

 METHODS OF SUPPLYENG HOR\&ES FOR THE CAVALRY SERVICE; WITH sUGGRSTIONS'FOR THE REMOLNT OF THE FIRST CAVALRY.-I.leuten-

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HIGII EXPLOSIVES AND INTRENCHIN(i TOOLs TN THEIR RELATIONS TO CAVALRY.

By Cambin Withay d. REach, Thimid Cavalhy.

IN order that our cavalry may fulfill three of its most important functions in war, an additional equipment would seem to be not only desirable but absolutely necessary. The uses of the mounted arm referred to are: 1st. The holding of an important defensive position until the arrival of our infantry and field artillery (horse artillery would usually accompany the cavalry); 2d. Toassume successive defensive positions beyond a retreating enemy or as rear guard during a retreat of our own forces. thus compelling the enemy to deploy and attack; 3d. The quick destruction of masonry or iron truss bridges, canal locks, railroads, tunnels, reservoirs or telegraph lines.

These rarious uses of cavalry are contemplated in several paragraphs of our Drill Regulations, under "Employment of Cavalry," which read as follows:
"§969. To occupy distant and important points and hold them against the enemy until the arrival of infantry. During orereat to offer resistance to compel the enemy to deploy, thus gaining time.
"§970. In the pursuit a portion of the cavalry may be dis. moninted to take up and strengthen positions on the enemys line of retreat, acting as a delaying forge while other portions go farther on and take up other positions. When a delaying force is compelled to give way, it is mounted and taken to another position beyond those of the delaying forces tha, bare preceded.
" $\$ 973$. Raids.-To threateh, interrupt and destroy his rommunications, to destroy his dephts and source of supplies.
, Drill Regulations further stale that these operations should not be undertaken with a smaller force than a regiment or a squadron.

In the event of our own natign becoming involved in a war, that combatant who is best prepared and moves first has a certain great advantage, physical and horat, poer bis opponent. The first consideration in which we of the cafalry would be ritally interested. would undoubtedly be to quickly secure and hold certain advantageous points in the enemy's territory (the location of which are well known) pending the arrifal of sufficient reinforcements to hold them; the second would probably incolse the interruption of certain important lines of suppl| and communication. To accomplish the first successfully an infreaching tool of some description would be an important addition to the equipment; for there is no difference of opinion as to the inmense adrantage afforded by well made shelter trenches when a body of troops comparatively weak in numbers are to act solely on the defensive. As for the second. the result of a raid in the ricinity of an active enemy, in so far at leant as demolitions are concerned, would be more than problematical without a supply of high explos|res and an accurate knowledse of how and where to use them.

It is with the desire of inducing a discussion on these important points that this article is written

With all foreign nations it if a maxim that infantry should be equipped with some form of ligft intrenching tool carried by the soldier, nor is their cavalry entirfly exempt, although the carrying of an intrenching tool by the trpoper is the exception and not the rule. The objection, and a sound one too, is made at the' start, that our cavalry horses have enougt to carry already without the additional! burden of even a light pick or shovel. This is admitted. The same objection applies to the carrying of high explosives by the trooper, so that the first requisite (assuming without further argument that the equipment mentioned is nocessary) would spem to be a suitable light cart or an aparejp adapted to the purpose. Whatever form of cart or wagon is used for transporting ammunition, it
call in all probability be improvised for the tools and explosires as well, but the trouble begills at that epoch common to all rapid and long continued caraliy marches, when the wagon train cannot keep up. and the expedition must proceed with packs. The explosives can be readily packed in the same manner that ammanition boxes are, two to a mule, but only those who have experienced it know how exasperating it is to pack any considerable number of shovels, picks or axes on the ordinary aprarejo. To obviate this a specially derised pack saddle, somewhat on the plan shown in the cut, misht be gotten up, which it is fhought would fultill all requisite conditions, relieve the trooper from carrving additional waght, be quickly arailable in case of need, and be always up with the column, whether

mounted or on fiost, for a mule can be taken wherever a footman (ant aro. One pack mule asuming the weight of eargo to be only 150 poumds. can eary twenty-four short hathlled shoveds and twelve piake (the handle of the latter reduced eight inches in length). or equipment in that line sutficient for a squadron. The adrantage to he gatned in weight by carring a light intrenching tool wouht not (ompensate for the immense adrantage the regulat sized tools have in litting capacity and ease of handling. Before pawiang from this branch of the subject to that of high explosives, it is to be noter that while our troopers are sufficiently expert in handliner the pick and shovel. their officers will be looked to for such knowledge at how, when and where to lay ont hasty intrenchments. that the labor expended may be utilized to the hest adrantage. Soldiers will stand physical hardship to the verge ot emblarate mocomplaningly if
they believe their labor is needful and properly directed, and wot otherwise.

Conceding then that our troopers are sufficiently expert with in. trenching tools, and that their ffficers are fully qualified to direct them, is it not, on the contrary, an indisputable fact that the handling, care and use of high lexplosives is becoming one of the lost urts among us? Should we not as a body turn our attention t. this important subject, instead of waiting till circumstances athl ignorance compel us either to takp unnecessary risks or to use usele.s. caution, which latter under sombe conditions might be equally as fatal? Our motto should be, "Faniliarity with and a practical knowl. edice of whaterer pertains to the cavalry arm." Suppose, for "x. ampld, the brigade or regimental commander is ordered to destrey a certain buidge or culvert in anf enemy's country. Its importance and the time necessary to replade it would very likely be propir. tioned to the care with which it would be guarded, so that a fisht for its possession would be one of the probabilities. The tince gnarding the bridge being intfenched, the brigade commander might decide that a stormy night would afford better chances fon success, in view of the fact that all he requires is temporary posw sion. :Haring obtained possessidn, the work of destruction is but the oucupation of a few minutes, provided he has the proper explosives. Gunpowder under the chrcumstances would be well nish useless owing to its great bulk as kompared to explosive effect. (ian cotton or dynamite in sereral separate charges fired simaltaneonly would be absoluiely necessary unhess chances of failure are to be incurred. To explode several chartes at once makes an electrical ax. ploder an absolute necessitj. The entire operation as to hamding the explosive, properly placing it and detonating it could be quickly learned; but the lack of this little knowledge might prove fatal to the expedition. Lack of opportuhity, of course, debars most officers from acquiring this knowledge, afd will continue to do so until the high explosive, whatever it may be, is supplied to regiments an other necessary material is.

To examine into the details of the various explosives, an regards their keeping qualities and care required in handing. as well as their relative strengths is believed will be of adrantage in decidit,g which of the many is best hdapted to our needs.

Explosires are classed under two general heads of mechanical mixtures, such as gunpowder; or chemical compounds, such as sun cotton, nitro-glycerine and dynamite. The first or weaker class are slow burning mixtures, their effect being to rend or tear apart what-
ever confines them: the second in which ignition of the entire mass may be said to be simultaneous, has a whattering effect on objects in rontact. The common and apparently mysterions effect of the latter class of explosives acting downward when in the open air more violently than upward, is explained by the force of the explosion taking the line of least resistance the weight of the surrounding air actaally offering greater resistance to the intensely violent shock than the more solid mass below. In powders the combustion is progressive, but in the chemical compounds the ignition is instantaneous throughout the mass, so that the intial pressure is the maximum one.

For reasons at once apparent, chemical compounds are the hent suited to military work involving demolition: the effect desired is to shatter not rend, while at the same time weight und bulk are mreatly in its favor.

The composition, keeping qualitior and explesive cffects of common gunpowder are too well known to be referred to. whereas similar data as to the so-called high explosives are more or less of a mystery to our mounted service, for the very simple reason that we are nerer required to hadle or use them.

The familiarity of the miner with his sticks of dynamite. fostered by daily use year after year, engenders in him a contempt for the few ordinary precautions lad down for its handling and care: he continnes to thaw it out in his oven leceause be has done so scores of times with perfect safety, until finally amother addition to the long list of accidents fills the nowice who reads of it with a greater dread of the stuff than ever. There is danger in handling dynamite: there is abo danger, probably equally as great, in handing small arm fixed ammunition with its fulminate of mercury primer in contact with the powder, and yet who ever gives the later a thought. It would seem the policy of wisdom to require at least the offieers of our mounted service to familiarize themselves with the handling. care and usefulness of the more common nitro-compounds, so that this essential to a perfect mounted service will not have to be entrusted to eivilians. Telegraphy among our officers has been more or less of a fad for the past fifteen years, and yet. in the event of war, our government could hire a thousand skilled civilian operators where it could not bire ten men skilled in handling high explosives and using them intelligently in demolishing railroads, bridges or canal locks.

Sitro-glycerine, which is said to be the most powaful explosive known to man, results from a reaction which takes place. when
glycerine is subjected to the action of nitric actd; it has eight times the explosive force of an equal weight of gunpowder, and may be fired by detonators or blasting caps, they being immersed in the liquid. Pure nitro-glycerine is pot affected by friction or ordinary percossion, although it may be exploded by a violent blow; if it contains any free acid, decomppsition is liable to occur, and this tendency is increased in hot weather, with liability to violent explosion; it is safest for bandling when frozen. The presence of free acid may be very readily detected by litmus paper, but owing to its liability to this decomposition, and the fact that high temperatures and rough handling may often occur, this compound is undesirable as a military explosive.

Alied to nitro-glycerine chemically, but entirety different from it in appearance, is gun cotton. This is made by dipping dry cotton into a mixture of nitric and sulphuric acids and afterwards washing thoroughly in water. This explosice having been adopted in 188.3 by our navy as a service high eyplosive. in the form of compressed disce, it was decided to manufacture it at the U. S. Naval Torpedo Station, so a plant was established there the following year, and now every;ship in commission is supplied with it.

Gun cotton in its natural stathe differs little in appearance from ordinary cotton; it burns th the air with a flash, but does not explode. Sbells filled with comprossed disces have been fired from a twenty-four-pounder guin againat a masonry wall, shattering the shell, but failing to explode the wan cotton. Dry dises of the cotton burn slowly, and a we: one, if placed in a fire, will burn from the outside as it gradually dries. It कtated that at the Naval Torpedo Station as much as 2,000 pounds of wet gun cotton has been put into a bonfire, where it was slowily consumed.

Gún cotton, in disc form, is pheked while wet in cans, which are then sealed. In this condition, providing of course the proper care has been exercised in its manufacture, it is probably the satest of all high explosives. It can bd raised to a comparatively high temperature without harming it, and water is a perfect protection to it if kept in the dark, as in thejpacking cans. Freezing does not affect it in its dry state, and the freezihg and thawing of wet gun cotton. while somewhat reducing its usefulness, in no wise increases the danger of handling. Gun cotton is readily detonated by means of a primer; the explosive force when wet being greater than when dry, it is necessary in the first finstance to have a small quantity of dryt in contact with the primer. Gun cotton has about twice the
explosive force of gunpowder when lwth are tamped; untamped. it has about four times the force.

Much ancertainty has prevailed, up to quite a recent date, as to the keeping qualities of gun cotton. The Austrian government, after using it twelve yedrs, finally rejected it on account of its instability, and some of the other powers did the same. The reason for its deterioration is now definitely known to be due to its former method of manufacture, whereby sote of the free acial still remaned in the compound. This defert is now entirely done away with in the prolonged and thorough washing siven the cotton after it. teatment with the nitric atid.

Tonite is a gun cotton powder mixed with nitrate of harium It is whitish in appearance and is put up liy the Tonite Powder Company, of San Franciso, in cartridges weighing from a quarter to threequarters of a pound each. the covering being coated with paraffine to render it water-proof. It is said to be as safe ar the gron cotton, from which it is male. and is not sensitive to pereus-ion or friction. Experiments with it show that it will not explode upon the impact of a service rifte bullet, and that it requires an untu-ually strong detonator such as the tonite cap tumished by the company. to explode it. It is said to resint to a remarkable degree the ex tremes of climate, and is about tour tiths ar powerfal as sum colton.

The various forms of dymanite with which the market is flowled, such as giant powder, atha powder. dualin. rend rock. toreite, explosive gelatime, etc.. are all made by the absorption of nitro glycerine in some porous substance, the explosise mot heing turned into a solid, but merely held in the pres of the ahoment liy the force of capillary attraction.

The absorbent originaliy used was kicoelgular. an infusorial earth commonly known as tripoli or rotten stome fow, many other absorbents, such as charcoal, canmel coal. wowd fibre, sawdust, white sugar and chatk. have been adopte, on account of some real or fancied superiority.

Dyamite No. 1 is a mixture of one part kieselgular and three parts, by weight, of nitroglycerine. It is a gramular substance, of a gray or reddish-brown color. athl when properly mate has no tendency to "leak;" that is. to exude nitroglycerine in a liquid state unless subjected to a very high temperature. Dynamite freezes at about $41^{\circ}$ F., in which state it is almost impossible to explode it. Small quantities of it in its ordinary state will burn in the air without explovion, while a fire in a large mass of it almost insariably cansw detonation. Most of the accidents with dynamite oceur in
thawing it out after freczing，it being rashly assumed that becatuse a stick of it can be burned with reasonable safety in the air．it will do no harm to beat it before q fire or in an oven．The thawing may be done in a warm room or in a can immersed in hot water with perfect safety，but the other methods are always dangerons．

A consensus of opinion ampng scientists，makers of this cex－ plosive，and transportation complanies，warrants the conclusions that dynamites are the most powerful of all disrupting agents now in general use；that they are the safest of all explosives both in tratns－ portation and use（many time safer than gunpowder），and that there is no good reason why，under proper regulations，they shonld not be transported as freety in public conveyances as ordinary mor． chandise．

The approximate relative strength of the explosives described is as follows：

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The manner of exploding these compounds is invariably by means of 小efonators．whimb are copper tubes of allout twire the

thickness of a friction primer，flled with fulminate of mercury． The ordinary blasting rap or detonator（Figr 1）is fired by a fuse and contains three，wix or fine grains of the fulminate as desired． The electrical fuses and desonatons are so constructed that ignition takes place upon the passage of a current of electricity through a
tine platinum wire，around which is wrapped some gun coton （Fig． 2 ）．The means now employed to furnish the current and the one giving the surest results．is the magneto machine．The Laflin d Rand exploder No．3．，shown in Fig．3）is the variety used at the Infantry and lavalry sefool．It is cased in hand wood：is 1：3xsit whes and weighn eighteen pounds．When the charge is to be fired the connecting wires are attached to the two binding posts on top of the box．the hadle is then drawn out to its full ex tent and thrust downward with a rapid motion．On reaching the bottom of the bos，the current generated by the small dyamo in side is sent through the wite several humdred tiet of which have been unreeled．with the resent of exploditig the detonator and therels． the charge ：thin machine will explode twelve detomatore simalta－ neously．

As 10 the choice between a fuse and an electrical mathine for ex－ ploding the detonator．there can be no difference of opinion，but there may be as th the explosive．Dyamite being the easiest to obl tain，as well as beind cheap and are in action，has much to recom mend it but it $i$ thought that gim coton should be the explosive alopted on accout of greater strenght its speater satety dyamite
 temperature required to treze the water packines，and the tact that the C ．S．Saval Torpedo station could easily furnish it in such quantities as our cavalry might require

As to the adrisahility of equippine par cavalry in time of peace with the weapons it will have to nse in war．there can be no ques．
 nations mtay supply useful ourgentions：

| fravit． |  |  |  |  |  |  |  |
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| Battalion of Chasseurs．．．．．．．．．．． | 15： | 14 | 310 | ．．．．．．． | ． | $1{ }^{1}$ | 1 |

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：Ordinary camp equipment took not incluled．


In Bavaria four men per squadron are equipped as pioncers. one of whom must be a carpenter. They are placed in the reat ratik. and, if necessary, a fifth, is added to hold their horses. Their atms. consist of swords and revolvers. The tools with which they are provided are distributed as follows:
Pioneer No. I.-Ax in case; bag containing one chisel, one pair pincers. one auger and bandle, two cimlets, one measuring ruie and ,ight feet oi rupe.
Pionetr No. 2.-Shovel and hand saw in case; bag containing one file, tw.. clamps, twenty spikes and eight feet of rope.
Pioneir No. s.- Shovel and hatchet in case; bag containing one clamp. tell spikes and thirty-two feet of rope.
Pioneetr No. 4.- Pickax in case; bag containing one clamp, ten spikes aml thirty-two feet of rope.
In the Saxon cavalry six troopers per squadron are equippe. and trainet as pioneers, being armed with swords and revolvers.

Foreign services, profting by an experience learned by another. have been quick to grasp the immense adrantage a raiding column posseesses in the earliest stages of a war. To carry out the idea to its fullest extent, their cavalry is prepared by training and by equip. ment to make demolitions and interrupt communications in the quickest and most effective manner.

In the German regulations for the employment of cavalry in pioneer duty; occurs the following:
"The various daties imposed upon cavalry in the field demand that it should be trained toa high degree of independence. Dependence on the other arms ctrecks rapidity of action and invites surprise. thereby depriving cavalry of an important factor to success.
"Caralry must be able to prosecute works of demolition and destruction in connection with railways, telegraph lines and other means of communication. As such operations will sometimes have to be carried out in presence of an enemy. and, as ageneral rule. in a very limited space of time, thorough previous training will be indispensable.
"The pioneer detachment attached to a cavalry division will (wnsist of one officer, one sergeant, two corporals and twenty-seren pioneers, of whom eighi will be blacksmiths, eight carpenters, four masons and six boatmen. They will be provided with portable intrenching tools, which as a rule will be carried in carts. Additional intrenching and other tools, explosives and telegraple material will be carried in the store wagon of the detachment.
"In the latter half of June or during July of each year one officer or non-commissioned officer with two or three pioneers is to the attached to each regiment of cavalry as instructor.
"All officers and non-commissioned officers of cavalry must familiarize themselves theoretically and practically with the sulioct. Of the men as many as possible should be instructed.

- Each cavalry division carries in its ammunition wagons $11 \%$ dyamite cartridges, together with sledges, crowbars, wreuches. ett."

As to the best organization for our own service opinions will differ. The idea of the writer would be not to depend in any manner upon the battalion of engineers. (the real pioncers of our army), and not to assume any of their legitimate and indispensable functions. We must use high explosives, and it would reem that economy, if nothing else, would dictate (or authorize. if the permission were asked), the equipment and training of say. one subaltern. one non commissioned officer and four privates in each squadron of cur ten regiments. Twice the time spent in signal drill would herp a detachment in training.

The idea proposed would be this: At every post garrivoned by more than three troops. have a permanent detachment for earh squadron, to be called "The Pioneer and Signal Detachment." consisting of one lieutenant, one sergeant and four privates, all except the commissioned officer to be replaced at intervals of four months. The detachment should be armed with revolver only, and should aceompany the squadron on all marches and maneurers. being excused from drill, guard and fatigue. A pack mule with special aparejo should be furbished each detachment for the purpose of carrying intrenching tools for the use of the squadron, as well as a supply of gun cotton or dynamite. The kit of each pioncer should contain a pocket relay with insulators for cutting in on a working line, a file, wire nippers, wire cutters, auger and handle, measuring


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ORTY years ago the definithon of Amonor as siven by Webser was. ..a man who fighte inditierently on borseback or on foot. This definition did mot ruit the bold dragoon, and ane eftort was made th hate it ehanged in subsequent editions of the dietionary and so we tind in several of the late editions this definition: . Drasoon-A soldier who is taught and armed to serve either on horseback or towt as oceasion requires." But the name dragon, whear those who sered in the monnted service under that appellation, has heen -aperceded by the more appopriate name of cavaly

The cavalry arm of the service was not bought to a very high tate of efficiency in the eaty vears of the war. I refer more par. tienharly to the volanteer caralry. In datil there were in (ieneral Bedad army quite a number of resiments. One could hardly call then cavalrs. but rather resiments of loval, patriotic men, asso ciated with an equal number of horses. Seeing this unorganized body. I spoke to General Bofat ahout it and suggested that I be assigned to the command of the mounted fince of his army: that I thonght it needed the attention of some one familiar with the dril and duties of cavalry. His reply I whali never forfet: "The car alry will not perform any conspicuous part in this war." This seemed to be the sentiment of all army commanders, so this state of thinge continued. Regiments were practically broken up, and the companies assigned to escort and courier duty. In this way little opportunity was offered regimental commanders to drill ath dis. cipline their commands.

It was not until 18tit that General Sheridas was placel in com. mand of the cavalry of the Army of the Potomac. His experience as a cavalryman was limited by a whert service with a Michigan regiment, but be soon developed the fact that he could fight on foot or horseback, as occasion required. When his assignment was an-
nounced, every one knew that Phil Sheridan would not command a force of which no tighting was expected. He at once cousolidated the companies into regiments, which be formed into brigades and divisions, placing these organizations under such enterprising leaderb as Averile, Custer, Wilbon, Merbitt, and others, and soon had a body of cavalry that was seen and felt in every engagement.: I aminclined to doubt if there ever was a cavalry command superibr to Sheridan's, under the gallant leadership of such men aI have named.

In the Weat the wants of the caralry were neglected. In many cases the men were poorly mounted, badly armed and equipped, and yet it; is astonishing what good service it did under Stonemas. Stanley, Mitchell, Lona, Hatch. Elliott, Kilpatrick, Minty, Wilder, and others. General J. H. Wilson was ordered West from the Army of the Potomac to assiume command of all the cavalry under General Sherman. He wab young, active and ambitious, and soon did for the Western caralry What Sheridan bad done for that of the: Potomac. The battle of Nashville and the retreat of Hood gave Wilsom a fair opportunity to show what could be done by calalrg when properly haudled, and every one remarked the great im. provement in the fighting qualities of regiments when brought together: The war terminated so soon after this battle that little time was allowed Wilson to perfect theidiscipline of his command. Had the wigr continued several yeàrs longer the cavairy on both silies would bave been brought to a much bigher state of efficiency and acted a much more prominent part in every campairn.

A few days since I was asked the question, "Whom do you think was the greatest cavalry leader developed by the war? replied, that is a difficult question to answer, for the reason that all men have partialities, farors and affections, and are liable to be influenced thereby. If I could direst myself of all these, I would answer, Fonzeat. He began without experience, and with limited education. He had to organize and discipline the troops under him without a Subsistence or Quartermaster's Department. He marched and counter-marched, living on the country, and when he was in a destitute region he and his men sabsisted on loyalty to the South. He was always successful in his battles and combats. and as soon as one, was over, with rapid marghes he was heard of on other fields. It is asid that his sucoess w-us so great that a number of army commanders summoned him to their presence to learn from him bis mode of warfare. His reply was, " I always try to get the most men there first." Such strategy will win every time.

## NAVICLLAR DISEASF

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$0^{F}$all the diseases which horsettesh is heir to. there is perhaps none which is so litte understond ar maricular disease. There is abo. I am led to believe, none which is more common. The rarity of an arowed case of mavicular divease is. I believe due to the fact that it is so generaliy misunderstond, and aloo the hesitancy on the part of the reterinarian to pronounce it a trouble which he realizes be is unable to cure. He reserves the fatal diagnosis as a last resort.

- During a tour of duty in this dity Fout Wiano. Ind.) it has been my good fortune to form the acquaintance of all eminent veterinarian, Dr. Menry A. Rean. to whom I am indebted for the facte contained in this article. Early impresed with the prevailing ignorance of the causes of lameness in the horse. Dr. Rean has, during a period of over thirty years, devoted himself largely to a determination of these causes. with the astonishing result that he finds nine-tenths of all horses lame in the fore legs are suffering from navicular disease.

Before proceeding to the pathology of the diseare it will the interesting and instructive to glance for a moment at its history.

In Percivalis's "hippopathology." Volume IV. Part I, "Lame. ness of the Horse," he says. speaking of himself: "I never myself heard of the navicular disease or navientar joint divease so mach even as mentioned before Mr. Teaser published his papers on the subject.* My study of veterinary science as a pupil commenced and ended under Protessor Coleman: and certainly never be my teacher, that I liare the most distant recollection of was the word "uaricular," in connection with or reference to disease once mentioned. I remember that the I'rofessor attributed foot lameness in general either to disease of the sensitive laming or to contraction of the boof; and in my notes of his lectures I tind this memorable

[^0]passage：－In nine cases out of ten of what are called grogey or foundered horses，these parts（the sensitive lamina），in consequence of ebronic inflammation，have become altered in structure，effusion of lymph or of bony matter taking place．＇＂

It is known that Maorcropt recognized the existence of the disease under the term＂coffin joint lameness，＂and practiced the operation of neurotomy in the early years of this century，but lett England for India withont imparting his knowledge to any one． At the time of the publicution of the Tcrner papers above referred to，the prevailing cause of lameness was supposed to be contraction of the boof．This diagnosis，Mr．Turner was led to helieve，was incorrect，and to him must be given the credit of the re discovery of naricular discase．After entmerating the causes which led him to search for some othertheory than contraction of the hoot．Tirner says：＂By dissection I bave diskovered another，and to the best of my knowledge，it is a disease which has never been described by any author．The seat of it is ip the navicular joint of the foot：I mean the joint formed by the navicular bone and the flexor tenton． where the tlexor tendon wlides over the navicular bone．＂
pathology of navicilab disease．
Percivall bays：＂The parts diseased，in casen of navicularthritis （nayicular disease）or grogginess，are the under surfitee of the navicular bone，and the upper one of the perforans tendon．It will be remembered that the inferior or posterior surface of the navicular bone is covered with cartilage for the purpose of articulating．I．e．． forming a bursa or joint with the opposing tendon of the perforaths muscle，which，in the motions of the bone，upward and downward． plays over it something like a rope over a pulley，the surfaces of the bone and tendon being in more complete coaptation from the cir－ cumatance of the bone having a transverse eminence or crest across the middle，to which the tendon is fitted by a corresponding exca－ vation in its substance，which hereabouts is rather of the nature of cartilage than tendon．＊＊＊Now，it is either the said crest across the navicular bone or the opposed consacity in the tendon， or both together，whick show the earliest signs of disease in navicular－ thritis．＂＊Such was Tcener＇s acceptation of the pathology of the disease，and bringing befbre bia class one day a horse affected with navicular disease，be explained to them minutely the morbid con－ dition in which the surface of the navicular bone should be found， when，on destroying the horse，the surface of the bone was found to
be perfectly heathy．His disappointment was so great he reased teaching the pathology of navicular disease．and died witlunt learning how nearly he had arrived at the proper solntion of the difficulty．

So tar as I can learn，it remamed for lor．Read，abowe men－ toned，to discover that the original seat of the disease was mot in the surface of the bone at all，but in it center．on in the calmellat Had Terner but sawed through the navicular bone which so dinap－ peinted him．he would have undoubtedly found the intlammation existing in the cancella．The true pathologe of the di－ease then is as follows：Whaterer be the immediate canse the trouble starta with congestion of the cancellated structure at the interior of the bone．Inflamation and entargement of the bone follow．In one specimen in my possemion the color of the bothe interine and ex－ terior hav been changed to a dinge hown by the whscotion．whle as yet the surface has not been abraded at all ：in tact，the dinalae may run tor month b betiore it reaches the surface of the bone．When it dues reach the surtace the morbid apparameon prewedted are uleration or caries at first ittle cminencen the size of millet seeds are obsersed on the under surface of the bune ha it pros． gresese the bone looks wormeaten，and bater．hole will be found in the bone，into which．in some cases，the tewdon will be tinund to have intruded．

It was this last phase of the dinease with which Terser wat adquanted：or in other words，moly its adrathed stare．Further proof of the correctuess of this pathologey will be riven in the dis cussion of treatment．The symptoms indicatice of navicular disease depend upon the character and degree of the lamenese and the con－ dition of the foot．The approach ot the dienase is ith some canem rery slow eren stealthy：in others．very rapid．The horse may appear sound on being led from the stable and on working awhile be will seem to favor one or the other of his fore feet．Examination fails to show any exterior cause of lameness，and a rest of a few days may cause him to appear sound again．On returning to work the same thing will appear again；this time probably more clearly defined lameness．A tew days of rest again will appear to restore him．In this way，if the work is easy and not on hard ground， weeks and even months may pass before the horse is pronounced decidedly lame．The veterinarian will now be called in，the shoe removed，and the foot examined by means of the drawing－knife． It may now be found that the sole cuts dry and hard，and some con－ traction of the heels may also he obserred．All hoof signs may，
however, be wanting until the disease has passed the first stiges Mr. Turner recommends that both hoofs be pared out in order that any differences between them phay be discorered, as it is but ratw that both feet are attacked primarily at the aume time.

The pain in a foot having naticular disease is probably more or less continuous, and it is but natural that the horse should adrance the lame one slightly, theroby taking the weight from it and reducing the pain, "pointing the foot," as it is called. If he does stand in this way, the trouble is undoubtedly in the foot, and if so it is safe to pronounce it navicular disease. I have seen a horse that was suffering from this disease keep constantly changing the foot on the ground; first holding one foot up and then the other, and endeavoring by this means to ease the pain which he was suffering in both feet. He had bad naricular disease for years, was constantly lame. and the owner did not know what the trouble was. To quote Dr. Resp, "Heat of the foot, though one of the ordinary eymptoms ot ${ }^{\text {. }}$ naricular disease, will not be present in all stagen of the lamenes. When a horse, for example, falls suddenly lame, the cause of lame. ness not originating in inflammation, which as yet has not had time. to set in, it cannot be expected that heat should be present. Neither will it be found in certain chronic stages of the disease, wherein lameness is rather the consequence of altered structure than of in. flammation."

Careful inquiry should be made as to whether the present case is the first, second, or third attack of lameness in the same foot, and whether or not anything of the kind hasever appeared in the other foot. "This is by far the most important of all symptoms. The vers eircumstances of relapse, from the tendency of navicular fisease to return, adds the most important weight to the consideration of symptoms. Percivalle says: "Were a person a hundred miles off to write a letter saying, My-horse goes lame and I can discorer no cause or semblance of caune for the lamenesw there is nothing to be observed to account for it. Once or twicefte has through repose becomesound again, though lameness has hot tailed to return every time he has returned to work; I would, without appreher. sion of being mistaken, set it down as navicular disease. The treatment usually employed is to hare the foot immersed in a warm bath, the immersion being succeded by the envelopment of the fort in a hot poultice. By auch treatment and a week's repose many have been rcstored.'

I now come to the imporiant part of this paper, namely, the low operation of neurotomy, practiced entirely by Dr. Read, and when
 To explain the ratimate of the operation it is meesesary to return asain th the structure of the bone. As ahraly explained the diwase sarts as a congestion and comequent intammation and ulcer- . ation of the cancella or interior portion of the bothe. This portion it the bone is rich in neve fibres and iv the seat of the extremity of a braneb of the metacarpal newe. The path promedued uge ureation amonget this nerve fiber is probably smilar to that experienceid hy man trom at ulecrated tooth. The horee mentine just now as continually changing the perition ot hi sect sate me the imprewion that he wat in constant path. hiv whole apparamee indieatille as much. The rerg ulceration whiah ransen pain. lowerere in at the stme time natures eque the the trouble it tomb Io destrof the


 But before batures cure has been completed. the wheration has eaten through the surtace of the beme and hestresed it. The reant in that the tendon insteat of having a mooth, lubricated -urtane to

 in the lables of the bote and the result is stiffores in the mosement
 whre of supply of the nerse tiber of the cancella, the procere of
 by the operation of meurotomy , in whe hat hramet of the metar
 main nerve

The diseovery of the operation of ne urotomy is in me wise chamed
 stated What is however elamed the him, is the diservery of the correct pathology of the diseane: and the examination of "pwarts of one hundred navicular bones has convilued tue of it trath. Its. trath is moreover shown be the phendid rante ot hivoperation. In thirty years of practiee he has operated whetween tive humtred and a thousand horses. in the great majority of amon with a return of soundness to the horse. Facte speak for themselves. The startline discovery to me in my work in connection with this subject is the alarmingly large number of horses which are sutfering trom this diseane. In a lot of sixty navicular bones. brought in by the person having the contract for destroying the dead animals of this city. we fiound searcely any that were sound. Almost all had the disease to
greater or less extent. It was this that led me to make the opening statement of this paper, that I believe navicular disease to be the most common cause of trouble in the horse. The cuts kindly made for me by Mr. F. Halvoyd Laybert, show cleayly the stages of the discáse as described.


CONVERS.ITION ON CAV.ALRE: BY PRISCE KRAFT ZE HOHFNLOHE-INGELFINGEN

TRASCLATED FROM THF CERMA.


## 

 OF THE REMOTNT:If. What do you think is the best time tor pasing to the trath. ing proper of the remounts?
$\therefore$ As soon as the remountmare erabually gaining strength, whey the preparatory aids. seek the bit eontidently with head straight to - to the front. and retain the texling ot the hit in all the natural paces, trot, walk and mallop. Then vou may berin to work the hindhand more
11. Since the remount are tansported by rail. the reriments of most eorps are them as early as July or Augast. The training proper ata then begin by the tirst of October
$s$. It I were to name a specitied date. I should be contradicting myself in the eave of every single horse, and violate all the principles of rational riding. In the first place, the horses are not born on the same day. The remounts are therefine not of the same age mor in the same stage of bodily development Some horses develop more rapidy than others. Differences of huild require some hormes to be worked in matural gait, longer than others. It is therefore impossible to state on what date to pass with a remount squad to the training proper, the date for each borse being different: we can only say when each individual horse is ripe for trainimg.
H. That each individual requires different treatment is plain to any intelligent rider. But I should like to have your opinion at about what season of the year the arerage remount arriving with the regiment in July is sufficiently progressed, harrins. of course. exceptions in individual cases.
$\therefore$ I must decided!y decline to name any particular season, not
even within the very widest limits. With each remount gon butin the work of the hindhand, i. e.f the passing from the natural to the medium gait, the training praper, when the remount is read- tor it. To recognize this time is the business of the judge, and, in wur military training, of the instrustor's eye and the ritler's feeling. with which later the instructor should come to an understandine by questioning him. Nor must gou understand me av saying .e To day the training of this or that remount begins," and that from thi dity on I put aside all natural gaits and preparatory aids. On the cond trary, you believe the harse hats sufficienty progressed. You at tempt to bring the hindhand well under. to raite the forehame the nose held low. If unsuccessful you have warning that you were mistaken, and have to return at once to natural gaits and preparatury aids. With our good-natured horses, however, you will probably succeel at once. The danger finder athd horge lies in this: that the former, rejoicing oved his sulcess, will soon demand tom much in quality as well as in quantity, i. e., he at once rases the fore ham! too high, and urges the hindhand too much; rides in the first days too long at a time at gaitsapproaching the mediom ones, and callupain to the horse. Durfing the surceerling dayt the horse reviote. having suffered pain in the stable, becomer restife and bees it, appetite. It is time then to returd at onece to the natural parees.and to make moderate demands|only, for some days. A good experienced rider, whon makes no misakes. will teach a horse perything without worrging him. He never settles on a certain task for cach hay: The horse learns withoud notiring that it is doing anything unn-mal. Both horse and rider are unawale how it comes that all of a sudhen the Gordian knot is undone.
H. My question as to the proper time for berinning, is prompted by the division into peridts with which the second part of the riding instractions begins. There it fis assumed that the first training of the remounts begins on October 1st, though, since they arrico wo early, it might begin in July or August. I thought that yon would procued more slowly tha the riking instructions, by beginuins the training proper about Octuber ilt.
S. It should not be forgoten that the avenger remount is a quarter of a year younger in Julf than in October, aum lews developeid physically, and that less should be demanded of it. It is possible, of conrse, that sometimes a remofnt may bave sufficiently progressed by Oetober to allow of increasing and shortening of the gait. But this will certainly be the exceptipo.
H. But yop can not delay long in the fall in according to the
division into prodod, sou are to teath the medium trot. fav twot. volts with turning. etc.
s. Sothing has contributed su much to the grose misunder. stanling of the entive meaning of the second part of the riding instructions as his division into periods with which this part begins. It in merely an illustration toot a requlation.

1f. How "an a riding instructor inter trom the ridina insorar tion- What is meath an recrulation and what a illustration?
$\therefore$ From the entire sense of the riding instractions in harmony with the correct rider tieding. In the tirst plate plase note that the

 Aurns. ath that this time shomble betized. The division into perind emk with Mareli of the secoml sear. What tromp come
 thomashly taited on the lat of April: What resmental comb. mathder would allow that? A caretul leater, with a kownhedate it
 put them in the ranks it entirely develngent taking for the larse


 to anard the young amimatio from the prepatation for the inepertion. The inspector can do much in eontenting himatif with what the

 the ranks. Thn- the real time of taininelans two geare in-teal of eighteen months and with some home two geare and a quater, followed by sis momtho within which the tranine of the home wat be suppleme.inted.
H. Will it be powibhe wate mathy of the ohl rembunt- it summer when the squabron is required to turn out tor the harer summer exercise with a certain mumber of tiles?
$\therefore$ There are mathy opportantion tor sating the ofd remounts durine the mancusers The quatermater. or some men met riding in ranks, are put on them. It is preferable. however. to drill ith peace time with a few blank files rather than to ruin the remounts. 1 should preter not to turn out. before fall, a single ofd remount for large fatigning exercises in peace time.
H. Wonld you leave then it the garrima?
$\therefore$ Certably not. March and change of air will henctit them. It is only from severe exertions that I would guard them.
H. There you are clashing with Schmidt, who demands that every horse be turned out for the large divisional exercises. and saya: "Those not in ranks fall to take part in the fight." He wants the number of riders and fles considered in deciding whether an attack was successful or not.
S. General von Schmidr whas one of our greatest. perhaps the greatest, drillmaster of recent times. He did great things in preparing and carrying out the pegce exercises of great masses. His demands on the rider in war are fustitied throughout. But I cannot accept him as authority on the individual trafning of man and horse in peace; he demands too much. As to the requirements of war, he is right. There it make no difference if the horses fall by the bullet or from exhaustion, if fonly the object in gained; but wen in peace time the bighest demand are made on the horses before fully developed and obedient, they ane ruined to no purpose. Siнmits. and still more those after him in the cavalry, who in part have failed 'to sustain his methods, afd seek to outdo him. break down half of the remounts. The thorse may not show it during the exer. cive, but will in the next few months or years. ff you make these demands ten years in succossion you will have squadrons of which more than one-half of the horses are ruined, $i$. e, untit fir war.
H. A squadron of full peage strengh can turn out for the summer exercises with eleven fles (among them two blank tiles): that is, eighty horses, not countidg the old remounts, without which the squadrou numbers 109 borsen Sume of the old horses are yoing to go lame, or bave to be spared for some other reason during the rery fatiguing summer exercises hence it would not be lung befiore you will hase to place some of the old remounts in ranks.
S. The more rationally and gently the remounts have been treated in the first two geara the better will they afterwat withstand the fatigues of the maneuvers, the smaller will be the number of old horses that fall sut from lameness on other callues, and the smaller the probability of thaing to use some of the remountof the current year. The more the horses while yet remounts are fatigued, the surer the foundation for their ruin whid, the somer they will in after years break do $n$, become lame, etc. It is better. therefore, to turn out for the maneuvers with a few blank filey during a few years, than to rujn a single remofunt prematurels. It was war, however, that I had chiefly in mind: Fould you rather take the field with a squadion ont hone but freth legs under its horses than with one of which half the horses are of doubtful efficiency in the field?
H. Do you mean t" le time demanded for training by you. fir Wwald break out dur
instance in summer?
$\therefore$ If up that time I have pared them rationally and curned them out in ranks occasionally only for exercise on days when the amount of work and the nature of the drill was not too much for them. I whall he able to ase them in war to better parpose than it they have been turned out tor all exereises, and have that had the seed of ruin implanted in them.
H. I wish to resert once more to the division into periods The riding instructions engoin in every line a sow and gradual pro. aressinth and yet it seems th me an though by this divinion iute periode so much is expected hat notremount is able to acomplioh it in the time allotted.
$\therefore$ You may judge by this that a rigid adherence to this division intu preriods is not expected by the riding inspuctions. So intedlisent rider will sacrifice a hairs breadth of the requirement - ruming hike a red thread through the riding instructions-of a gradual progrew in the taining conforming to the physical deselopment ot the howe for the mere purpose of tulfilling the letter of the divisinn inte promets. Adherence to the text of the riding inatractions and their purput as a whole, which is in perfect acoord with rational riding. -land be the guide. Rigid adherence to. the division into periods leads to the ruin of the horses. The precedure under the division into periods s, on the whole correct hut shonh be moditied an as ${ }^{\text {w }}$ -ait the case of each horse.
H. still it seems to me there is much that is in oprosition th rour principles. If, for instance in the tirst period, which. actording th your principles. should tior the most part be devoted to the mere preparation tor the training proper as we disenssed it the last time. pawing of corners changing corners across the hall. vole with turning turning on the torehand. fant atd medium trot. are to be prace ticel, these requirement- seem to me opposed to your principles.
$\therefore$ Sot at all. Passing corners and changing should be practiced in the time period, if as is assumed in the instructions, the onecessaty wil" of hall ridine is unarodable. Where this evil can be atorident. I need ont suffer ite resulting evil effects. Volts with turnind can soon be ridden. the ouly question being how. What else is the change of direction. under application of the inner leg for the purpose of familiarizing the horse with that application of the thigh which I recommend as preparatory aid. han part of a volt in turn ine? The same exercise at a bath which I discussed at the same
time, what is it but part of the turning on the forehand? If you were to begin with a volt of six paces diameter and an emtire turn on the forehand, you would not have my apprival, nor be acting in the sense of the riding instructions. With the fase and medium trot in the first period, it is the same. The riding instructions never contemplated thereby a perfedt fast or medimitrot, but merely an increasing and shortening of the gait, wach asi frequire at the beginning of the training proper for working the hindhand. Onty perfectly active horses are able to go a perfect fast and medium trot. Any good rider knows that, and it is to them that the riding instru*. tions are addressed.
H. All this admite of no qontroversy. But the haplese riditis instructor is inspected at the end of the first, of at any rate, of the second or third period, and he bexpected to show. and the horse th do, what is prescribed for these periods in the rifing instructions.
is. Where in the riding intructions do you find it stated that an inspection should take plade at the end of eqch perionl? There riding inspections at the onds of the periods are e disease with whirla oar entire cavalry is attlicted. The saperior artives amd demand. on the 1st of January this, on tile lat of May that. What how the riding instructor do? He lulla his remount squad to sheep athel hav to ${ }^{\text {go mechanically }}$ throingh the task prescrihed tor that period Volts. ete., and subsequantly side paces are protucem. but how? The best natured horses, whose konformation offyrs the least dithrulties, are phared in the lead and rear. for whateder happens in the middle is not so conspicudius. During the last month betore the inspection the work is confined to reeling off daily the reiguirements of the inspection. This consumes half the time of the training. In. stead of utilizing the entipe time for mang the horses effertive ting the Geld. Furthermore, the instructor, tho has exhibted his homes. at the end of one period, is apt to consider them so tar progreand, that ho passes on to the next, and no longer conderns himsilf with the more primitive exerclses of the former perfod. Which, in his mind, is a thing of the past; yet it is in the fense of the riding instructions, again and again to go back to the most primitive exercises when meeting with difficulties, which were comsidered surmounted because an error who nade and the forse adranced too rapilly. The instructor cares in the first place to come out well at the inspection. What becomes of the remounts after learing his hands, concerns bim little. The shirt is nearer to his skin than the coat. So you see what leads to precipitation in the training of the remounts, is the inspectional at the end of the periods and not the di-
vision into periods which is intended merely as an illustration and guide
H. I think the evil could be remored if the riding inspections were properly managed and. as proposed in my lettern on cavalry. would take place, not at the end of the periods. bat a few weeks be tore that time siving the inferior time to remedy the detecte pointed out to him.
$\therefore$ That would merely lemen the evil. It mast be rooted aut entirels. Every timal riding inspection is apt to lead to the beliet: that the horse or rider is "done." But in a certain sense horse and rider are never .done." for they can alway harn more, while. in another sense, the squadron is expected to be "done' at all times. Of what use is a system of riding which ran show its feat-in April only, and forget- them arain in the drill season? Of what use is a squadron which can hate oquadron drill only in May and dine. target practice in July, reqimental drill in Ausust, and manencers in September? May not war break out at ally seanon? Should mot the squadron be abe to drill at ally time durine the year? Why then the periodical inepection-?
II. Without control, machievement. Na the inpertion. an the work.
$\therefore$ Very true 1 take you at your word. As the inopection. ao the work. For this sery reawo mepections should not take place at the cold of certain perious fixed for each year. otherwise the exercines are so conducted that some ridiner can be exhihited at the final inspections. The inspections should be so made that the intefior will never kuow beforehand of the superior's coming. If the latter wante to inspeet the rithing of the remounts, he must min athow himself to be treated to a performance as a ballet. or a circus quadrille hut should be present haring the inatruction (whether durins the tirst, second, fourth, eighth or ninth period of the riding instrnetion, is immaterial) and must insist with iron rigor. that no more be required of any remount than it is capable of in view of its physical development and previous rational training. Thus the superior can exert an intelligent influence and judge the inferior by his way of imparting instruction. That once done you should nee how the coaching for inspection will come to an end.
H. But you must fis on oome date by which the remonat must be ready to be placed ill ranks.
s. No: No: The horse is placed in ranks when it hat grained full strength and is broken to obedience. Or do you want me to say for instance. on this or that day the horse must be phaced in ranks: by
that day it must have gained full strength and be rendered obedient? From the words "full strength," you will percedive that I would be saying something wrong. | Many riders forget that a horse sobedience and full strength stand ip close reciprocal relation; that full strength is promoted by long, rational training: that precipitate training is apt to be harmful; that only such hotnes can be rendered thoroughly obedient as possess their full strength, because before the development is completed they hare weak poihts which, if disre. garded, bring on obstinacy. The red thread huming throushont the remount training, should be that the trainino of each individual horse be as slowly proceeded whth as indicated by its previons exer. cises, conformation and development. and that be not placed in the ranks for all kinds of serpice until it is fally developed athl obedient.
H. Then you will not be able, ass a rule, to plake the old remount. in the ranks until after the great fall exercises, and you will have a remount here and there which peeds additional raining during the. following winter with the next founger class of remounts.
S. What harm is in that? As old horses they wifl remain ver. riceable all the longer, will be qrained all the better: so much che better riders will be trained on hem, because then the recruit will imbibe an all the better rider geling with the mother milk. wi, $w$ speak.
H. It is not difficult to see that the training will be much mont. perfact, if no time is fixed by which the horses must be rembered active, than when you are tied down to a certainkime. Hereatter I will ask my question on the further training with as little reference. as possible to the calendar. I phould like to know next whether. when you begin to work the bindhand, you whuld also begill to bend the horse?
s. Nothinx bends the horso better than the oringifig up of the hindhand in the active mediun trot. It prepares the bending throughout the horse's structurt. Bending sideward shoulid. how. ever, not begin too soon. Many riders fall in this error. It "kniebels" the borse and deprives it of the confidence in the reins which has been imparted by a rational working of the hindhand. It will creep.away from the reins.
H. You have already given warning that in beginning it there should be no attempt to bring the young horse forvard on the hindhand at a walk. The chief wotking pace for this purpose is the trot.
$\therefore$ And the gallop. I need not explain to you how in twith there gaits the hindhand is brought under.
H. So: The course of taining as outlined by you arrees too much with what my instructor Lavisess also prescribed. to need much explanation. He increased the natural gait be driving forward with the thigh and maxine the reins gradually at the same time. When the horse then begath to sock the reins. he make us endeavor to reduce the gat genty with the reins, gradually relax ing the thigh prossure at the same time. Ax monn as the horse deceaved its gatit, it wan again driven towad with the thighs. and the reins were relaxed. The aide thas siven altermately by thish and reingradually appoached each other. It required maty days. week eeren months, betore thigh and rein could he applied simultameously. This work on a straight conve requires much patience. and trequently throws the rider into potase perpiration. But when thish and rein an once he applied simatabeon-ly the horee is placed -. hertween thigh amd bit." and the matural wot hat hooll thansormed into the medium trot betione wou know it.
S. I place much value on the gallop as a means of workite the hindtand. The gallop is a gait cory esmpathetic athd matural to the horse. But those alone can properly work at the gallop whon sit correctly contorm well the motion, and do not need the rein for keeping their seat. For thi- reanon I pheak again and ugain of the wat. Many riders and instructore inwardly hate the gallop. .apre rially the extended gallop, because the g to not know how tor ride it: because they lack the disengaged seat: becallse they do not let themselses go and allow the bore to move treely: becanse they come in contict with the horse in this manner. They serk to make up by force tor lack of adroitness in the saddle, interfere with the gallop jumper of the borse and cause pain, to which the horse responds by stiffening itself staring and pulling on the reins. Such choking and fighting ruins the horse's body and character, and the riders think that it was the gallop that spoiled the horse, when. in fact, it was the manner in whith they rode it. Cavalry must be able to gallop for maneuvering. charging. patroling, and producing bold riders. Whoever cannot make a long gallop with an easy rein, is not a properly trained cavalryman, and can be given no voice on campaign riding. The long gallop is the rider's touchstone: the proof of the example cheers the beart, brings selfcontidence, the feeling of invincibility, without which cavalry can do nothing. In riding the young horse at a gallop, its jump should be absolutely unimpeded. By increasing or shortening. a medium gait is reached,

when the rider may une both hathd, as in horse breaking, and in drilling, when the soldier holds the weapon in his risht hand. If the reins are remosed trom ower the homes midtle and becomes coufused, cannot be properly turned. ete. Again. the prpper position of the reins is imposible without a correct seat. It hrings about refractoriness and it you are strict with courself you admit that it is you who is wrong. Frequently the canse of the horse's leaning on the reins is that bendings and lessons are demanded tor which the horse is not yet ripe. In addition. horses that take one rein only are more quickly used up, their legs suffer trom one-sided use, not to mention a galled back from great exertions in the field, refusal of tood exhaustion, ete.
H. Much harm is done also be using an unduly long rein.
S. Chiefly because the rider is apt to take the reins too short. believing to have thus better control over the horse. That is an error. The horse familiarizes itself more readily with reins of proper length, and seeks them. While it endeavors to get away from the short rein which hurts: for the rein, if too short: 1. deprives the horse of the possibility of stepping out. of extending itself, of selecting the spot where to plant its feet. It deprives the horse from beginning of the initiative, renders it systematically unsteady, which will manifest itself later in riding on uneren ground. ‥ With high paces, mouth and balance are lost. 3. The position, the rider's seat, are lost. He advances the hand, draws in his left side, and leans to the right. Result: Saddle galls on the left front and right rear. 4. It invites falling. When stumbling the borse seeks to rave itself from falling by planting the fore legs and stretching the neck. Too short reins prevent the horse from doing so. The rider is at the same time pulled forward, and cannot, as he should, throw back the upper part of his body, and take his weight off the fore part of the horse. 5. The horses are thus prevented from looking out tor themselves. become unsteady, stupid, and the riders become diffident and cowardly, for they lose the confidence in themselves and the horses.
H. The reins whould however, not be left loose too ions at a time.
$\therefore$. Of course not so long that the rider loses all action upon the horse. The fault of too short reins is the more frequent one.
H. It is a pity that there can be no fixed rule for the length of the reins.
S. The length of the reins depends on the length of the borse. the position of its head and neck. Nothing better could be said on this point than what is contained in the riding instructions.
H. There are many riders who seek to repredy the defect- in the construction of the horse's neck by auxiliang reins.
8. Unfortunately, yos; it is carried so far, that the anglomanics, particularly the awkward oned, cannot take a ride without a martingale. That expedient is useful only in breaking horses to the gallop for racing purposes, and undep an excellent rider. For riding hall work it is injurious, produce an oblique position of the head. a faulty bend of the neck, and accustoms the honse to pull with the head upward. For campaign riding the martitgale should be dis. carded, for reasons: 1. If short in order to be effective, it impedes the free movement of the honse, especially in the high jump, and drags the stumbling hotse downon the ground, and is therefore dangerous. 2. It takes way the lateral action of the reins. 3. It causes the borses to be bridled too high, and injures the forchami. 4: Its correct use requires the hase of both hands, while the soldier. has but one hand available. 5. Bridling in case of alarm is delayed by the martingale, and the leading of a spare horse by the smattle madè ịmpossible.
H. The use of the mirtingale was once recommended to me for a horse that had an inclination to the ewe neck when I bought it. It braced itself against the action of the martingale, and developel the awe neck all the more.
S. I could have told you that at once. And yet the martingate has become the fastion.
H. In the division which I commanded there were infintry regiments among whose chargers more martinglales could be see"in than "jump reins" in a whole caralry brigade off 1,400 horses.
S. I do not like the fixed "jump reins." They are frequenty used against tossing of the bead, and for confirming the position of the deck. They are injurious to the derelopmest of the paces, and of etil for man and horse. They fail of theit purpose entirely. The position of the neck can be modeled over only by driving the bindband forward against a soft, but steady hand, never by strapping up the horse forcibly. The tossing of the head susually the result of factory-like, senseless work. I When the rider begins to drive up the hindband, to bring the horsie's head and body closer to the head, it is unavoidable that the constraint should capse discomfort and pain in the compressed muscles, particularly if the nether jaw is sharp, as in blooded horses whicb resent any constraint. If too much be demanded at once, if some relaxation is not allowed so that the poor animal may streteh and refresh the pinched muscles, it becomes exasperated and seeks relief in tossing iks bead." It is the
riders fatult and if he apply time in the way of andiary reins. he adds to the obstreprousness of the horse.
II. In my limited practice I had an experience which prowe
 back. and longe slender neck. It womld rault its whole neck and spinal column like a fish. and when I happened to sit carelessly, I was apt to receive a blow from the horees bead in my face that made my nowe bled. I anked the instractors permission to use a ..jump rein." He declined and hemanded patience, seat and a lisht hamb. After nuch work and mutohl patience the animal gained contence. I rode it many gears and in two campaisns. and newer had a nimbler more comtiortable or arreeable hore without - jump reins." For thin rearon I have always heen opposed to the .. jump rein." In the busar repiment of my divine the we wat one All officers, however, whoknew that home even the greatest oppor nents of this instrument including (nolonel Kammer of the reqiment, declared the .ejump rein" indippelnable in this case. The home would throw the head hack obliquely able in the atmence of the ". jump rein." run madly away. Many a rider had been ingured bey it. When it felt a ." jump rein." that math this mancover impowi. ble, and its behavior was exemphars.
s. You see how smart horses are: Hal yon beelable however to follow the taming of that horse from the heginninge you would have observed that the amimal aiduired the had hathit arri. ficially in one way or another, and that correct tratment would hare precluded the habit. For this reason I object to any kind of ausiliary reins in the training of remount.
H. Have we the right to reject those anxiliary reins, which are enumerated in that part of our gospel, our riding instructions, which treats of the training of the remount? There we read: . Bearingrein, catcesson, dumb jockey."
S. All works on riding, and toremost among them our riding instructions, are agreed that auxiliary reins require particularly grood riders, and are dangerous instruments, which, in most cases d, more harm than good, and are not to be used by riders whowe akill is doubtful and understanding defective. That is the case with all remount riders of our squadrons. However thorough the instructors knowledge, ami however great his experience, he cannot superrise every pull of the rein of his dozen of pupils or prevent faulty ones. Auxiliary reins whose action is lever-like and twice as strong as that of the simple snaffle, double the faults. Imperfect riders mean to force the horse with the help of auxiliary reins. They believe them.
selves at first to be succebsful, but the horse dedeives them, and they themseltes. The giving way sideward of the upper part of the jaw and the croup and dropping of the neck, they mistake for a proper yielding, and fail to notice that the horse is crepping behind the bit. Confirmed in this idea, they mean to reduce the poor animal to ohe dience by forcible meaus. They mean to athain forcibly, without effort, and at once, what can be the result only of gradual and pro. gressive exercise in bending and rendering the horse supple with the belp of aids and lessdos infelligently applidd. Inpatience, latk of skill and understanding, and personal comfort, make auxiliary reills an instrument of torture. There are good-natured horsewhich stand this cruelty, and finally go in one fray or another. Impure paces and excessive work are the resuly, and the poor rider does not know that he is condemning bimself ip saying, ". The horse gres pass paces," or "runs aphay:" or "is already broken down. Many young borses are prematiturely condemndd, and old, used up. dull horses have to be retained one or more fears after they hare ceased to be serviceable. The best auxiliary rein is the steadily driving thigh.
H. Would gou also probibit the use of the auxiliary rein in the squadron for retraining of horses?
S. There are probabls one or two riders in each squadron who have made sufficient progrese in riding to apply auxiliary reins intelligently. The leas, however, auxiliary reinsure used in the first training, and the more rationally that training is carried on, the fewer will be the horses which require retraining with the belp of auxiliary reins. In the squad they should nerer be permitted. All works on riding assume that in the training, and particularly in the use of auxiliary reins, the rider rides by himself and can devote himself exclusively to his harse. That is impract cable if he is tw pay attention to distances, other hopses and commands.
H. The same may be said of too sharp a curb.
S. There are excellent riffers who can ride with the sharpent bit, because they are skillful enough to ride lightly and gently in spite of the curb. In school Hiding, i.e., the pld bigh selool. the curb is used, and applied, like dll auxiliary reins, with understanding and care. Exceptionally food riders can ride with the sharp curb in the open and betore the front, not howtever, in ranks. For purpases of campaign riding me can not caution too much against sharp bridling, i. e., too long a pull, too tight a curb strap. It is unneqessary to state that the naffle incorrectly placed, either too bigh or too low, ill fitting too wide or narrow, torments the horse.

A- with at anxiliary reins. so I am ergally opposed to all extraordinary kimk of bits and bitting, with which so many riders torment their horses.
H. The riding instrnctions mention amons the auxiliary reins, the er raining hater." Do you reject that abo" Langens had every remount bridled. in the beginning. with a kind of ridins halter, i. e.. witl the snaffle with nose strap.
$\therefore$. He was right. If you call the nowe strap an auxiliary rein. Which you must since it forms wo longer part of the regulation equipment, I am in facor ot this one auxiliary rein. I did not think of this before, for during the ereater part of my ervice the mase strap was part of the equipment. It is exceedingly difticult to hreak a horne without nome strap, and requires particularly fine touch. If the horse is able to open its mouth wide it will displace the upper part of the jaw. sather the tongue against the bit, or place it wer the bit, let it hang out on the side and use a momber of smart wicks to escape from the effect of the bit and bending of the neck. and brace its body. The rider easily deceived. mistakes the "atanding behind the bit" in the hall tor light tond. In the open he lie. sins to realize that the horse is not bent, and has deceived him by creeping behind the bit. It is diffecult to hreak such bad hathits. The nose strap prevents them. some riders have such a hard hatul and tauly application of the thigh, that horses will nevertheless a-quipe these bad habits. A light hati, in combination with the mose strap. prevents them.
II. The nose strap no longer forms part of the regulatinn fied erpipment.
$\therefore$ Lnfortunately not. If a borse is perfectly broken. i. .. supple and obedient. it may confidently be ridden without nose strap for an ordinary ride the chase, etc. In the service it is an evil. This is proven by the extraordinary increase of horses who stick wat the tongue. Fifteen years ago they were infrequent, now they are numerous. For this reason I regret that it bas been discarded, and hope it will again be adopted.
H. You were quite right in discussing the hamdling of the reinbefore the bending, as from fauty management of the reins and in. correct application of auxiliary reins a fatey bending must result. Permit me, therefore, to revert to the question how you begin the side bending lessons.
$\therefore$. The sideward bending of the horse in begun by every rider. by moet of them without knowins it, with that turning in which the hindhand steps in the trail or the torehand. It is that turning
(fassing of a corner) in which the application of the inner thish and letting go of the hindhand is no longer uset to teath obedience to thigh, but in which the hiudhand is checked by the outer thish Few riders know how in such papsing of a corner a home must bend as on, a large circle, and what demands are mate on the horse by beginming too early with the passing of corners
II. Then you give the first bending lesson on the circle in the hall?
S. : The large circle in the thall is too small for the bexilninge. Beginon a large opeu space, wifh half and quatter circlew of areater diameker: but, mind you, not-bfore the horse pheys thigh and rein on a straight course at a mediup gait, makes hut one trail. athil (and increase or decrease the gait achording to the thers will.
H. 'That would be about the time when riditur in squals on the square with distances may be bygun.
S. About, yes; but not beffre the horse cah bemil without pain on a sircle so small as the lange circle of hadf the hall. In the square the riding should at first be so regulated that along the short side a half circle is described ingtead of passing two corners. Cuder no circumstances should riding on the square with distances be begun too early or continued too long. Individual riding always remains the chief consideration. It follows fron what I have stated. that not all horses should be brought into the equre at the same time for riding with distances, but $\phi$ ne after the other when sufficiently progressed. Riding with distances is of' great value. It is, as previously stated, the test whether the rider has worked forward or backward. For the service it if a matter of neqessity to equalize the pace; otherwise closed eqolutions would be impracticable. When horses once go a medium pace, and can increase or decrease the gait, observance of distancen nolonger entails danger to the grat an at the beginning, when the horse must be allowed to go its natural gatit.
H. I told you before that Lanoens enjoined not to regulate the distance by increasing or decneasing the gait, but invariably by rounding of the corners $\phi$ following them more closely. Increase and decrease of gait he demanded, according to the horses progress. at every stage of training, until it could be done at every step. and perfect obedience to thigh and rein obtained. For regulating distances, however, he prohibited any change of gait. driving forward. or holuing back.
S. He is right as to detail. On the whole, however. all riders must pass over the same distance in the same time. abl thus a uniform medium gait is obtained; spch as prescribed in the resulations.
II. Further hemdine in abtained lis riding elocely inte the cormere
$\therefore$ Ser. but very gradually ami at fire with a momsiderable roumbing off. Then you mas alsamee to the eirele and bend the neck in motion.
H. Not at a halt?
$\therefore$ in the begimins I preter the hending while in motion because it bending the horse at walk: it is apt to get hehind the bit. I berin with a lively medium trot. Whon it in once certain that the hore will not ereep behind the bit. you may bend its new at a walk. and tially at a halt.
II. I heard some riders say that the bergh with hending the forehamd whers, that they began with the hiodham. I mever couli understand that.
$\therefore$ Nor can it be undersood, for the former is injurious: the latter, impossible.
H. Bat you stated the last time that in heginning the turninge. the himdhand may be allowed to fall away. In doing this, in the valtes with turning. the forehand is bent abone without the hindhand.
$\therefore$. You forget that it was during the preparatory stage only. in onder to impart to the horse at lessom. to teach it the riders language. to render it obedient to the thigh. If, atter the himdhand has been brought under, and bending of neck and haunch in the vertical plane has been attained, sideward bending is begun for purposes of training. a gross error is committed in bendang the forehand without the himbland. Bending of the forehand without the hindhand is imposible, since we ride with thighs and reins. Whoever says that be bends the hindhand first has recognized the disadrantages of the bending of the forehand alone. begins as recommended by me by bringing under the hindhand and believes be is bending the latter only. Without knowing he is bending the forehand at the same time, if he has a grood, steudy hand. The forse is a very singular being, upon which any kind of action produces effects. You cannot act upon any part without affecting other parts at the same time. Hence it should be endeavored to act correctly upon all parts of the borse's body at the same time.
H. You would seem to be decidedly opposed to bendine the horse led by hand.
$\therefore$ Bending by hand must be used cautiously and dincrectly. The horse is apt to be brought behind the bit. as in Baccaers works all the horses are drawn with the bend in the region of the third rertebra. To make himself intelligible to. and familiar with
the horse，a grood rider may risk the bending by hand：not wo much． however，or too long，nor so that the hindhand escapes the effect of the bridle．

H．Do you accomplish the further bending by means of the volte？

S．The volt of six paces diameter is about the sharpest beming that a horse may be subjected to，for we ride even the riding paces， with the bend of the body given by the volt（a atarper following of the corners in itself is a sharper bend，but only a quarter of a（irele）． A good colt is the touch－stone of complete training．Generally the volts are begun too early；more particularly volts with distances and command should not be riulden until the horses are thopourhly worked through．At ayy rate，the increasing and decreasing of the circle should be much practiced before attempting volts．

H．I knew many riders who were decidedly opposed to any circle work，and were of the apinion that the only result was that the horses got lame．
\＄．That is bound to be the case when it is overdone，and like－ wise if any bending is overdone．Most riders fail to consider what pain the poor animal is suffering in its muscles from the unwonted bending，and how necesgary it is to allow the horse frequently，very frequently，to stretch itself．How our own museles do ache when kept for some time indan uncomfortable position：How we do stretch ourselves！And to the horse we are unwilling to concede ${ }^{7}$ this，and lay to ill nature and unwillingness when it does what it is prompted to do by severe pain．So wonder if it does become unwilling．Heuce quite short lessons；frequent opportunity tor the horse to stretch itself；frequent change by bending to the other side；and，to prevent the hindhand from remaining behind，frequent change to the medium trot with which any exercise should wind up，the object of which is bending．Frequently we see such all exercise continued too long；for instance，an instructor will some－ times keep a squad on the circle on the same hand for a quarter of an hour．Nothing could be more injurious to the character and nature of the horse than the senseless riding of exercises for their own sake．With every lesson the rider should have an object in vietr，and when he has attained it in some slight measure，reward the horse by leaving it untormented，and practicing somelhing the． A levson by itself without object is senseless and harmful．

H．We frequently find even good riders too deeply enlisted in circle work for bending the horse on one hand．

S．When they do so，because they continue the exercise ton
long on one side，they show that they do not understand their busi－ news and are not good riders．It happens，bowever，that an other－ wise good rider becomes angry practioally when he begins to feel tired．Well，all angry man hardy ever does anything wise．

II．My often mentioned instructor had a goom remedy for the quick anger of rider．He always carried a knite in his pocket．and whenever a rider became very angry with his horse，he would offor him the knife to kill the horse on the spot；he said that would be better than to twoment it that way．This offer had inwariably a calming effect．
$\therefore$ I cannot retrain from inviting your attention to an emor committed by most ribers in bendings and revert agatu to the satt． They allow their seat to be deranged by the work of the hands． They then sit the horse obliquely and than give with their weight and thish unintentional and therefore fanly aids．Indoins whe inner hand passes over the horse＇s back to the outer side．while the onter hand passes th the inner side．The erossing of the bathle conn－ fases the borse and hoold not be tolerated．Yet gou can see that frequenty．

II．It would perhap be well to embavor to procress before winter sets in sufticiently far in the training of the remonnt to allow of riding on the squate with distances．
$\therefore$ Why？Errors of precipitation are always committed when a certain term is set for certain progress．

H．When the wintry season preventw work in the open becatase the riding placesare frozen over hard and the hall is at the dispoal of the remonnte for threequarters of an hour or an hour each day， all remounts mast be bought to the hall together．
$\therefore$ Most of them will be sufficiently adranced．If howerer． one or the other is not，it should preferably be worked by itself．

H．But the hall is oceupied all day．
$\therefore$ It will mot be ocoupied all day if the ohd horses are so ridhen and treated as I want it．The hall is there chiefly for the sake of the remounts and recruits．They have preterence．Everything else comes after them．Any kind of hall work is fruitful of result only if the horse is ridden by itself without regard to distances and commands．This alone should show you why the old selool hatls were buit so small．They were built with regard for individual horses．Hence all such work is to be done in individual ridings so also in the hall．The instructor should dismount the squad，and let it rest or move about in the hall．and should take the riders one by one．of whom perhaps two or three at the most work by themselves
at the same time, but without reference to each other. In the beginning the whole squad, observing distances, should ride medium gaits only, and practice inereasing and decreasing same, not. how. over, fithout considerably rounding of the corners.
H. Would you not put the whole squad on the circle, increase and decrease the circle, and bend in the medium trot?
S. Not until individual work has shown that the borse has made sufficient progress. Individual riding must remain the main reliance in the hall, too. In this monner on overworking of the young animals by training is aroided; the qiding instructions mean to prevent orerwork by prescribing a maximum of one hour use of the hall. for if you prescribe much individual riding, a part is resting and each horse is subjected to training and fatigue during one-halt only of the prescribed time; during the other half it is resting
H. Would you let young rembints gallop in the hall?
S. Why not, if they are sufficiently advanced that it does them no harm? The duration of the gallop should, however, be shorter than in the open, because in the small hall the turnings come oftener than in the large riding phace, and fatigue the horses. At any rate. it should not be considered a crime on the part of the howe when it falls into a gallop of its own accont, nor should it be held back, but it should. as I have explained for the natural gallop, be driven with the thighs, to prevent the hindhad from remaining behind
H. What is the next bending lesson you would take up after en. larging and diminishing the circleand bending on the circle?
S. It is the riding of the medium gaits in the second position. Few riders are aware how strongly the horse must bend to go in the second position. Thes should be compelled once to walk even five minutes with their faces turned as far to the right as the horse must turn its face, so that the rider may see the nose and eye, and they would soon feel pain in their mascles. The position toward the same side should therefore not be continued too long, us all exercises should be continued but for a short time in the beginning. It is important to use at first lively medium gaits only. It is in these alone that the hindhand (and more particularly the inmer hind toot) is so much brought under, that it begins to carry the forehand. while in a shuffling, sleepy gait the hindhand remains behind.
H. A very effective lesson is the riding in counter-position. especially on the circle.
S. A very effective lesson indeed, which is to be recommended. But because it is so effectipe it should be used with diacretion, for its effect on the horse is in proportion. I recommend, therefore, to
make in the beginning lint few sumewive step in that prition, and (1) pase not more than one cormer, strongly rounded nft. in the conter pesition if you wish to aroid injary to the horser himd herThis lesson is the primeipal meanm by which tratuers ornking for the horse traters quickly reduce horses to some kind of obedience. it ofler that they may be what ath early date not "aringe of course what heromes of the hore afterward a method of training called *the Jew's -pit." Yer this leanh is not to be rejected with horsen which, while in the proper prition. how indination w sive way wid the croup to the guter side and to retinse the hindhand
II. Clowely conmeded with the seromb preition in the - hreakine off." Lanarss nerer liked the turm. and called it intea!. "rivinte way will the hamd."
$\therefore$ The turm, it i- true is not well ehosen, berause it is apt th make one believe that the application of force is imprifed. This ex. ereise should likewise we the orembane. The rider hand arive as sonn an the hopse gives and use his highen on that the horee maty not crep hehind the bit. It . Should therefore be hegan while in motion at a mediam tort, nor should it be omited in the zallop a-mon as a medium gallop is admisible, ath it is only subsequently that this lewous soond be taken in hand at a walt. Sor should it he done at a halt hefore the horse is well up to am couthenty champe the bit. the hiodhand well under. Like bemtinge the "hreakine off" dis. monnted by hatad should be done with great catuon.
H. What has struck me most regardine the division into train. fine periods contained in the riding instruetions. is, that the require that the young remounts be praticed in the "schulterherein. "travers" and "renvers" as early a- March and April.
$\therefore$ It is stated on page +4. that durins the first year the precivion required in the second year is not to the demanded at first in any of the lessons. That does not mean that the may be ridden awkwardy. in impure gate, the bimband falling away instead of heing broyght under. bat that in the lesoons on the double trail. the two linof tracks must not be farther apart than in the finished side pace.
H. Your demand coincides with the principles established by lasoens. He demanded that in the beginning the one sixteenth "schulterherein" should be ridden.
$\therefore$ In nothing is there greater error committed than in the lessons on the double trail. They are practiced for their own sake. to show them off at the inspection, not as a gymantic exercise, as a means to an end. When the end has been attained. the means is no
longer needed. Hence lessons on the double trail should never be "inspeected," least of all in squads with distances. The efficiency of the horse trained as a military mount should be looked tor as the result, and the means theretopshould not be used for quadrille exhibitions.
H. I had a horse once that had nerer been put through the lensons on the double trail, and yet was pertectly actise and fit tor everything that. could be demanded from a military mount. When old it went willingly ynder a young rider, even the paces on the double trail, which it had never been taught. I rode the horse more than seventeen years.
S. Not every borse hoeds the gaits on the double trail to become an efficient military mount. There are horses formed by mature on normally, and presenting wo little difficulty, that they to not need these exercises. They can do them more readily, and are theretore frequently used to show the art of riding in its highest pertection. There are other horses of such difficult build, that they can never be given lessons on the double trail without injury. In such cases it is better to omit these lessons altogether, than to ride them incorrectly. Frequentls, alnost invariably, these lessons are begran too early and the horse's gait is spoiled. Whenever you see remounts whose hindhand is not brought ap, which pace at a walk, which. at the trot, do not step with the hind hoor as far as the imprints of the fore hoof, nine times out of ten they have been spoiled by premature lessons on the double trail, ridden faultily at that, in which the hindhand falls away instead of being brougit under and carrying the foreband.
H. It is better, of course, not to give any lessons on the double trail than to give faulty
S. Worst of all it is with the "achulterherein." Horses mary well be broken without thie lesson. That was possible befire the timesiof ite inventors. La Guerinteres and the Dcke of Newcastle. At the time, the invention was loioked upon as the expression of the bighet perfection in the high school, not as a means of instruction. These old masters of the art of riding would turn over in their grave if they should see what is now perpetrated as the "schulterherein."
H. Yet it is preacribed in the riding instructions.
S. Whoever reads that part attentively feels what difficulties the author encountered to make himself even approximately understood. It is uupplemented by an addendum explaining the many errors committed in the "schulterberein" and attributed to insufficient
work and too high demamds. i. ... invariably to precipitation in training. It is theretine in the seme of the riding instructions not to demaml too much, and to work the borsee sufficiently in elementary excreises before passing to lessons oll the double trail. They should be deferred until the horne is sutticiently prepared. and it it never reaches that stare they had better be omitted aitogether.
II. Could you make a horse a tive for campaign riding without these lessons?
$\therefore$ Sot only can I do wo. but I am compelled to, since, as stated ahove there are horses which can never go those pates without injury. The "schutterherein" can be diapensed with atogether. The "travers" and "renvers" might be replaced. in case of diticult conformation, using position and connter position with increased application of the outer thigh. by a gait resembling the one-sixteenth travers and renvers mentioned by you and which canses the hime. hand to be brought well under the ioad. which is the sole object of all these exercises. You find the same ideal explained in detail in the excellent book of Plinzaer.
H. Then you would pefertodoaway with the enchulterherein?"
s. I should like to see it absolutely forbiden to teach these les. sons to whole squads. and to have them riddeth with diktances, just as in the introduction of the riding instructions it is forbidden to teach the lessons intended for the third riding class to whole squads. On the other hand, the men of the preferred class, who have to do the breaking, should learn the lessons on the double trail one ather the other, as their knowled $e$ increases, provided they fultill the pre. liminary requisites $z_{2}$ i. e., light hand, rider teeling, correct aids. We must insist that the nonexecution of difficult lessons does no harm that badly ridden lessons are bound to do harm.
II. You spoke above of bending and "breaking oft" in the mediun trot. You certainly could not practice side paces in the medium trot.
s. Certainly not. A perfect side pace can only be ridden in the shorteped trot with high action.
H. But according to your statements the shortened trot belongs to the high school.
S. Yes, when perfect; just like the shortened gallop and the side paces on the double trail, if they are to be ridden faultessly.
H. Then you want the horses taught the shortened trot on a straight course by continued work in increasing and decreasing the gait, before passing on to the side paces.
S. That would be irrational. We never complete one thing en-
tirely before beginning the next. All kind of work with the object of bending the horse must progress simultaneously. The trot "with shortened gait" musr be degeloped simultaneously with the side pace, very gradually, howeverf and never more rapidly than in proportion to the horse's capabilify and bodily development.
H. It think I underatand you now. When the horse has learned how to gq the medium trot with position, and has made some progress in "breating off," and increating and decreasing the gait, then you shorten the gait nomewhat and give more position to the forehand or to the hindhand, or to the Hindhand with counter position. giving thus an idea of "schulterhenin." .. travers" or "rencers," and at the same time increasing and decreasing the shortened medium tron.
S. I ride the side pace onfthe single trail, so to speak - the onesixteer th side pace, as Langenn calls it. As bending, capability and derelopment of the horse profresses, I take more position, so that finally the trat of the forehand separates from that of the hindhand. and, hand in band with this, strive for increased shortening of the trot.
H. I belleve there is danger of being deceived by the horee liy a lazy, shuffing gait, which may be a short trot in whicb the horve faila to bring the hindhand under.
\$. When the ride percefver that the hindhand is not brought under the body, he must conc|lede that he is shortening too mulh, is taking too much position, and should at once revert to regriating the gait, i. e., driving forward with the thigh and taking less position, for he had passed to the prore difficult lesson prematurely. It is the prerequisite for any tro that it be ridden actively, in order thaty the hindhand may gradually be placed under the body, as I told you betore.
H. Then you woukd attain the perfect side pace, with the dis. tance between the two trails a laid down in the instructions, at the same time with the perfect, shortened trot.
$\$$. Yes, if both are attainable at all. If not, I content myselt with that measure of side pade and shortening of the gait which the horse's conformation and development permit. For I make it a point, that a perfectly develop and regularly formed riding horse alone is capable of going a perfect side pace and trot with shortened gait.
H. Then you content yourself with a measure of side pace and shortening commensurte with the conformation and development of the horse.
S. Yes; and under certain circumstances, without any side pace,
and with a mere riding with position. and incressing and der reasing of the medium trot. For there are horses which can never go side paces, and yet mast and can be rendered active for use in the caralry. This is expressly stated in the riding instructions. Now. just as there are horses untit for side paces on acoont of their conformation, so there are horses whith can only got them to a limited extent. and with which the requirements of the instruetions must be relaxed. It is preterable to ride little or no side pace rather than to demand one from a borse such as it is as yet incapable of goins. I agath remind you that a horse must ice in possession of it- fill strength: if it is not it will be injured by the selhool trot with shortened gata and by far the least number of our wh remonats are strong enough tor thi- purpose.
II. Then it is your opinion, that hat tiow of our - obld remmant are capable of aroing the pertere regalation shortened trot and sibe pace.
$\therefore$ If one of the sisty-five old remounts of a regiment is apat be of doing it. it is an exceptinp. Those whose conformation ad. mits of it at all, have not their fall strengll antil later.
H. Is it not. on the other habd. a donktal measure th rest satiofied with a defective side pace as a means of instruction?
$\therefore$ We must distinguish between a porly riden side pace and one not abreast of all the demathe of the riding instructions. The latter may be ridden perfectly, but does not demand more from the horse than it can do. It will always be useful. It is only necessary that the shortened trot be ridden actively, that while in the position it is intended to give the horse the gait be not shortened for the sake of position or side pace. but be increased and decreased tior the purpose of bringing up the hindband.
H. There are many men who refer to the side paces in general by saying that they let the horse "step over." But Bathy says, that his father, the celebrated equerry, ever declared any crossing of the horses legs a fisult.
S. If the side pace. travers. rencers and schulterherein are to be ridden strictly aceording to the rules of the high achool, and with perfection, then the horse's legs must cross, must step over. But the stepping over is not the object: it is a test of the degree of train. ing. The main thing is the stepping under of the bind legs, the bending of the bindhand. The difference between the partial lesson well ridden, and the whole lesson badly ridden, is this, that the former, whether you ride with second position or with "one-sixteenths pace." or with a trifle more distance between the two trails, has
never any other purpose than the bringing under of the hindhand. the bending of the entire spinfal column, the neck and the posture of the horse around the inner thigh. The latter rests content with a senpeless, sideward staggering, in which the horse stiffens itself. does not become obedient. slips away its hindquarter and hurts itselfi with its hoofs. Anly such side pace is wrong. whether due to the flact that the aids were faylty or that more was required of the horse than suitable to its degrefe of training or strength. Again I revert to my principal axiom: "Rather no side puce at all. then "me badly: ridden."
H. But there certainly ate some things which all campairn horses must learn, as closing up, dressing backward. turning of the bindtiand, ete.
S. In what I just said, I had reference to the higher lessons. which are used in training as gymnastics, such as renvers, travers. schulterberein, trot and gallop; with shortened gait. The move. ments mentioned by you, we have for their own sake, for we need them in the drill in ranks. Any horse fit for use must learn and know them. Dressing backwards, it is true, serces for purposes of gymnastics as well as training, and should be used very discreety.
H. I would like best to ask you to detail to me the whole courne of remount training on the band of the riding instructions.
S. What for? I could only fay 'Yes and Amen" to ererything in these inatructions, and perhaps point out that it is necessary to comprehend their meaning to adppt oneself to every individual horse. and to advance in conformity with its capability and bodily development, and eschew adbering to the letter and stencil work drill. One pioint I will mention specially, learing out of consideration the exercises which, the horse once thoroughly worked orer. are necessary for cavalry, as for instance the use of arms, riding in the terrain, taking of obstacles, swimming, etc.; the essence of the whole riding course is the endeavor to produce a correct regulation long gallop. and the developinent of full speed.
H. Rosenberg, in his "Chance Ideas," rejects full speed in the charge altogether.
S. You shall see in a moment how little Rosenbera's and my ideas differ. When the horse is firm in the medium gallop, is up to the bit, and can increase and dedrease the medium gallop according to the irider's will, the long gallop of 500 paces per minute should be dilipently practiced, so that the horses can keep it up for some time, ard feel at bome in it, without losing their wind.
H. Not, I sappose, while confined to the corered hall?
$\therefore$ Certably mot. The many corner wobld make many homes bame. It is to be practioed on extensive ridite grounds with rounded off turns: individually at tiot, then two. three finur abreast. with intervals: also with distances to brak any tembency to flury. and. it the $\begin{gathered}\text { be well in latad. to instill a unitorm drill pace. It should }\end{gathered}$ ver be kept in mind that more ground muat be gained in the gallop than in the trot: for if the trot is sutfieient, it is unnecemary to gatlop. Whower, at a gallop. dow mot experience a seote of satery and delight ou his horses batk, heeds forte to retain his seat and control of the hores will newe exprence suctes and thelight in riding. athd had better give up the idea of preparing a home for the military service It is only in the loner satlop. With lisflet touch of rein. that the attentise rider beesone awate of the influence of the seat upoll the horse ite coldurance preet contidence and ease. In
 culminates. Full sped mast therefore hedeceloped neith much care and industry The more practice man and horse bave in the run. the more gon can count on a well closed charge against the ememy. The elosed attack is diftiouk to ride. espereially outside of the smooth. level drill around, and onty when every rider hav comted of his horse. However much horses like to run, they do mot like it in chosed maks. heranas of the absence of treed om or motion. It is ouly the power contered on the rider be the training that prevails on the horse to do it. Full sped derelops itselt trom the rallop. Whoever knows how to sallop. how th increase and diminioh the gallop, can also ride full sped: whoeser does not know how to gallop, whecer. as stated. is not a thoroughly !ustructed horseman. canome ride finl sped. for the cannot control his horse in the charge Vet full sped frequently receives in the squadron the same stepmotherly tratment ar the long gallop. The reason is. that neither horse win rider are sufficiently trained tor it, the former as regards independent seat, the hatter because accustomed to the long pace. Neither will. therefore. have contidence in his own power. In the excitement over the unusual. the hormes hurry. the cratifed seat impedes the loward movement: some horses run aw:y others ereep behind the hit and refuse to run. On the other hand. horses that have beell made obedient. can go full speed.
H. In hearing you, one might believe himself to be listening to the doctrines of the steeple chaser.
$S$. Both kinds of riding, it is true, culminate in the long gallop and full speed. In the chase, the latter is the "finish:" with the soldier, it is the shock. The great difference is this, that the steeple
chasqr leaves entire freedom to his horse's hind quarter, while holding peck and head low, guides it with both hands and good touch, carefil to so select his way that the gallop step is not interfered with. When it comes to the finish, everything depends on getting the horse to develop its fullest speed. Whether, when and how the horse is to be checked after passing the fitish post, is a matter of indifference. The military mount is to be guided by one hand, and should be capable, at any moment, of being turned short or checked with hind lege well under. It munt, besides, be accustomed to carry itwelt; to, look out for itself under a light reia; in the dense column, in line. in dubt and smoke, it cannot selfect its way, nor can the rider select its why for it; in the exolutions, the latter's attention is too much engaged with other things; the horse must therefore be accustomed to jump suddenly high and wide without onset, and yet retain itn balance. Last, but not least, int the charge the speed must be regulate 1 by that of the slower horsids, if the charge is to be as closed as required by regulations. The long gallop and full speed must therefore, in military riding, be ridden with more reservation. I believe I explained that to you once before.
H. Don't you think that this reserved full speed is the one demanded by Rosenbera who rejects full speed and demauds the hunting gallop for the charge? "
S. I cannot dispense entirely with the full speed, the shock in the charge, if for no other reason than that of the moral effect on both sides, I remind you of Zorndorf. In the charge against infantry and artillery, full speed is not absolutely necessary; it is agaiust cavalry. I prefer to keep up the trot long, gallop for but a short distance, if possible, to get well under way, and command "March! March!" just before the collision. If you simply increase the long gallop, you produce laxity, which leads to the breaking of the front, and, in the most favorable case, to a doubtful band-tohand fight, which coats tives unnecessarily. I agree with Rosenberg in so far as he rejectes the short, jerky full speed, as it was formerly ridden and exhibited. But the full speed which we need for the alhock, for breaking the opplosing front, we cannot do without, and he wants it too. He simply calls the child by another name, and calls it full run. The reasion why we see outside of whe drill ground so many charges which are not closed, is that in the individual training of man and horse the ultimate object, warlike efficienty, the long gallop and full speed, were not kept in view.
H. I judge from all this that you are strongly opposed to the short gallop.
s. On the contrary. The where gallop. A. A. the gallop with shortened gait is a good means of instraction to make the howe supple and flexible. It is a sehool pate like the shortened tord and all lessons on the double trail. These lessoms should theretore be taken in hand only with horses of full wereng and obedience. It should be ridden with much bembing of the hameh and little ground should be zained: the more the himdhand syats and the higher the forehand gallope the hetter. For campaisn riding it is abolutely welew. If nothing were konwn of Prince Frederick Charles than that he prohihited the parade mareh in the shortened grallop. I should judge trom that fact ahome that he grasped the true rider spirit. Asmeathetothend however, the short sehool gallop is rery good. It should theretore be taugh hy the hew riders only, and practiced by them in individual riding. It abould not ine required by squads and by command for eren among the leses riders of a squadron there are some wholod antay he their care tior observing distance, resme to teree or fail to notice when the howe gets behind the bit. It is difficult to ride it well and benericially. Faultily ridden. it is harmfal as any fanty leswon: heome it had better be omitted altogether. The gallop with shortened gat is not to be mistaken for the shortening of the gait at the motiam gallop. Any rider of the squadron ought to be able to do that.
II. But you would require of the ofticers the sallop with short. ened gait?
$\therefore$ I fatil to see why all the officer should not leatio the entire high school for their own enjoyment, and I should be delighted it they all could. The same way I extend my patronage and tieel gratified whenever they take part in races especially in the chase. When they are able to do these things perfectly, they will perceive in what these branches of the art of riding differ from campaign riding, and how and in what particular the three branches mast be kept separate.
H. It is petting late and I have already plied you too much with questions. Permit me jusy one more. How many riders in a squadron do youl mean to use for hotse breaking?
$\therefore$ Sot a single man more than those in possession of the neces. sary qualifications as I stated before.
H. The four-year volunteers onght to present a good contingent. because they enter the cavalry from love to the horse. and in many cases have learned riding before entering the service.
$S$. Their number varien a good deal in the different regiments. and averages annually about fifty or ten per squadron, in some regi-
ments only seventeen, or three or four per squadron. It onght to be gratifyidg to find one-balf of thedesuited to the trainity of remounts.
H. That would make from one to three per year. that is. if they ara available for remount riding in their second year of service, from three to nine altogether. How many non-commissinned officers do you think possess the necessary qualitication?
S. Qne-half of themat the noost; that is, seven.
H. The squadron will then, according as it has more or fewer four-year volunteers, have to traln fewer or more conncript receruits. i. e., from twenty-five to thirty three. How many. from sour experience, do you think will be sufficiently skilled for use as trainers during their second and third yaur of service?
S. Barely the fourth part of them.
H. Both contingents, then would give the squadron from twelve to sixteen. With a lar this wouldgive a total of thirty four, with fex volunteers. Taking into conkideration detached sertice, promotion of four-year rolumteers to non commissibned officers, sickness, or other lowses. the squadron might soon be unable to furnish a rider for each remount of the tof contingents of thirte horses, not to mention the horses: that need re-breaking.
S. : These figures do not shake my principles. It is absolutely necessary that the horses of the goongest remount class be trained by suitatle riders only. If I had but three or tour such riders in the squadron, I would rather let them ride three or four horsen each daily, than put unsuitable riders on the young animals. The riding in the squadron will then show arly progress, and in this manner in itself increase the necessary number of suitable riders. There is even spme advantage in having the trainers ride more than one horse da事;: For riding, riding, fnd again and again ridins. is what produces good riders.


Ithe Army and Nine! Journal of February 2 :3h. under the he:aling "Ordnance Sotes." appears the following:
. Lieutenant H. C. Ifos. serenteenth Infantry is conthibuting to the Army Herald. Columbus Barracks. a series of articles on the new army marazine rifle and in the latest number gives six principal falles. with perhaps more to follow. These are: 1. The twint should be from right to left, so as to adod the blow on the cheek. given by the stock in firinge athi to make the drift of the bullet toward the left, an as to connteract the natural "pall" of the trigger whe right. The Lebel rifle, of Franwe, and most sportine riftes hase their twist from right to leth. $\because$. The rear sught is too far from the ege, is not propery graduated tor the gan and has no windgatge. 3. The magazine mast be charged singly by dropping indivilual cartrifges into it. entailing bos of time t. There is me,
 itselt: unless be can utilize it with his shelter tent. Fach mon commissioned officer. however, houhd carry one and it shouh shide into phace easily and quickly, like the old spritustich. insteal of heiner strewed in. 5. The cut-off lag should be bight sted or nickel plated, wo as to be more readily observed by squad and compathy commanders. 6. There is danger in harine cartridees ".jam" in the chamber, espectally if a soldier confused the two tunctions of the frun as a magazine and a single-loader."

A few of these criticisms exhibit such impertect knowledge of the new rifle on the part of the writer that $I$ am led to attempt to correct any erroneous ideas he may bave given members of the Cavalry Association and the readers of its. Iocranal.

Considering these objections in their order:
First. "The twist should be from right to left to avoid the blow on the cheek given by the stock in tiring," etc.

Experiments have shown that the blow referred to is callo..d hy the recoi of the piece, and that there is no twist of the suck to the left due do that of the bullet to the right.

The pecoil of the new rifle fose than ome-halt that of the Springfied.

As to the statement that a twint of the rifling to the lett would counteradt the natural "pull" of"the trigger to the right, it is claimed that the fifle sufficiently provides for this very thing. The sighting notch on the cross-arm of the teaf is one-hundredth of an inclu tw the beft of the axis of the barrel, so as to corvect fin drift at ion gards, while that on the slide is fro-hundredth- of an inch to the left. coprefting for drift at 1,000 yards; consequently tir all distatme. under 300 sards the piece will whoot to the lett: from sow to tinn yards. slifhtly to the right: from dow to 1.000 . the the turain and begond a housand to the right. Now, if from his experience at the last army competition, where it is presumed Lientenatot Lfon became aqquainted with the newgrun. it was found to shot to the right, his fatural pull" must have peen considerather excepl betwen 501) and opat yards.

This "natural pull" should not be allowed for in a military arm. It will rafy with the man. Some will pull diredtly the rear, others to the right, and "shooters" say that there are others till who "pulloff" to the left. Therefore, the only way to have unitormity or to attentipt to do so, is to teach a man to pull directly to the rear. In spoition riffer, perhaps the conditions are different. The humtilis sightsiare usually simple, withoat wind-gauge, and as the ordinary buntsman is not taught how to pull a trigger. he probably will puil more or leps to the right, and the ldifthand twist (with no drift correction) fill somewhat counteract this-all this supposing the sportsman to be right-handed.

Neerly all modern military riflew have a twist to the right. The reason for this is hard to discoser. In an old book written in 1859 . I have found a reason for the left to right twist given by a commis. sion appointed to investigate the subject of chambering. rifling, etc. It is, "that a twist from left to right is selected to counteract the natural teqdency of a soldier to inkline his sights to the left." In opposition to this, the author thinks the twist should be the other way, as the force of recoil or flinching from the recoil tends on bring the muzzle to the right, and the tmist should be to the left so ats to connterat this. None of this would apply now with the slight re-
coil of montern rifles. In ticte the subject of the direction of the twist appears to he of little importance.

Socont. . The rear siflet in tow tar from the ese in men properly sraduated and has bow wind game

For ranges moder gall yard. the sizht notel of the new arm is about two and one half inches further from the butt-phe than that of the Buttington sight: from dill gadsup. it is only ahout a quarter of an inch beyond the noteh of the latter sight.

The position of the sighting moth for the short rangex (o) ald be brought nearer the eye in three ways: 1. By using the sibte noteh for all ranges, and doing away with the steps. $\because$. By movine hack the sight base an inch or more. 3. By putting a sightine noteh on the top ot the slide, where the leaf is hat, as in the oh burk horn sight.

It the first of these method could he adopted with the prement slide, the rertical distances, correoponding to a chatige of 1 lin rards in the shorter ranges. would be about one twentieth of an inch. and the slide could wot be retalily adjusted. With the steps, if you come anywhere within half tan inch of the distance your sight will have the proper elevation. It is recommended by some $\cdot$ battle sight axtremints" that a fised sight, corvect fors. say 350 yatds, be used tir all distances under fise hundred yads. and that then the leat -hould be raised and used.

In ressated to the recond of these methods. the movins back of the sight base, I would not do it. The piece has to he carried and hambled as well as amed. In action it would be carried nathrally at the . babance." i. e.. where the rear rivets of the hand guard are situated, and this can not be done if the sight is moved back. The hase of the rear sight gets wo hot after twenty-five to thirty shots fired rapidly, that it will burn the bare hand, and as there is just rom enough now tor the hand between the rear of the base ot the sight and the forward end of the magazine gate, the very slight gain in accuracy at whot ranges, would not compensate for the awkwardness and atrain on the wrist occasioned by carrying the piece with the hand above the sight. There would be more danger too. of burning the hand on the forward end of the sight base. holdines it in this way, as the sight would be directly under the hand.

The third method suggested. viz: That of putting the notchon the top of the slide, as in the old buckhorn. is, I think. the best way of meeting Lieutenant Lros's objection. in case it is acknowledged that a defect exists.

The graduations of the rear sight were not at first accurate, but the error was corrected by raising the front sight two-hundredthe of an inch. The Inspector of Rifle \#ractice, Department of the Missouri. in reporting on the new rifle after the last army competition, states that the sight was much more accurately graduated in elevation than the Buffington sight. There is still room for improvement. however, and it is believed that when che carbine is issued the srad. uations on the sight will be corrdet.

There should be no wind-gapge until one is devised that will neither complicate the sight noif intertere with its usefulness at all times. If would be hard to impore upon the Buffington sight as:a target sight, or to invent a wrope one for field service of cavalry. The small field of view, the liabilfty of the sight to be bent back or disabled by a blow from the front, the rusting or sticking of the wind-gauge and slide-binding screws, the loosening of the slide-recoil stud, the time necessary to adjus the sight, are its principal detects. Its advantage is great accuracy when you estimate the proper amount of windage, and have plenty of time in which to adjuat your sight and find the object fired at, provided, of course, that you can adjust it, and that it has not jumped uh or down since the last shot.

For field service, the new sigh on the rifle will he a vast improcement on the old. It is a simple, stout, broad, open sight; it does not jump up or down duriug fiting, and can be readily adjusted. For the carbine the principal objection to the sight is that the slite projectes so far to the right as to make it liable to catch when the carbine is thrust into the boot.

Thirl. "The magazine must be charged singly."
Norway and Denmark, which use the Krag Jorgensen system, both have a cbarger or clip, holding five cartridges, for the purpose of recharging the magazine. Wo have models, but for some reason none has yet been adopted in our sersice. With one of these chargers, the magazine can be refilled in less than three seconds. This time includes that of opening the magazine gate, taking charger from the pocket, loading and closfng the gate again.

Fourth. "There is no appareht reason for each man carrying a ramrod, as the gun cleans itself."

Greater care than formerly nust be taken in cleaning the gun after firing. The action of the gas daring firing, and the residue of theismokeless powder after firfgy is such that the gun must not be allowed to stand for any length of time without cleaning. Rust forms if left even for a few hours. The barrel should be thoroughly
deaned with a ras saturated with swata water, dried and thoroughy greased with cosmoline. Although it is trae that the gan does clean itself, this way of cleaning is not we recommended to the service. as accumulated rast in the bore would have a tendency to swell the barrel. if not to burst the gan. I have fired one of the new riftes a thousand times in three dars without cleaning the bore or mechanism in any way, but this was done for the purpose of testing the capacity of the arm. There was a marked falling ott in the initial velocity of the projectile when the weapon was tired for the firt time after being left over night without cleaning: a mamrod, then, in a necessary article.

As to the manner of attaching the ramrod to the stock, a close examination of the method of putting on the knife-bayonet might indicate the reason for not having the ramrod held in place as it was in the old springtield. In nearly all modern rifles the marod is screwed in.

Firth. . The cat-off thamb-piece should be of bright steel or nickel plated," ete.

This suggestion is a sood one and has alrealy been surgested to thowe having in charge the manofacture of the new arms.
sicth. "There is danger in having cartridges jam in the chamber, especially if a soldier confuse the two functions of the tun :1 a magazine and single-loader.

Any arm incented will jam if you try to introduce two cartridges into the same phace at the same time. Human insention cannot rery well overcome blis jamming. but it is not the double - oading that is especialye to be looked out for. The jamming that can be avoded is that which oecurs after forcing a cartridge partly into the chamber wo that the extractor does not seize it. then drawing back your bolt and forcing another in. In the latest moled of our gan (the Norwegian 6.5 mm.) this danger has been overome be cutting away the head of the bolt on one side and extendine the extractor-book so far to the left that as soon as the cartridge leaves the magazine its heal is srasped by the extractor and if then you withdraw the bolt. preparatory to pushing up another cartridge, you will draw back the first cartridge which will be thrown out by the ejector be fore the second one can be reached by the head of the bolt. This change could readily be made in our gun.

Haring considered the criticisms of Lientenant Lros, I wish now to offer some suggestions myself. They are made with a view of attempting to improve the gun. and not with the idea of criticis-
ing merely because it seems to be the fashion to abuse the new rifte, which has had a hard time at the hands of the "kickers" ever since its issue. I have examined carefally the leading arms submitted to the Small Arms Board, and opnsider the new riffe superior to any of these for our service. There are. however. several amall changes that could readily be made. and which would improve the arm considerably. Tbese minot defects, discovered while arming the infantry, conld not well be forrected then. owing to thelay that would have ensued, and confusio of models, but as the caralry has not been armed at all, and will not be until after May. a few. if ant all of these defects, could be easily corrected before that time.

The following are some chanden that. in my opinion, would improve the new arms:

First. Reduce the Weight, The first thing one notices on com paring the rifle with other foreigh arms is that it is much heavier. The weight of our rifle is 9.4 pounds without the bagonet: that of the carbine $\mathbf{7 . 6 5}$ ponnds; that of the best foreign fiftes atout sif pounds, and that of the Berthier (French) carbine 13.6 pounhs.

Now, although it is not thought that a ritte of our caliber and system can be reduced in weigh to that extent, still it is believed that by gauging out and cutting off uselens metal and wood. the weight of each of the arms can be reduced halt a prumb. In the new Krag.Jorgensen rifle of Noryay, cal. 6.5 mom. useless metal has been removed, and the stock bored and ganged out in certain placees. until it only weighs 8.7 pounds of under.

Second. Change the bolt-herd alnd extractor wo as to prevent dionhle, londing, as in the new Norwegian gun.

Third. Reverse the action of the cut off so that when the thomb. piece is docn the weapon can be used as a single loader. and when up, as $\boldsymbol{p}$ magazine arm. Make the thumb piece more noticeable by leaving it bright.

Fourth. (a) If any correction for drift is to be made, the sight should have this correction at 600 yards, and again at 1.100 amd 2,000 jards. With this correction, eliminating other influences, one would phoot to the lef of the target at all ranges under 1.0 mo yards. exceptiat con, and would not cross to the right between 500 and 6,01 yards, ias with the present corredion. This method seems better than having no drift correction at all, as it reduces the drift to a very smaH amount in all cases. Beyond 1,000 yards, a soldier will have more time to think- about the probable error, than at the shorter rànges.
(h) The cross-bar of the leaf should be raised shghtly. and a
 fill benetit of the bengith ing your sight an there is no notch on top. and beodes when the slide is at the 1.900 yards elevation, sou can not sight through it. The ane yard noteh should also be mathe of wome une. At present beth the notehes tire ion and for 1 .gno sards are meve decorations.

Fith. The outside and insile edges of the barrel at the muzale should he rounded oft. At present they are sharp and any blow with a hard instrument is likely to turn the edges. If this should happell to the inside edere, the batrel would probably swell at the mazzle on tiving : if to the ontside edige the bayonet condit not he readily put oth. The edges of the sprinetreld and all modern rithen are mounded in this way.
siath. The hand-guavd should be extemded the rear over the forward end of the receiver and it rivets countersunk, or done aws. with. The hated-guad sent out on the new ritte is almont ureleos. In firing, the risets holding the springs and the forward end of the receiver soon get hot enough th binu and on should be kept away from the hatod. In the Mannlicher (Roumana , these rivetmare dobe away with, and the springs fastened to the suard by means of small arews. The guard extend back owe the fowarl end of the rereicer also, and taken as a whole. it is the best type of hand grated I have seen.

Spenth. In the carbine, the ramrod should not project beyoud the stock. but should either be cut off and arranged as in the burthier earbine so as not to project at all, or it should be jeinted and warcied in the butt. As it is, the projecting end is sure to intertere with putting the carbine into the boot.

Eighth. In the carbine. that part of the sight-slide projecting to the right should be protected in some way or changed, and another slide adopted.

Winth. The cocking.piece should be altered slightly wo as allow the safety-lock to be turned to the right when the piece is not cocked. This would lock the bolt and prevent ite turning and becomins loose while handling the piece or while carrying the carbine in the boot. To lock the bolt as the piece is at present, the piece has to be cocked first, and consequently the main spring is kept compressed as long as the bolt is locked, and this, in the case of a cavalry command marching day after day, would not improve the condition of the spring. The Mauser rifle allows the safety-lock to be used at both times, as suggested.

The question of caliber and the ballistic properties of the rithe have intentionally been omitted from these remarks and suggestions.

The recoil of the new carbine will be about a pound and a half more than that of the oew rifle, owing to the fact that the same ammuntion is used and the weight reduced nearly two pound-. It will, howerer, still be about one-half what the recoil was in the old carbipe. I refer to the theoretical recoil.

Fpr the information of some, who apparently are not aware of the, foct, the new rifle is known officially as .. The C. S. Magazine Rifle, Model 1892," and not as the "Krag-Jorgensen."

Sprintified armory, Mass., March 1, 1895.



0
 officers ride of 100 versts, which wats undertaken with the arowed intention of affordins a test of speed. This ride. which attrated the attention of all interested in military sport. was organized hy prisate subseription between the otticers taking part. A, notice concernins it had been sent out only a week in adrance and as many ot the homes had not heen trained. there were only nine par. ticipants. Ot these nime one catme from the Horse Guars, three from the Guard Ataman regiment, one trom the Gatad Lancer and four from the Guard Hussar-

The conditions governing the contest required the tart and finish to be at the Moscow sate the route lying through artain spectifed villages and including two hills E English or eavalry saddies were whe ased the riders beine at liberty to choone their ww gait, to halt and to dismont as they saw tit. Judgew were apminted fin the purpose of observing the race and the relative order of the conterants. To avoid interterence and unnecesarg wory to the horses, it was arranged that the riders should start in pairs at fifteen minute intervals. the first pair otarting at $\mathrm{i}: 31 \mathrm{~A}$. m .

The weather contributed to the success of the race the temperature being $2: 0^{\circ} \mathrm{F}$. in the morning and growing sufficiently warm to melt the snow somewhat hy 3 p. m: there was little wind. The day was clear and bright and the roads good. The straightneres of the road permuted the riders to beren by the judges a long distance off, and while the roads were on the whole, excellent and easy on the horses feet, it was observed that in places the now somethat impedod rapid progress.

To witness the arrival. the judges assembled at the gate at $3 \mid \mathbf{P}$. M. Among thent were Major-General Prince Wassifemikov, commanding the Guard Hussars. and Major General Grekov. commanding
the Gtard Ataman regiment, and also a number of officers of the Guard Cavalry.
"Georgetta," a gray mare from the Yanov government breeding farms, half-blood, eight years old, arrived first and quite fresh, having made the distance in seven hours seventeen minutes and ten seconds. The next to come was "Grad," a light bay Anglo-Arabian stallion, eight jears old, from the Strelitz government studs, be arriving at a remarkably brisk canter in seven hours and nineteen minutes. The third to arrise opvered the distance in seven hour,and fifty minutes. The slowest, $h$ dun gelding, nine years old, made the distance in nine hours and nipeteen minutes. One of the horsea thoroughbred, gave out at the sixtieth mile, and had to be led.

Besides the interest of the owners in trying their horses on a long distance ride, this race affords a general interest in the comparison of the breed and the training of the animals. Frestest of all, as was ascertained at the finish, when a $1: 200$ yard dash was made at full speed, were the Anglo-Arabian stallion "Grad," and the half-blood mare "Georgetta." An English half-blood and an Arabian thoroughbred also arrived fresh. The above borses had been well trained for the work, and had beton fed twenty quarts of oats daily previous to the race. Two days before the race "Grad" bad made forty-six and one-half miles in six hours; he had also been ridden a little the evening just before the drial. The tired thoroughbred was but little trained, although exerched every day, was of a capricious, and stubborn disposition, and cold never eat more than fioutcen quarts of oats per day. He receided only eleven and one-half quarts daily before the race. Moreorer, in consequence of the narrow ness of his hoots, much snow dlung to them, and impeded his progress. Last came the "Don" horse, which bad scarcely been ridden at all before the race, and which never ate even eleven quarts of oats per day. The other horses made a normal speed of about eight miles per hour, due to excess of fat and irregular riding.

The leading borses traveled so that the first eight miles were made in forty-five minutes at a trpt and walk, as follows: Two and two-thirds miles at a fast irot, then 1,200 yards at a walk, then three and one-third miles at a trot, 600 yards at a walk, and a mile at a fast trot:- In ascending the hill the rider dismounted and led. The next eleven and one-half miles wefe made in an hour and a quarter, observing the same order of gaits; then followed six and one-half miles at a slow trot, two and one-half miles at a field gallop, and one and one-third miles at a trot. The road here was very bad; there were deep ruts in the middle, and considerable snow on the siden.

When the ride was about halt completed a lithe hay wan fed (ieorgetta" resting about ten mithtes for this purpone. " Grad five, and the otheratwo. The next six miles were traceled at a field grallop, and all the horses were givell a drink of water. The homen now grew risibly tired. "Gentecta" having to be urged rey often: - Grad" went eavily at a trot althoush often breaking into a gallop. At the sixtieth mile one of the homes sopped, and in spite of rig
 "Crad" went on alome at a very show trot and a hathd sallop. The tast 1.201 gards were made at full opect. "deorgetta" in the tead

Strictly spaking. such results misht hate heell expected. of the three horses mentioned. (wo) were well tramed. the thind batly. trained and badly fed all of them being ot good bhod-two Englivi and one Arab. The most energy was shown by the Aral, "tirat. which requived no urging, while the othere had to le ared ath even obipped. The $\cdot$ Ibon" gelding was also interesting. De went on comparatively sowly - slower than any other with loose reinmoving his feet mort phegmatically. Instead of going at mill spers at the finish, he starcely answered the call of his rider. In semat his want of bood was shown by the apathy of his movements: his want of training. by his slowness atd great fatigue.

This competition is the tirst experiment here of a long distame race for speed. Every cavalryman, and even mon-cavalryman, knew that a borse could make 160 versts in a day, hat experience was necessary to know the number of hous required and the gats to be adopted, with a view to preserving the strength ot the horses Although the experiment was dangerons for the horses taking part. considerable love of sport and emulation were shown in this trial. The minimum time required was seven and one-fourth hours, and it may be considered almost impossible to cover the distance in less time without wearing out the borse, a thing unworthy of a caralryman

It is unfortunate that this race was not more carefully organized It ought to have been arranged earlier. in order that those taking part might have had time to prepare their horses for it, and judges ought to have been posted, if possible, at every cross-road. During this race two competitors lost their way, one of them making six and one-half miles more and the other less than the one hundred versts, so that both lost all claims upon prizes. Finally, the horses and riders ought to hare been weighed before and atter the race and a weight allowance ought perhaps to have been adopted. Under these conditions such a race would have awakened a much greater interest.
[Cops]
EMB...trin.

Heremy Ohithe -

1. The cavalry carbine will h. carriod sumpated from the sadile, per-pendi-dar to thes gromal, he him the rizht thish
2. The lower ring on thesworit abland and the corrompoding strap on he belt will he dispensel with. b. an loner regolation
$\therefore$ For the hetter arranzement if the trupers corthing on the horse.
 allopted.
t. The alterations and new olnipment-will he: acording the the pattern
 ne exsary stepe to cirrre this intoreffert.

WhIJIAM.
Ti, the Wirt Miniatry.



 command of the seloogl upon his promotion. This sehool is of such vital interest to the cavalry arm that it is deomed advisable to present extracts from this report. The experience at Fort Riley is in no wise exceptional as resards the ditiedties encountered in ex. tablishiner aserveresehool in the lnited states. The histories of the Military Academy at West loint. the Naval Academy at Annapolis, the Artillervishool at Fortress Monme the Infantry and (avalry Sehool at Fort leasenworth, amd the 大aval War College. are all replete with diaheartenior dificulties arising principally from indifference and want of appreviatinn on the part of those in anthority. who have the power beitalize the effortw of the com mandants of these various institutions. 'The growth of these establisbments has been slow. \&ralual atod in opposition to inoumerable obstacles. Everythins rombered with their adrancement has been forcel alone lines incolving compromise and expediency at every step. There is nothins akin to the womlertinl establishment of the
 nia. Men of wealth and owners of time libraries do not remember these strugerling institutions in their bequests of money or books. The generous will of the late Geberal ('rasem provided the first gift of importance to Weat baint at a eomparatively recent date The lack of funds in schome ot appliation is more seriously felt than in ordinary academies. for oxperimontal and practical outdoor work require expenditures for material far in excess of the needs ot schools conducted principally on the line of theory

The conditions surrounding the army in the Vaited States have been gradually but completely changing for many rears past. While courage and aptitude for the profession of arms will. in the future as in the past. exercife a marked influence upon the fate of any people modern science demands that those who connect themselres with the
milithry or naval service of any great nation shall acquire a familiar. ity with a multitude of inventions and improvements beyond the wildest dreame of the squirrel rifle age in America. It is impowible in these modern days for any one individual to perfect himelt in many branches of even a single profession. It is then to the $\cdots, 0 m$. mandant and staff of the various schools to whom the govermment muat look for schemes of instruction fitted to the weeds of the country. Experience from day to day is a better suide to pertiction than any other method in the cases of post-graduate sehools. becauce the students are, as a rule, men of education and ability, and interested in ererything connected with the elevation and adratuement of their own arms, as well as the service in general. It is a matter for regret, therefore, that all recommendations cannot be passed upon promptly, and habitually with approval, and a supply of fundusually necessary to give vitality to most proposed improvements.

## EXTRACTS.

"The schemes of instruction and detailed orders for the government oi all cavalry instruction and of combined exercises were printed in extenson in last yeard report. The work done this year was so similar in all respecte to that of labt season, it is not considered necessary or desirable to republish thanc. schemes or orders, but as the character of the benefit derivable from tiellh . $x$ poblizhed to the school this year, they are here reprintedi in appendix ${ }^{\circ} \mathrm{C}$ :
"The plan it was intenderi to pursue with reference to these comments was to print and distribute them to the combuand. Once a week all officers wrere to be aasembled, and after the reading of orders, reports and comments upin each exercise, discussion of the same was to be hall.
"I cannot close this report, however, without inviting attention to what I bgliete to be a most important auxiliary to success in leriviny a maximum benefit from tield exercises, namely, their thorough and proper discussion after execution.
"Except as a record of experd recommendations. making of recommendations in printed reports seems of little utility. Pursuant to the provisions of the order extablishing the school, I last year thus set forth its wants, but so far as I am iniormed, no results were consequent
theretipon, nor have I yet learned whether the recommendations made and the system of instruction outlined therein met with the approval of my superiors or the reverse.
"Recommendations frequently and repeatedly made have seemed to exercise no influence, and serious impediments to the success of the sehool have continuous lack of sufficient officers for efficient instruction, and the appar-ntly unneceseary detached wervice of officers and organizations. On several cricisions the nnmber of officers available for llaty with troops was no suall that
ficers' patrols were necessarily sent out ynder non-commissioned officers.
"Twice within twelve months the same squadron was sent on detached service in the midst of the schcol season, thefely greatly derreasing any bentfit which might possibly have been derived fron a complete and systematic courge of instruction.
that in both instances there was, be uentioned here were it not for the fact which was apparently available for this detached duty, and not engaged iit any special course of instruction.
"Bince the school existed, troops composing it have never joined at the
meason of the year which has been recommended by the commandant and season of the year which has been recommended by the commandant and
approved by the War Department. but have becuoritered there at all seagons,
irrespertiveof the effect upon their instruction. The tirst squadron to join after the school was established after having leen sent on detached service twice within
expired.
"In other worls. the interesto of the sethool appear to be asigned a position
subordinate to most other considerations incident to the service. sulordinate to mont other considerations incilent to the service.
such conditions are not calculated to encourage those charged with the welfare of a goung institution st rughling for recognition commensurate with its importaniee to the survice and it is useleses to expert any satisfactory amount of suctess as long as this polioy is maintained in the treatment of its affairs.
" It will orbinarily be impusible to find four troope of one regiment so -ituated as to make it both desiratpe and convenient to order them to the

"The ditticulty of petting troops rhanged with regularity and at the proper a ason.and of keeping a sutticient namber of officere on duty with troops, witl cavaloy persumbel is matintained.
"It would le comparatively easy to annatly tind se veral tronps no more than whe tu le taken from any regiment that could he waveniently orilered

"The above mentioned dificulties would, therefore be cheountered inuch lese freditently, if ever at all, were my recomamendation of last year adopted. hanely, that but one troop be taken from each requent until iwelve, insteal of eight troops are stationed at the sebool. when two of the regiments should furnish two wach. These troops conda also then be raised to a war strength, another very desirable consineration a hich has heell previons represented, winld be detailed from the entire list, thus secoring those most suitable.

- I will abo her". renew a recommendation that I have several times made, in one he permitted to perform their first var of service at this sehool. It seems caperially appropriate that additional secomd lieutenants be given their first service there, as it can not he known to what resimente they will tinally be aswigned, and Fort Riley is as central a point irnm which to order them to permanent stations as any that could be tound. Thes could lie attached for duty to regiments having troojs in the behool
"If all otficen assigned to the cacalry could not be orcered there for one rear's duty, at least a sufficient number should the sent to enable the com mandant to sujply each tropp with three officers for duty at all times. They will derive fat preater benefit than from service at an grdinary post not posing of a young otficer with proper ideas of his duty is of great importance.
"As the matter of expense has seemed to be a frst consideration in the changing of tronpor duty at the shool. I would respectully submit a further modification of previohn recommendations with a view to dereaning sain
expense. Instead of changing trompe every three years let each tour of duty
 troope each year as long as only eipht are in the school and three per year when it consiste of twelve. In orfler togive as many officers the benefit of the course as possible, however it is thought the subaltern officers should be chanked every two years if this recommendation be adopted. Two years is sufticient for a
af instruction.
"A large clock with sweep secomd hand for timing horses at the regulation gaits, and a large mirror for thaking plain to unskillful riders faulty positions
"The rendering of reports upon tiell exercises and manetavers requires
time for their proper and careful preparation, and is a most important fature of the instruction. There should, therefore, never be had, in my opinion. more than three geld exercises or pombined maneuvers per werk. It is
belleved that from twelve to fifteen of each of these, and six regimental and belleved that from twelve to fiftern of each of these, and six regimental and
three brigadedrills are all-sufficient iotetheient instruction. The period irom three brigade drills are all-sufficient iodeetheient instruction. The period irom September 15th to December lst would afford from fifty to sixty working days ample for the requirements of the above instruction, and allowing some for thepossibility of hoss through bail weapher or other emergencies. Ceremonits 20th, could be utilized for matters whinh hail been crowded out durins the season by accidents and exigencies of the service. Is a rule, however. I be lieve it for the best interests of the arvice that all schonl work shomid bin completed by December list.

Extracts from comments published to the commamil upon eom bined martavers at the school duhing November, 1sat

T- The Blue Battery unlimbered on that sloper of a hill which was next the outlined enemy, and stood on top of the crest firing, entirely exposed the the assumed fre of the enemy. It shoulh have uniinnered on the reverpe sloper and running guns forward, stopped af far behind the crost as possible, antil
still be able to fire over the top. Horsus, limbers and caissons shomlid alway still be able to fire over the top. Horsha, limbers and caissons shomlid atway
be afforded all protection practicable, Hithout sending them so far away as interfere with prompt service of piece. 1
$\$$ The primary duty of advance gnapls is to push the enemy back. and by at continuous forwarl movement, to avoil Jolaging alvance of the main borly The reserve and battery were slow in ohowng the retrating enemp. Thi him long after it should have been lin werel ap and in purvuit aing al "The leadur of tha

The leader of the extreme advange point continued twalvance with only four men on a flag representing a trop instead of rejoining his tronp after having advanced to within dangerous proximity of the enomy
"The officer in charge of the flags sefyeral times stome still recoi ving charges instead of either making a counter chape or retreating in good seasou. The fags were siso allowed to bunch up, wing they should have been kept as far
apartas the requirements of the tactic units repres nted would necessitate
if actually present.?

It should be understood that a dommander fails in taking advantaye "if all his opportunities, who fails to avail thinself of all the cover othainat,l. withaut a violation of his orders, and that no exposure should be ineurred which is not necessitated by orders or plans.
"Whenever it does become necessafy to expose commanils to tire, it shomlil

"Signal men, in sending messatges to the rear, took positions so expospel that messages sent could be read by the enemy as well as by their oun forme Flags were also carried unfurled, makipy the bearers conspictopus marks. and unneqessarily disclosing the position of their own side.
"A tendency was obeerved on the part of Hankers and points to remain practically stationary, and in exposed positions, while being fired upon by mounted firing was also uselessly indulged in. Such fire, at areat but very close range, is mainly useful to warn friat oi the near approarh of the urer
"For purposes of instruction it would have been better had the flass lee. mane vered less rapidly. The gait wis so rapid and the simulated action mo fast and furious as to afforl no opportunity for well considered and orderly from the commander of the rear guarm. The maneuver was therefore prict cally woid of results in the way of indtruction, tut uight be considered an indication, to a slight extent, of what the rear guard of a badly defeated and routed army might orlinarily have to expect when pursued big iresh cavalry of a bold and victorious enemy.

 resilt, as they have whereber thatiar tried, in disappointment.

- Fien had the rait leen leos fast it is houbtinl if much better resulte would have heen reabian. Charging with flase was lemonstrated to be of doubtfal utility, and it is believed that abont the only way to serure systernatic and
 ontrille. be one commander. In this manner, after sending a tag to a cerration and reputed with pecisine this particular feature wompleted another conll likewise he planned and exceuted. This, however would amonnt to hat a litte more than training in tatte firmations and in methods of approach and attack, an instrmenn which seems a trithe elementary for cor purpme.

It is thmont toommeh dismounted action was induged in, and ane Brown



 -ntirely $\quad$ xplone.

The led horses oi the -upprert the hattery were at ond time piaced about lime yards imme liateis in the rear of the hatiers. an exerelingly fanlty ?"sition, when the battery is under tire. As a ruke a a protuted posithon on


These exhibits are fom comments male by (ieneral forsyTH
 'The day is not tar distant when the army will be deprived of the

 their critieism- made upon matmedere exereted at the sehoole or campsof instruction camot have wh her than a benededal etfert upon the gounger qeberation, which must at wo distant period compose the great bulk of the army. ofticors and ment

The followine letter wan reently reveiven at the headeruatery ot the sevonth lavalry and at ane ming of the otiteres subsequenty
 Last Fight" on behalt of the reriment. The pathting originally eost S*.00m, and was exhibited in all the large eities in the West during a period of several years. There could be no more fitting home for this painting than with the healynarters of the regiment, no mans uf whose officers and men tisumd a soldiers arave mear the little Big


Sir. Lomis, February 1:3, Isg. * C.,h,wel E. V. Sumner, Colonel Cummanding the Serenth C.S. Cavalry Regiment
"Str:- A fen years agu we camre into posession of the fatnous painting, "Custer = Iast Fight," painted by Cosit. An Ans. This painting represents, sallant regiment in the batter in which he lose his lifi, and it lias long i,eet
 to the S.erenth L゙. S. Cavalry

In his opinion it is eminenty proper that (ieneral (istres regiment shonla the the pateser of the panting which rummemorates the death of its iamons leader, one oi our firemost avalrymen, and also whe of the mot im-
old. He was graduated at West Point, July 1, 1Fe- and entered the service in the Sixth Infantry. He served on the frontiar fomm Font Snelling to the Arkansas River, and participated in the Blark Hawk War prior to his promotion to firs lieutenant of the First braspoln, when that regiment was organized in 1s:33. Hf service in the cas alry began, as it were, at the bith of that arm in this country : the more than sixty gears which have elapsed sinck that dat hatw de. veloped many excellent officers, but not one who has been hatid it higher esteem as a beau ideal df a cavalry offerer :and genthoman His profensional career has extended much peyoud the aberate lengeth of life, and includes an intinite variety of ©rrvice thromehomt the Wentern country.

He participated in Indian and exploring expeditions willont number. In the wonderfal math of deneral Marsers commanal. from Fort Leavenworth to Catipmia. in 1 stti. he was detached to move down the Rio (irande and to find a practicable route th dic. West; he succeeded, and his trail was subsequently known as th. old Cooke Road, and was used an a mail ronte until the building of the Southern Pacitic Railroad ahong the same line put all eand to its usefulness.

He served in California aftertits occupation, imt was pomitell to majur Second Dragoons, and joined the army in Mexico: upon he closo of hostilities there, he wasprlered to Carlisle Barracks. Denul. close of hostilities there, he wasprdered
as superintendent of recruiting mervice.

The large Sioux expedition of 18.5 found him back on the Plains in command of the cavalry portion of the column. He was employed in Kansas during the trying disturbances of 1 s.tit and $1 \times 5 \mathrm{~F}$, and when the Utah expedition wan organizel, he was assigned to comb. mand the cavalrs.
 afterd prepared his cavalry drill book, which was adopted in $1 \times 61$

Upon the outbreak of the Citil War, General Cooke, a Virsinian by birth, remained loyal, notwhetanding his son. Guenem Joms Coore, and his son-in-law, the colebrated cavalry leader, trederal J. E. B. Stuart, both joined the Confederacy During the Penin. sala Campaign he found his command opposed at diaine- Mills b. troops commanded by his son inflaw.

He was brevetted major-general for nervices during tho wat. and was retired after forty-mix years of active service, IIi- rarew furnishes an example of loyalit, professional rectituche and conscientious derotion to duty in it highest sense, which may well be followed by young officers.

## BOOK NOTICES AND EXCHANGES.


 worth. hansas. 1s90
In theory the casalty officet should be a math verend in every thing concerning the horse and the tate that he is not presents one .ot the anomaties of our - satem of military traning fintil recently - ur most tavored officers. not beineselected on arount of any pectiai aptitude, and otten being ditybed south- without a knowledge of lumsemanship berond that taught ai then Point. Were left to them relves to piek up all the little hetailo of service outside of drill and rinting. They were wot toh what hey hould know or where they they might learn, and a few men will wor acknowledge that they du inot kow everything ahout a homere the roult was not goond A Cortain haman weaknes. or drat perhap ot the riticiom of wise turn. often presented the youns -ah then takins the trop tarriey

 animal which, more than hiverapon- of his att will intuence hia



 sanizers of the lonited state- latantry and casahry school to coin the word Hippology and to chown as iext hook- the Einglish work
 Sather Bite and Bitting. The firat of there is -athe of an Englinh dimate trom ours, give the managoment ot the tathe ot an Enghinh
 a literary model that ha- disapparen trom bura howk. Both are
 a text tumek

To replace thene lowk- and to gise intiomation wh subecta Which are mow ackumbledged whe a necesary part ot the protion

book. For instance. the chapter on . The cavaly llawe wist-
 all doubte as to what is lesired in an animal destimed tor -rybure i the ranks. A study of the diapter on .. Histand awd Jhiari... should make one feel at leant cil an equal platw with .every ind ... dier in the troop. in matters whirh ratl tire his lecisum erem as The'comparison ot our equipments with thome of ofher natorn is intereating, and shows that wedure, in somer renpects at hast hellot intereating, and shows that whe chapter on $\cdot$ Fonage" ought to be of ane
 many a boar
contractor.

These things, and manc othors. ought in reommand the lan the service. After what we havk had, even a joor howli wirnt :.

 is so well sumed ollusimed wo will witten and arramed. dhat is
 success is assured.

Napoleon Bonapartés First Campalins. Hy Lientomant II H Sargent. Second 'avalrydf. S. Army. Published by 1. Sargent, Second Cavatry
McClurg \& Co.. Chicago.
"Napoleon Bonaparte's First Campaign" is the title of a raven addition to the Napoleonir literature, that deservesa gomdrowpion addition to the

 instructive manner: and whine his wing to the general realer. is valuable chinfly as a slume of
 in, possibly, the most instructive campaign on rumel

The author states clearly thif main features of the athlatizi. The ausy for his purposes-and refrains. wiselv it in thollaht those neceseary for his purposes - and defactions am than alan-al ia from marrating anything else fis deductions and hat hats. whill the clearest light, and are not obpeured by atman "t reinde, wims however interesting, wonld serte only to divert the ramer - mhat from the matin point which it is intented 10 illontrate ar th pacos. Conciseness and accuracy of narative art followed by taifoc. reasoning, and somudness in deduction: abd the conc-lasinns de.ince. are still farther supported hy qugtations firmins sumbinent athlarities á Jomini. Mamley and others, incladinis Sapwleon himadt The sientific character of the work may be infermen from the tac:


## The Mintaber-Wucuen biatt.

No, 1: The New Field service Requiations. On the Trainine aut Instruction of Cavalry. No. $\boldsymbol{z}$ : The New Field Service Regnlation (concladed). On the Training and Instruction of (avalry. Su. Training of the Russian Field Argildery in Firing. (Win the Tramaths amd Inntruction of Cavalry'. No. 4: The Training of the Rusian










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The Story of Alcatroz. Lientenant Nvin II Sratenham. III The Decline of silver as Compared with tiohl hy Lielltenant $W^{*}$. 1 Qampbell T:SA. IV: Origin and Developllents of Stoam Navi cation. Rehr Aimiral George Ih. Preble. I". S. .
 uary. 1s!\%.
Whashington atter the Revolution, 1تーt to 15:!! hy William -
 fermey of Philatedphia in 1757. his W. Fumd.

The Maine Bugie. Januaty, Is 9.5

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## JOURNAL

## UXITED STATES CAVALRY ASSOCIATION．

Vols．Vili．

JIFE ANI）SERVICES OF GFNERAL．PHID．IP 太T．（iEORGF COOKE．U．S．ARMY．


T＂HF death ot Gemeral Cooke on Marela 20th of the present year （ losed a career of service remarkable alike for its length and for its variety His original commission was dated nearly sixty－ eight years aro，and the period envered by his service as an oftocor exceeded that of the arerage life．He was commissioned in the tirst resiment of mounted men in the regnlar army，which was organized as the First Jragoons in 1s．33．

When it is remembered that for a quater of a century or more after Gencral Cooke entered the army the sehool georiaphies elimi－ nated much speculation by elassing the Western Plains as＂The Great American Desert，＂some illea ot his fromtier service may be formed．

General Cooke entered West Point in 192.3 ，and the simple records of the grovernment show that he was promoted．upon gradu－ ation，to be brevet second lieutenant of infantry and second lieu－ tenant Sixth Infantry on the same date，July 1，1s27．Sorved in garrison at Jefferson Barracks，Mo．．1ニューージ：Fort Snelling，Minn．，

1828; Jefferson Barracks, Mo. 182? ; on frontier duty, expedition against Comanches, and engaled in skirmishes near the [Yper Kansas River, August 3 and 1. 1829; Fort Leavenworth, Kall.. 1830-32 ; in Black Hawk War, 1832; participated in batte of Bad Axe River, August 2, 1832; Adjutant Sixth Infantry. Septumber 7 . 1832. to March 4, 1833; Jefferson Barracks, Mo. 1s:33.

Promoted First Lieutenant First Dragoons. Murch 4. 18.3.3. Fromtierduty Fort Gibson, I. T., and expedition to Fow-e-ash villages. 1834 : recruiting service, 1835-p6.

Promoted Captain First Dragoons, May 31. 1s.3.8. Frontied duty Indjan Territory, 1836-37-38; Carlisle Barracks. Pa.. 1839: Fort Wayne, I. T., 1839-40; Fort Leavenworth, Kan., 1sto-41-42. encorting Santa Fe traders, 1843; captured a Texan military expedition, June 30, 1843 ; expedition to Pawnee rillages, 1 A 44 : exper dition from Fort Learenworth through South Pass Rocky Mountains. 1845 ; Fort Crawtord, Wis.. 1846 ; expedition trom Fort Leavenworth, Kan., to San Diego, Cal., 1846; in command Battalion Mis. souri Volunteers in California, 1846-47.

Promoted Major Second Drigoons. February 1f;, 1s;í. In e.om. mand of Second Dragoons in Gity of Mexico. 1848; Superintendent Caralry Recruiting Service; Caflisle Barracks, Pa. October 15. 1~な*. to October 1, 1852; on frontien duty, Texas, 1853.

Promoted Lieutenant-Colonel Second Dragoons. July 15, 1s.5.3. New Mexico, 1853-54; skirmibh with Apaches at Agua Caliente. N. M., April 8, 1854; Fort Leavenworth. Kan., 1854-55: Sionx expedition, 1855, being in command of cavalry at action of Blue Water, September 3, 1855 ; Fort Riley, Kan., 1855-56; on duty during Kansas disturbances, 1856-57; commanding carally Vtah expledition, 1857-58.

Promoted Colonel Second Iragoons, June 4. 18:\%s. Leave of absence in Europe, 1859-60; command Department of Ctah, August 20, 1860, to August 8, 1861.

Promoted Brigadier-Generah U. S. A., November 12, 1861. Command of brigade regular cavalry, Wushington. D. C. November $\geq 8$. 1861, to March 10, 1862 ; cort mand of Cavalry Division, Army of Potomac, Peninsula Camprig, March 24 to July 5, 186?, being englaged in siege of Yorktow ${ }^{\circ}$, A pril 5th; battle of Williamsburg, May 5th; battle of Gaines' Mill, June 27th, and battle of Glendale, Juuie 30, 1862; court-martial duty, July, 1862, to August, 1863 ; command of Baton Rouge District, Department of the Gulf, October, 1863, to May, 1864; Superintendent General Recruiting Service. May 24, 1864, to March 19, 1866; member of Retiring Board, De.

 Board. 1atia to May, kria; in command of bepartment of Cumberlami. May. lata, to May. Lall: in (wmmand of Department of
 atter more than fortysix years ot atote sorvice Receised the brevet of Major-Goneral tor sallant and meritorious eerviees darines the Rebellion.

This briet epitome convers a meare ihea of the hatobiphat prot- which tiomed an all tow predominating part of army lite. during the period corered lig deneral Conkes ate tive sorvice.

When he joined his resiment at Jefteron Barrack- in 1-2:. he aromenced his career in a brisade of three resiments and had the benetit of this manamal experiene tor ten months, when be wa- the tache.. to Fort Snellins. Minn. in charge ot detachment of revints in opren boats.

A gear later he marched with the tim wort the camanan of the santa Fe traders. During this mareh, on Ausust 3, 1sean about Son comanches suddenly charged the camp. Licutenant (onke was ofticer of the raard and met the charge with his suad of thintyexix men and broke its force. while the command was preparing to tight. On August 11 th. the eamp was thanatemed and a party of hunters attacked; licutemant Conke was sent the heir support. While wading the Arkamas river in fromt of his meth. the enemy appeared on the batk and fired: he stooped down and cansed his ment to beat then oft hey tiring orem his head.

He returned to Fort Learenworth the following yatr and remained until $1 \times 32$, when he joined that pate of his resiment engaged in the Black Hawk War. At the battle of Bat Axe. whint the regular brigade was in the dense botom lamb of the Missisoippi he discovered where the coemy was in greatest forcenn an island: he informed the commander and was ordered to kend the reserve of three companies into action. Which he did. He was appointed Adjutant of his regiment at the close of the war by hemeral Atkinson.

He was appointed a First Licutename of the new dragoon regiment while at Jefferson Barracks, and marched during the winter of 1833 to Fort Gibson, Indian Territory, a distance of $50 n$ miles. During the following year he participated in what was known as the -southwestern Expedition."

The following year, 1835, he went on recruiting kervice but apphed to rejoin his troop and marched with it in $18: 36$ to Sacogdoches, Texas. He returned to Fort Gibson the following year and

about twenty．The tribe was so hambled by their pursuit and defeat that they begged for peace

Daring the Sious War of 1sis．he commanded the second Dra－ goons and two companies of mounted artillery and infantry．While detached with his command trom the main hody．hee defeated the Imbians sepmember $3 d$ ．intlicting a lose uph them of nerentr－mine killed at Blwe Water．

Daring the disturbance in Kansa－in 1－sin，the meglar army was interposed as a bufter between the conteshling parties．General Svithe report says：．The tronp in the tield have heen under the
 second Dragoons．The sound judgment he has diphlayed and his pronpthes．energy and sood mathageme have had a latre share in proluctug the happe state of affain at preate existing：for there were moments when the want of either of thene quatities might have led to the mont fatal ame extembed disantere

The Sectetare of War refers to thi nerrice in his annab report for lomian follows：＂Energe tempered with forlearame and time ne．．．directed with more than ordinary jutgment hat enabled them to eheck eivil trife and werore onder and tranquilits．withom shedting one drop of hame $: \quad: \quad: \quad 1$ colucur in the high comb－ mentation which the Commading General of the bepartment of the West hestows on Lieatenant－Colonet Cones．commanding in the fiell．and to the officer－and men who have than matistactorily per－ formed the disarreable duty which was imposed upouthem．
buring september．1－5t．he marched．in command of hiv resi－ ment．on the＂Ctah Expedition．＂and arrised at Fort Bridger on． Nonember 19th．He was detached all wither and spritis with hi－ regiment．gatarding and herding the horese muke and cattle．which numbered bearly 7 ， 10 hen head．These were taken to the distant mountain valleys，white the main body of nearly 3,0 men was entenched at Fort Bridger．

The Mormons baving temporarily abamoned the country（ien－ eral Conke marched hack to Fort bridger and thence with the column through Salt Lake City and to Camp Floyd，which was es－ tablished about forty miles from the town．

General Conke availed himself of a long leave in lusis and risited Earope．During this leave he prepared a system of＂Cas－ alry Tactics＂which was subsequently adopted．He rejoined in the spring of lstin，and soon atter assumed command of the Department of C＇tah，where he remained until the sigus of approaching civil
strife caused an order to be sent for the abandonment of ['tah. when he proceeded to Washington, where he arrived on October 19th.

It was the good fortune of the writer of this too inadequate reFiew of the life and services. of this accomplished othecer to know General Cooke from the last month in the year 18001 until his chath Soon after joining my regiment - the Second Dragoons-in intio at Camp Floyd, I was appointed Adjutant of the resimger, and A. sistant Adjutant-General of the Department, and my selations with General Cooke, then Colonel of the Second Dragoons. commandme the Lepartment of Ctah, were as intimate as was powible betwey; a mature man and a youngster just from West Point.

My appointment to the important offers mentioned was due t. the fact that in consequence of the threatened War of secession many officers were leaving the service, rather than to any peculiar fitness which I could have possessed, buy I have always hat reaton to congratulate myself that my associations were so intimate with this.prince of cavalry soldiers, and I attribute much of the reawnable suceess I had with important cavalry commands to the instrac. tion and example of General Cooke.

In thope days it was an honor felt by all to belong to the seromed Dragbons. The esprit of the regiment was infused by the ofticers intu every trooper from the first sergeant to the boy trumpeter, and to this day when one meets an old soldier of those days he swells with pride as he impresses on the hearer that he belonged to the ․old Second Dragoons."

Mach of this pride in the regiment was due to the subject of this sketch. General Cooke was par axcellence a cavalry officer, drawins his ipspirations from the history of the wars of the Great Fren. erick and the First Napoleon. He insisted on the mounted charige for caralry, was opposed to fighting on foot save in cases of neces sity. His motto being, "Sharp sabers, and sharp spurs," and his orders and example forcing a free, fast and furious charge on the enemy wherever found.

In the early days of the Reballion cieneral Conke. being a Virginian, labored under the suspioion which attached to officers of Southern birth, of Aant of loyalty to the government. This was enhanced by the fiet that he together with several officers of the garrison at Camp Floyd, were mallciously reported by some fanatical persons as having views inimical to the government. This report was secretly made to Washington, and must have resulted disastrously to the officers involved, but from the fact that tho matter becoming known, measures were taken to contradict the report. It
 government and rove to mere of low important conmand durius the ware and that of the three of four statt otherer who made the vicious chatere. not one was hame ot in a porition of impertance durine the war.


 conferlerate fimes.







 formed in the War of the Retrellion.

Mote than onee at this time I talkel with ceneral Cowke on the -ubject of his losalty (1) hiv sensernment, the converation being
 that if he ever faltered $i_{n}$ derntion to the canse of the Cosom his beat friend soould stah him to the heare. If:s parriotiom was imbern and part of his chivalrous natibe.

In thase dat: the meabs of eommanieation were olow compared to the present. The pony expres connecting with the elemraph in the state brought $n=$ the news of the disation at Bull Ran. I rewall low the impatient spirits in the far off cantomment in Ciah dhated at the delay in expected onders. It was teared by all that the wat misht terminate, and we not be there to see service The mise
 harried preparations tor the ahamonment of (amp Floyd and the mareh to the states were accomplished.

This period of my acquatiance with General Cowne is especially interesting to me, for it was on this march from Ctah to Fort Learenworth that I learned much of marchiner troops, which has served me since in the cavaly service. The command marhing in from Etah consisted of four troops of the secmbl Dragoons increased from posis through which we imarched to six trons, a hattery of horse artillery (Gibbos's) and sureral companies of intantry and heary artillery equipped as infantry. The distance was made at the average rate of about twenty-fice miles a day. and while thy
cavalry horses and the artillery depended on grazing for their sub. sistence, they were all brought into Fort Learenworth in better condition for service than when we commenced the march. General Cooke's experience in campaigning on the frontier titted him, ill conjunction with his studies of the cavalry of Europe, as the mont accomplished conductor of a march that the service has ever pro. duced. His interest in the command while marching nerer relaxed for a monent. He observed every trooper, man and animal in the command. His care, with reference to grazing amd watering. waconstaut. It was a fixed rule in bis command that when powille all the horses should be watered at the same time. in oriler "1 accomplish which he would order the command . Front into line. halting in the stream, or into douthe colamn of troops in line, atil require that the leading troops should ride to the farther site of the stream, learing room for the horses in rear, before the heal of a single horse was lowered to drink. His care in these matter is menticned as an object lesson to cavalry officers. So ofticer on trooper was permitted to mount til! ". To horse!" was soundent and woe to the cavalryman who continued mounted when the command was out of the saddle. The modern cavalryman may sheer at hio attention to detaik, but I teel assured that the otticer who keephiin command in good condition by careful attention to what mat he called triffes, is of more service to his country in time of war than are some men who win battlex

For the good of the service, I hope that some capable permon who can do the subject justice, will write the lite of Genemal l'minfl St. Geqrae Cookep once Colonel of the Second Deagoons

Soon after arriving with his command in Wamington, in Noven ber, 1851, Colonel Cooke was appointed a brigadier-general in the regular army by President Lincoly.

He was at once piaced in command of the five regular regiment. of cavalry concentrated in Wasbington, and formed them, together with the Sixth Penngylvania Cavalry, into a brigade (the Regular or Reserse Brigade), which organization was maintained till the end of the war.

During the autumn of $\mathbf{1 8 6 1}$ and the following spring. until the Army of the Potomac moved from its winter quarters, hastemed by the evacuation of the Confederate camps around Bull Rum. General Cooke, with all the officers of his foommand, was busied, without interruption, in brigade maneuvers and drill.

Those who formed a part of thit magnificent body of men will never forget the hours spent day ffer day east of the ('apitol at

Wabhington in brigade drills. Here was sowed the seeds of the future embency not only of thi- cavalry, but the leaven which per. fected the entire cavalry organizations of the superb atrey which for four sears bore the brunt of the great Civil $W$ ar. It is not tow much to say that to dencral Cooke. more than to any ten other men. belonged the cowlit of setting the pace and estahlishing the tandard of the eavaly ghat bater betame the amimann of the country it tot of the whole worth

After the change of the theater ot "perations of the Arme of the Poromac by it transfer to the Peninaba the cavalry under General fomere remathed inactive on tar ar legitimate war extronce wawoncerned. until the evacmation of Yontuwn hy the Confederate

It was during thi- perime as well an betore the danster to the

 homy. He was epectaly deticient in the instinto which chatacter ized the seat army commander oot hitory with reternow the
 a corp of mounted orberlics and mesenger whone horsen perted bo higher purpose than when their riber on rapid trpes tor me. - enger atye or emablet an orderly to keep pace with a fant riding
 ble under him was decimated insteal of beine concentrated. amb
 with a fore of this expensice arm. which hecosarily reduced the araibable fare of cavaly proper and sattered to the tour wimb
 time and the govement mach treange in porfecting tor the Seritimate duties of cavalry
 were diagnted with the comditone that obtaned in the army. Amd it was at has the that the circumstance had their origin that re sulted in the eqatere from the cavary of this mont accomplisherd camalry officer to other tiohbo duty, and the bow the cavalry surice of General Comes.

After the exacuation of Yorktown General Cones, with his at. thmated cavalry command. was ondered in the phrsuit of the ele me. who was brought to hay at Williamshars. The march and parait Were admimbly managed, amd the enems. whose advance had paned giard and to ofter bation forced wrewh in protectull of it rear and his squadrom.

It is no part of the scope of this paper to enter into the detail of the aftair at Williamsburg on the part of the army. It is enough to say that the caralry under General Cooke did all that cavaltro coukd do under the most able management, and that the batte of Williamsburg, so far as the Army of the Potomat was concernent. was not successful.

From this time on affairs with the caralry, thrmagh mo tault it its own, went from bad to worse. Petachments from its strengeth were constantly increased, and it was hampered by instructions which erippled it for all aseful action. A eave to illustrate this oceurred after the Amy of the Potonace appared in tront of Richmond and took position astride the Chickahomily. The caralry under General Coone was on the right flank of the army. watching the roads leading along the Pamunkd to the rear of the army. It had no freedom of action, and was not allowed to select its privition for the better attention to its work.

Soon the Confederate cavalry, umper its capathle chinf. (ioneral Stcart, fell on the emasculated rambs of the thin risht wing of what was left of Cooke's cavalry and made the ratid to the rear if our army, passing to a safe phace of petreat within the (onfederate lines and around the further flank of por intantry. Ceneral Conke immediately made arrangements to phrate and punish the intrepin foe, but was thirarted in his design by positive orders from the ('inn. manding General of the lett wing of the army, under who orders he had been placed, to regulate bis pirsuit by the march of an in. fantry column detached to intercept iftrart, and on no acoont to precede this iufantry march.

The officer of to day, even though be has hat no experiener in war, with the record of caralry marehes before him, can imagine the effect of such an order on a dashing. chivalrons, enthuniasticaralry offifer, chating ynder the restraints that had already becth placed upo him by a soldier who had learned from the books that a forced march for caralry for one day was twenty five miles

The wrifer of this recalls that on the receipt of this order (ieneral Cookefinsisted that he would disobey it, and was only deterred from doing so by the earnest adrice of those arcund him, who thought they knew how suicidal such $a$ course would be under the conditions fhich then obtained in that army. I hare since regretted that I opposed the infraction of orders. But I was very goung then.

Of course there could be only one result to this course. Stcart made his rad , unimportant though it was in consequences, and the entire blame was unworthily thrown on the cavalry and on General
 Whoknew better. hat were wihing to areept at aperat.

It was not long after thic maid lig Statat that the Consinderater. encouraged by the itertheo of the Army of the Potomare umter
 Porter. fighting the bathe kowno an faine Mill. - -
buring the carly part of this hathe the Cointarmy hed it gronal and gatined from time to the some material ancers. But it wat onde temporars. In the aftermon the writer of his. by dion cobl cookes divetion reported at the headquarter of the commanding Ceneral oh the field. Fit\% Jons Portek. and during his at. umbance there heard read a di-path from danemal Me Cabase con-
 drive the rebels off the fied. and wake from them their artillery
 nur tropes to the rear. Hasty preparations were mate tor the retrat of the headquaters and everyhing wan in the mon wrethed confusion. So ordere enuld he ohtained athd 1 retarmed to my chicf repmoting the condition of athars. It was aparent from mosement, in our front that the contederate wound make a anpreme effort to loree the lett hank of Fith. forn portenin command and cutting it off from the bridge orer the Chickahoming. never it frem Mreseldas's army and capture or disperse it.

It we growine late. Both armies were exhased by the exer. timo of the day. But the prize at hand wa well worth the dfort. and the contederate with renewh strengh were fighting twake their victory complete. The [bion cavalry commander seized the sthation at "glance. The gavaly had been posted behind a patean on the left bank of the Chickahominy. with ground to itfront of the castaleles the batterice for cavalry action. Tothe right tioned. Here I adopt the description of the battle from the pen of a brilliant cavalry officer of a new generation. who tells of it in his history of the Fifth Regiment of Casalry. Captain swift. He says.
 formed its most: distinguinhed service. On that day. it will be re membered the Confederate army, reinforced by the corps of Stuse. wall Jack=on from Northern Virginia, made four denperale attacks upon the Federal wing under Fitz Johs Portem. Who was oc. upying an onen platean, with temporary intrenchonents, east of Poyit an open plater procted br the marshes of the ChickaPowhite Creek, his pett protecter flowed through deep banks. hominy botom. The sluggi-h creek howed the plateau was free of obstacles and suitable for cavalry orer a strip varying from

400 to 1,000 yards in width; and in the breaks of the phateau. in rear of the extreme left of our line were massed the weak cavairy brigad $\mathrm{s}_{\mathrm{s}}$ of Philip St. George Cooke. In front of the eavalry the batterifs of the reserve artillery wore stationed.
"It was after 7 o'clock in the evening; the sun had sunk below the horizon, the heavy smoke of battle was hanging thickly over the field, and each attack of the enemy had been made and won. Only the cacalry and a part of the artillery remained on this part, of the field. A brigade of Texans, broken by their long ad rance, under the lead of the hardest fighter in all the southern armies, came running on with wild yells, and they were a humdred yards from the guns. It was then that the cavalry commander ordered Captain Charles J. Whitino, with his regiment. to the charge. No one had blundered; it was the supreme moment for cavalry, the opportunity that comes so seldom on the modern tield of war, the test of discipline, hardihood and nerve. Right well was the task performed. The two hundred and twenty tronpers of the Fifth Caralry struck Longstreat's veterans square in the face Whiting, his horse killed under him, fell stunned at the feet of the Fouth Texas Infantry. Chasblise was torn almost to pieces with six wounds. Sweet was killed. Only one of the other officers wauncrounded. In all, the loss in killed, wounded and missing. was fifteeght, and twenty four horses were known to have been killed Cnsupported, and almost without officers, the troopers were stopped by the woods of the creek bottom, veturned, re-formed and wer. som after opposed to the enemy in covering the retreat of the Fed. eral army. Two days later the same troops were engaged at Samge Station. The guns which were in condition to retire were sared The facts of that charge speak for themselves. No action was erer more worthy a poet's genius: no cavalry charge was ever riddell better or against more hopeless odds of numbers. In other hantevery survioor of Babaklava has been pensioned and decorated. The German nution will always delight over the record of its cat alry at Vionville and Mars la-Tour, and the great Chancellor was never so protif as when he embraced the sons who rode in the rankon that day. The memory of the sacrifice of French cavalry at Sedan is stili a balm for many wounds. But while Carmigas. Bredow and Gallfet, each in his own hand, received every homor. it is strange to relate that Whitina was dismised for alleged dishoy. alty a fer months atter Gaines Mill, reinstated atter the war, and mustered out of serrice at the consolidation in 1ain. The action of the cavalry receised the censure of the Commander-in-Cbief. and has since been given as the reason for the removal of General Cornt. from the command."

The events of that day at Gaines Mill are pictured on the mind of the writer of this imperfect sketeh as on a never tading phot... graph. The details of the battle are as vivid as if they had occurred yesterday. As the Confederates came rushing across the open it froni of the batteries, bent on their capture, one battery nearest to our position was seen to limber np with a view to retreating. I rode
hurriedly by direction of General Conkf. to its Captain, Rublsins. and orlered him to unlimber and to commence tiring at short range. canister. He complied willingly, and sad. as if in extennation of his intended withdrawal. that he had no support. I told him the caraly were there, and would support his and the othor batteries. The rapid fire at short range of the artillery, and the daring charge of the cavalry in the face of an exhansted foe prevented, withont doubt, the enemy seizing the Chickahominy bridse and the eapture ne dispersion of Fit\% Johs Porters commami. All thit was due to the subject of this sketch. No farther adsame was made by the Confederates, and the tired and beaten forces ot Porter withdrew (1) the further side of the Chickatominy and joined the Army of the Potomace in front of Richmond. The cavaloy withiren last as a rear suard, ater having furnished torel and litter hearers to the -urecons of our army. who did what wa- pusible t, eare for our wounded lett on the tiete.

It was a great surprice to denemal (inke athl his triembe to find in the Records of the Rebellion, publinhine the events of the war. a tatement that he was reltered from command in the Army of the Potomate bin his part in the hathe of (athes Mill. It is my belied that this statement was an atterthomshat, as low that (ieneral Cowne was releceal at hiv own writen requent. atter the Army ot the Potomate had arrived at Hamisum, Lambing in Ausont.

 extembed notice to this epinote in his military career than is per


Truly, as (aptan swart intmates. in any of the fontries of Europe (ieneral Cooke: comblat at hation Mill would have bed at


Atter Gaine Mill the cavary of the Arme of the Potomat had no history of which it hat reanon the bend until the reorsanization of the army with Howker in command. It emascuated rank
 until there was mothins united of the unfortunate mounted torce in sutfic:ent strength to constitute a reanomble command for a fold ottiow. This fact, coupterf with the incompetence of his superiorin the hamiling and treatment of the caraby led General conke th repleat that he be relieveltiom duty with the Army of the Potomat

He was asigned bo cont-martial duty in Wahingtom and re mathed unil Augut. letia, and a few weeks thereafter he was


Gulf, and remained upon this duty until assigned an General supur intendent of Recruiting Service for the Army. May $2+$. latit. Me contined upon this duty until 1860, when on April list he wat assignd to command the Department of the Platte.

Frotim April to July, 1sitic. General Cooke wat a member of at examiging board for promotion of volunteer ofticers to the regular army, and a member of a retiring board from September, 1*6i. 10 May, 1 \&69, on the 15 th of which month he was assigned to the commanil of the Department of the Cumberland, where he rematined until thensferred in May. 18 s 10 , to command the Department of the Lakes. 1

Gerderal Cooke continued in this command until October 3 1873, , then he was retired, after forty-six years of active service such as has not fallen, nor under existing conditions, can ever agrain fall to the lot of any other officer.

History was made so rapidly during the eventful years from 1860 to $186 i 5$, that the period immediately followins has received but scant attention from historians as yet. No duty ever performed by arnay officers required clear judgment, high-minded patrintism and pafient forbearance to a greater extent than waw necessary in dealing with the multitude of unprecedented questions arising under the new conditions which prevailed in the south, and unstinted praise is due Generals Thonas. Canby. Cooke ahd many other gellant men who held commande there during the reconstraction petiod.

Thrpughout his varied career General Philip St. Geonge Conke gave udan example of loyalty, professional pride and devotion tw duty in its highest sense. He was the incarnation of a cavalry soldier. His greatest ambition was to excel in this, his favorite arm. On the frontier he gloried in making long and rapid marches without injury to bis borses. During the war he was among those who though that the legitimate spbere of cavalry action was mounted and in the crisis of battle. He was a splendid horseman and alway: look pd fvery inch the soldier while mounted on his spirited, shows horse. He was a chivalrous soldier, a consistent Christian, a model gentleman.

It cannot but be that in future gears when the history of the Unigri caralry is written, that the name of General Philip St. Georae Cooke will stand highet in the role of distinguished caralry gederals. Though others fillowed him who. owing to the fact that the arm was better understood by army commanders, gained more glpry, none were more deserving.

The same may even be said of our oficers within the last decade. Not so to-day. Now we are all readers and students, stodents at ans rate. whether we will or no, for such is the edict of the Lyceum. If we cannot name exactly the thitial hour of our literary fever, we can, nevertheless, trace its deselopment and progress liy the principal events that have marked of influenced them.

The first real interest in professional culture amons officers. as a class, came with the founding of the Military Service Institution in 1878. This was the work of four officers, and the servire owes them a very large debt of gratitude.* These officers stated ith their wald that the "design of the assoriation contemplates protewional im. provement and interchange of views upon military matters. es. pecially those calculated to promote the interests of the army ot the United States." (Manual of the Mil. Sers. Ins.. 1swi.) Right well has the Institution fultilled its mission.

One often hears it remarked that the Journal yf the Millthy Sereir Institution is mainly an artillery organ: get, strange, it seems hat for an artillergman to win the spld medal for the $\cdot$ prize ensay.

The next impulse was given by the fording of the school of Application for Infantry and Cabalry at Fort Iesarenworth: but the impulse was feeble, and its early results were searcely an earneot of its later accomplishment. The pehool struggled alone tor secetal years, gaining little in vigor or fntluence. Few young men somght the detail to it. Those who took the course did so under compul-ion. and manifested their contempt for the sehool by nicknaming it .. The Kindergarten." But the last few years have wrought a srat change The school has begun to tulfill the purpose for which it was createlt by the War Department - a waf college . for ambitious young otit cers who desire to take an advanced course in their protession."

After the college at Fort Learenworth, came the organization of the Cavalry Association. Strange it hat not preceded it - the phace of the cavalry should always be fin front. This marched along for several years, gaining strength the while and with its cavally clatter, finally aroused the infanity. They then formed an association and started a professional on. The artillery in the meantime brought forth its artillery Journopl pure and simple. The rumblins of the three arms wakes up the heulquarters at Washington. which takes command of the whole force, sends forth its Lyceum order. and sets up the Bureau of Milityry Intormation.

[^1]It could tow be expected that congres would wit quictly he: and let all this pase without sayine a word or tating a hamel it was berginnine to look as it the buly military was on the point of forget. ting its -uberviency tocivil allhonty: The free institutions of the Republice were in perit. Congres mat da omethins so it trarated and hrought forth the adrequing examinations for peome. tion- - a boble and hopetal oft-pritis. one that inde-atimed, if propery nurturel, not nured to effeminary, now oreworked that matimely Wath . to leal the arme to a high tate of pactical cutare
 keep alive the apirit of staty in the serviee withont the suppert of











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 perstotice, are not conducive the the of howk- Whether the latter conditions will make better obldien than the KuERDass.
 left fir the next war to decide

But is there not danser of tow much reating and staty in the army? 「ondoubtedy professional edncation is mow our hobly: and anque-sionably the world has ridten to its present state of ald vancement upon bohbies. for the harkhone of a hobly iven. thasiawn. nold nothing has sucteded without enthatasm liet hy obrervation amonir hiv circle of arquantance-examining himett the firat of alf-any one of us can see the evile that Bacris hav pointed out: "To grend too much time in studies is sloth; to we them too much for ornament is affertation: to mako judement wholly he their rutes is the hamor of the edolar. They pertect
nature and are perfected by expericnce * * * (rafty men con. demin studies, simple men admire them, and wine men use them.

The sloth that too much study induces in. apparently. of both mind and body. When too many books and authorities are tu he recollected and pondered over, conclusions ate slow th tiom Thin may be of no cronsequence to the philosopher in his clomet. hut 1. the soldier in the field it is fatal. Cavalrymen, abowe all. have ta time to ponder and weigh. It is better to move to the chatse. evern though the consequences of repulses have not heen carefuily calculated, than to stand poudering until the enemys squatron ato upon you. General Schofield recenty remarked ot some once that " he had too much sense to be a good cavalryman.

The annals of the war between the stater. an has often hera $\begin{aligned} \\ \text { a }\end{aligned}$ marked, do not argue the side of the military student. The freat students on cither side, those who knew Napoleos: maxim. by heart, and could "rewrite Jomini, if the last coper had heen lost. and quoted Marshal Saxe in familiar chat, were not alway the most successful in battle and campaign. Of all the heroe of that war, whether under the stars and stripes, or under the etars ablat bars, General Sueridan was the one whose record as a tighter allud as a leader of men in battle or in the searel of batte. nuot appalto the real caralry soldiers admiration and emulation : and it idoubtful if he had ever read one of Napoleon's maxims, or neth a copy of "Jomini," or heard of Marihal sanes.

The military biographies of Europe peint the same lesoot. The greatest reader in our service today. an ofticer wholiven in baks. rorships books, dreams in books, no doubt, and would hate the walli of hearen lined with books, labored, in a recent mayazine artide, to prove that the worlds great soldiers were hovers of books. But the evidence and argument he adduced tailecl to sustam the ease. Frederick the Great affected literature but not military literature. He was the "Poet King." Colonel Croosos. in his article, admits that "it is not easy to find much of the literary about the two English generals, Weflington and Mariborogoh." The latter could not evenspell. [Golnwin smithe] The interence is he did not read.

1
"Napoleon had a regular damp library and cabinet editions of works in art, and so forth," says Colonel Clossos, hut that he read all these works history deposeth not. I do not believe he did: he had no time to read such quantuties of books. About all that we are told Napoleon ever studied were "Plutarch's Lives" and the "Campaigns of Turenize and Frederick." His latest biographer.
 "ducation." We may be sure that what time Nambens tate of

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 an oftere activity as me other hathit does. It is the worw form of laziness, and wo sin is on deotructive if a colliers efterencyapecially a cavaly soldiers -a- lazinews some of the beat soldier have been drunkards. Marlboroctin was a scoundrel, Skobelef was at moral leper: but they were all active ate every eher soldier has been that has succeeded.

Emerson says: $\quad$ The student is to read hintory actively, and hot
passively." Aye, he is to read anything actirely that he expects io. derife any benefit from. Passive, easy chair reading is but all apology a man makes to his conscience for doing nothing. When a man stands or sits upon his muscles, his mind is more livety than when he lolls in a beap upon bis flesh and bones. The brain works better when the spinal column iq erect. The only reasoning animal is the only animal whose backbone is upright, and man did not bexia to reason until, in the course of his evolution, he rose from all fourand stood on two legs.

The world has not produced a man that has mate more out of a small gift of brain that Stonewall Jackson did. He was naturally dull, slow of perception, slow of invention; but his record at a cadet, as a college professor, as fighter, telle what use be male of his poor natural gifts. All he knew he learned by hard study : and he studied always standing upon his feet. with his book on a shelt in front of bim.

Some men read simply for the purpose of telling what they hare read, This is as despicable as flling one's shelves with handsome bindings, regardless of their opntents, or with blocks of wood painted and gilded to look like pets of staudard works.

Otber men read tokeep from having to think. The mind cannot rest, except when it sleeps, and it cannot sleep all the time. It will keepon thinking, remembering, puilding castles or dungeons, if one sits idle and awake. Other men play solitaire, whittle riticks, or draw figures on bloting pads with a pencil, to occupy their minds.

Still other men there are, and many in the army, who read too much to have any time left to act or to think. As soon as they have donefone book, before it is digefted or considered, they are in another.: They do not know the oxhileration of an original thought. If thes go through the form of thinking, they must do it in quotatation marks. They can only teil you what someboly else has written, as if cou could not read jp for sourself, if you were pleased to
A. thought conceired in a mans own brain, whether it he strong or weak, whether it be whe or foolish, whether it be right or wrong, if it be but his own, is whrth more to him than ten thoughtborrowed from some one else. And yet, us the "autocrat" says. "we get into a way of thinking as if what we call an intellectual man,' was, as a matter of courst, made up of nine-tenths or there. abouts of book-learning and onfe-tenth himself." In wo calling is the tuth of this remark better exemplified than in ours of today. We cull an officer "up in his prpfession," nccording to the number of professional books he has repd. We think he knows all about
taining horses, of he can talk Batcuer and Rarey and Anderoon all about the veteriuary ami sabitary science, if he has Fit\%wrokam in his book shelves : the whole art of horsemanship, if be has read IWrers Seate and Saddles. that which no book was ever tuller of strumg-out and spread.over thenry or emptier of facts and horse -enoe. when put to the test of actual practice. We think an ofticer that ean quote Shaw and draw his diagrams. knows the whole sub. ject of minor tactics: it he han -tudied Vos sichmidt and Tresch. he in a finished cavalryman, anml. if he can talk ". Jomini" and . Hamley." and has kept up with l'rince likafts Letters and Conrer. sutions, which are keeping up with the el brook." he in prepared to command a corps. And all this whether he can ride his own horse over a ditch or a fence or wo. whether he can command his troop or platoon at squadron drill or 10 .

Reading, to be of protit. should have one ot two objects. It - hould be either to get information tor a detinite purpose or to get recreation: and reading that has not one or the other ot theme objects in view is time wasted. Fivery man. even a soldier. is entitled to a certain amount of recreation daily. Alfred the Great took eight hours. but each manis conscience and leisure must be the judge of what be needs. When a man takes more than theg allow him. lue turns recreation into dissipation. This is so whether his dissipation takes the form of hooks or strong drink. By recreation. how. ever. is meant neither rest nor idlemess: for, whether with books or with base balls, it ought to lef active and a soldiers rest ought to be oound sleep.

- There are few truer trimblhs or more delightill mensations that to olbain thorougls command of omes solf." says Sir Johs
 midde of a delightful chapter, and go about these dutien, of which there are humdreds daily, not amounced by call of tmopet, and not under the immediate eve of his superors. hat attention to which marks the distinction between the slothful and the actire officer. has obtained thin command of himself:

There are officer who apyear to think that the chice end of man is to read and study. Instead of treatilig studies merely a a means to the accomplishment of a purpose they make everythine elae bend and yield to them. They do but stwity with the determination ot fithing themselves for some particular inty, either of the present or the finture: not even for knowledge or the jower there is in it. Ther stuly for the simple sake ot sturying. just as the miser hoards for the sake of hoarding.

The mind is so ordered that it cannot fix itself uponan ambition. a hope, a possibility, or eren a certainty, which lie- indetinitely in the future. It is doubtful if there is to lay, in all our millions. a single child or youth who hats set his ambition to whtain the Proudency in his manhood, and googerns his daily life to that embl. It is even doubtful if there is a liedtenant in all our service that hat seriously said to himself, .I Iffll command the army some day. and thrects his studies and biskonduct with a viow to tittits him self for the position.

It is for nearer and lesser gronls we strise. Eath attamment in a stephpon which to rise to a higher ambition. Even the trities it to-day appear harger to our mental vision than great thinso wif in the perspective of the future. The issue of a game at billiarts or whist will oceups, for the half hour. our whole eftiort and at-pimation to the utter exelusion of the colqnelcies, fenemal's atam, and all the. other bonory and glories the fifture may have in wating fin aThe thought of the moment, with it, little pleavare or trouble hat out the contemplation of the entife hereatier.
 the atoility to look right over inthrening momthe and gats and in the efe upon the highest point in the salale of ambition. Arul y.u. this myopia of aspiration has itymumatase. How many erom and. diers would pass into their old age and retirement with the orrow of an ill-spent, or the errevance of atn ill-appreciated life? How many grares would be tilled with the dunt of disappintment if w. all, ip our youth, sighted our mombition at a gencral's epaulettes No, if is the small honors in sight, and lesser laturels in reach. mustricgs after, and not the great ones beyond the horizon

We should make use of thin pritciple to add us in our sthitio. We should always bave some special object to stady for. We know that on officer will learn more infa week when his examination is at band than he will learn in the whole willter's course of the Lyeram. with his promotion only a vague promise of the foture. He will study his text-books harder to find out how to skiffully command a corps of leaden blocks in a gamed of Kricenspiel to morrow, thath to command a corps of bodies and souls in that indefinite future. . the next var." He will sit up later working out how to righty build : road br a bridge next week than be will to learn how to destroy a railway or a ship canal thirty or forty years hence.

Too much reading, even of the right kind and in the right way. beget too much theory, and at the same time makes one depend more apon his book-learning than upon his own resources. In offi-


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 with the tain ot other -ure wrothw














Theer ranter will hay hoh on son-tin whole doen of yonin the Aljutant a sftice in the mornines in the elab in the eventate. and pour out upon son their viab, haty harelo, of wrath asamet these would he army writers They are the same men who rawn of a mornine and tell you how late they at up the night betane readines and repeat to sou colnman and pares.all of which vou have read for gourselt hut you are tom polite to tell them so. Hour and hours of ralable time evergote of us has the veld to - ush beres at some time or other. Like thematism. they are one of the ills of the military service, which one can carape why by aty death.

How different with the man whor put- hia little say in pint He
modestly incites you to read it. If you do not care to bother with him you skip him, or tose the whole inagazine into the fire. that you may run no risk of meeting him again. You are not compelled to gire bim your attention, or else be rude to him, as is the case with the ranter aforesaid. But once a year is your time. not to say your attehtioh giren by compulsion to the officer who commit- hithoughts to writing-that, of course, is when he reads you his Leceum essay.

Huch benefit is to be derived from writing. Bacos said, $\cdot$ Reall. ing maketh a full man. conference a ready man. and writing at exadt man." It also gives one a definite and immediate object to read for. It recalls to his momory the marked passages in his favatite books. It makes hins search records and authorities. He not bnly learns more about the subject he is writing upon than lie would learn in a lifetime of languid reading, but he also learns much about collateral and other subjects in his research. New subjects of iqrestigation and new lines of thought occur to him. which may. serve for discussion in his next tyceum essay:

Fen can talk by the hour without thinkitug: so can parrot-and alsolmonkeys, if Mr. Ganner can be beliered. But neither monkey nor parrot has yet written. goe cannot write without thinking: he hay copy, but that can hadrdy be called writing. which can. nowndays, be done so much better on a machine. On the other hand, it is doubtful if there are many men able to lead a train of thought to a conclusion witheut the aid of the pencil; it is too great a tax upon the memory to keep before the mind all that has gone before. "Mental arithmetic" inonly a question of memory, Johs Adays said he could not think without a pencil: so did ChariesLamb. A good thought is a capricious and subtle thing. It is yours for an instant, but let it escape and it may nerer come back to you again. Better fasten it down with a pencil while you have it, thatn risk catching it with the memont at another time.

And now, finally, what should we, as A merican soldiers and studenta of the trade of arms, redd? By authority of Congressional act, the Requlations provide that the Quartermaster: Department shat "furnish transportation" for "the professional books of all officers of the army * * * which they may certify as belonging to them indisidually and pertsining to their official duties." So doubt this generous and thoughtiul provision has had much to du with the growth of the literary pipit in the service. Oticer: could ill afford the expense of carrying their books with them as often as they might be ordered from ong station to another. But a book. to
 so much what one actually knows as what one knows how and where to look fore. The bent biryer doe not have all the law and the decision- by heart hut he billws what books to find them in: and the engineer doc- mo hurden his memory with tables and logarithms. but gets them out of his manal- when be weeds them.
 hands upen them.

If any book is werth the time it takes to read it it muve hare something in it worth ging hack after at some other time. The
 leaky boat on a sea of wisdom: some of the windom will get in somehow." When I read a book. I want to own it ad have it with me. for I know I shall want to go lack to it, soon or late. to look ul some pasage that has left the outine or shadow of it- subinance in my memory. I do not believe I have ever read a book of which this is not true: and I suppose it in so with every permon. Borrowed booksare but a momentary atiofaction: they are like a diet of weak broth. which tills. but does not stay with you.

But how far are we limited in our ownership of hewks by the words. "Pertaining to their ufficial duties?" 'This is largely a quention of individal conscience. and conscience is a question of education. Sarrowness of concience. Which is bigotry is uswally the result of ignorance ( our ofticial duties are wellogh as bumerous and as varions as the occupations of mankind. In a lecture to the students of Woolwich. Reskis said: "While for others. all knowl. edge is often little more than a means of amumement there is no form of science which a soldier mas not at some time or other find beating on business of life and death. A young mathematician mat be excused for languor in studying curves, to he descrited only. with a pencil: hat not in tracing those which are to be described with a rocket. Your knowledse of a wholewome herb may involue the feeding of an army and adpaintance with an obseure point of geosraplyy the succes- of a campaign.

If this were true to Enali-h military stubent- hor much more oo to American surely the officers of no other army are liable whe callew upon for such rarious dutices athose of ours. If we are hot all . Jacks of all trades." the roster munt alweys be realy to furnioh some Jacks for exely trade and there is bo telling what daty an army officer may be put at lext Oar drill-hooks and manal- of tactios and strategy are nom by any mean- the onty look- we need. Wi must know how to build. Whersey. the barsain and trade. to
teach any subject from grammar in to the semence of war; werlit vate a gitrden or manage an eating house; to telegraph a mowne or ran an engine; to draw up a contract or detend a criminal: w - groom a horse or teach a class in hippologe: to buill a tixet briter or destroy a steel one with gan eotton: and to do tens of thonsami of other things which no man in mey other one protesoion would
 tleman." This phrase is the passingert to our shelves fire any bunk we would have there. which cannot get in under specitic clas-

There may have been a time, batk in the dark are of ignorathee when a gentleman was simply a gratle man. Not so mow, all momal argument to the contrary. The conpound word has an inseparable.
tair of culture about it. It is the arndy officers title to the fellow-hip of the educated classes, the college professors, writers, cleregthen. lawyers, surgeons, and the like. But what lawger or chreryman contines his reading and stulies to his law or theology? Sir thms Lebbock says: "Concentrating our attention too much on whe. ir two subjects defeats our own object, and produces a fectilis of dia taste where we wish to create interest." Every protiowional man knows this, and as far an his time allows, gives his realing a will range, and each one, as well an bof can. follows Lom Broctaram:s advice: "To read everything of something amb something of every. thing." ;
 THEIR APPLICATHN TO METHODS OF SIPPINAN:

 CAVATMY


II

 Which the regular army i- prosided with men. with laroce with ail the - upplien needtal tor the perturnathe of military dution. with means of traneportation. and with monse.
 admintration their bearing on on aphlation th the methoth of
 ane. For the principhe chunciated we will marh in the writhas

 tant- drawn toon the reonded expremene of athers. some within

 a- we have arrived at after orme -taly, ohervation and reflection Without pratical sugerotions. We may say that a mere eriticiom of existing methods would have lithe value. It is easy to find fablt. but diffient to provile alequate remedies some there are whe delight in tearing down. hut who canmot build on the ruits.

We propose to adrocate a setem of regimental administmion, by which some of the details of administrative work now centralized in a staff department can be performed under the control of regimental commanders. For the efticient performance of such work of detail. and for the result- obtained, these commanders would be accountable to higher authority.
, The recruiting of whtiers for the cavalry, and the pormeng and
wal tar which wond enst hat a tew doblar. was meeded fire a pur pose. provision to meet whied was lat down in the preveribed - pales for stable management." publi-helby atherity of the serer fary of War. To prevent and sop coval, fence, mangers and pickethate requition was made by a
 (1) the foffie of the guartermaster Gemeral Bath. throush the


 the Chiet guartermanter of the Departmeet that his reppest for

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 reweivel practual traning in the daties ot the satf department athe were often selected tor staff latien on -aply at department

 Sowadays at mang of mar hare modern poris. even the reximethal



 tive responsibilitiey in time of peace make them weak. vacillating, unequal to emergeneies in time ot war. when such duties must be thrast upon them? Will there new methods develop evfreliant.


Ofticers present at this reatione are well aware that acting patartermasters of one company posts were formerly wot ataid to incore considerable indebtelness. in the manner eustomary among busimes men. and with all absence of complicated formatites. in the full contidence that a certiticate of the leversity abd the approval of their immediate commander, womble se them through. In this trum today?

We are hedred in at every tarn by contater requrement: even
awards to bidders cannot be made without correspondence wit! Washington; an endless round of reports and paper work keepan oficer worrying at his desk when be should be out doors and about supervising repairs and improvements, or should hare time to atténd to the needs of his department. Is it imagined that by the invention of all these checks and balances, these vouchers and sub-vouchers, thene is any real check on honesty? Men who would steal are likely to observe all formalities necessary to cover up the wrong -doing.

In this matter of procuring horses for the cavalry. what hat been accomplished by the introdaction of new methods, new restric. tions, new laws, the adoption of the contract system. the inspection by eifilians hired by the Quanermaster's Department. the dinpensing with the services of cavalry officers, and the absoption of the entire management, down to minutest details, in the quartermaster's Department, independent of the control of any commander of troops? Let us trace the prontress of these changes.

When the First Regiment of cat valry was scattered ove? of our northwestern States and Tervitories, one troop was unally: the allotment of cavalry at each ptation. When horsen were neented. application for funds was made to department headquarters, and the necessary amount was promptly phaced to the credit of the bocal port quartermaster. The latter distributed handbills and posters throughout the district and among sugh persons anywhere as might he likely to offer horses. Anybody could bring in a horse on any day. have bim examined by the troepp officers present and if found satiofuctort, the deal was consummatei, the seller receired his check athl went his way rejoicing. Tsually each horse was riden by one or more of the officers. Often a horse was kept a few days under oh. servation before a decision was arrived at. The department commander, having in view the fretailing prices of the locality, pre scribed the arerage price.

The prices paid were the lomest obtainable. Middlemen or contractgre did not get the large profte which they do under the prencut systeq. The owner of a salable horse did not have to go to the contractor in order to get the hofses presented for examination.

We got the pick of all the saddle horses of that section, and our regiment was better mounted in those days than it has ever been since. Erers captain was sat fied with his horses, they being largely of his own selection. Lieutenants were taught the pointof a borse, and learned how to inspect and to know a good horse when they saw one.

Who morefy do well by the tremp than ite own atticers? And dy whom cobl censure if merited be more promply visited. or how dould mentribility be more surely placed?

Alones in the early sils it was the practice in some military departments to appoint a batd of otticers fom the regiment requiring horses. These ofticers were sent into localities where suitable horses were obtainable and they inspected and bousht the horses. These pardases were made in open market at best obtainable rates, subject fo the restrictoon that a certain average price -hould not be exceeded; in other words. they could pay what each horse was worth, and were given a certan amomot of money to buy. the authorized number of horses.

These were good business methods and gave grood results, and were satisfactory to the cavalry, but it seems that these methods were objected to by the Quartermasters Department. Practically the business of supplying horses for the cavalry was takell but of the hands of the staff department, and we find that department taking steps to have the law changed about 1886 so as to direct that all horses be purchased by contract, after competition duly invited by the (quartermasters I ejartment, and an inspection by that department. This was the severest blow from which our caralry service has suffered. Thus was the business taken out of the hands of those fitted by profesional knowledge and life-long experience to manage it, and given exclusirely into the hands of a burcau, the members of which are permanently separated from the cavalry service, and as a result are not likely to understand or care much about its needs, and who are responsible to no cavalry commander, nor in fact to any commander of troops.

As a result of this contract system we have seen. in 1 nise. stockmen of small holdings at the mercy of the apeculator who had secured a large horse contract. They had good horses, and were auxious to arail themselves of the government market, but could not offer their horses direct to the representatives of the caralry who had come into their neighborhood with the contractor.

Assuming that the latter was receiving from the government about 8120.00 per horse, these officers wore neverthelass powerless to get horses worth that sum. They had to take a lower grade of horses, for which the contractor paid about 880.00 each. These horses, perbaps, technically filled the bare requirements of the contract; but under the system of purchase in open market, we could hare secured a far better lot of horses, paying the owner, not the speculator, say $\$ 120.00$ for a horse worth that sum.

The government, in manginftances, was thus put to a direct lows of abont 840.00 per horse. The e horses were bought under orders from department headquarters, and insperted by a field otficer of the regiment, assisted by the regimpntal quartermaster and the veterinary surgeon. Thus the regiphent was at least represented by agents who were identified with)jits interests. But the resistance of these officers to the contractors persistent efforts to put in inferior horses, kept them many weeks array from their station.

More recenty, the plan has come into vogue of having our remounti horses bought in a large Eastern city, by a depot quartermaster, acting under' orders from the Quartermaster General's office. without, it would appear, any adyice or meddling from regimental officers, and outside of the control of any military commander. The records of these horses shoff, not only the purchase, but the inspection, made By:one officer of the Quartermaster's Department. Presumably this officerer was "assloted" in the inspection by a civilian "expert," so called. Here we hre a system which operaten to deprive caralry officers of any vofce in a vital matter, upou which depends the efficiency and useffalness of their arm of the survice. carried to its logical and extrent conclusion.

As has been said by a caralry officer with a war record: ."This is a reversion to the methods of the first days of the Rebellion. which filled the government corrals with thousamds of wombless animals, and which resulted finally in the establisinment of the Cavainy Bureau, by which means the inspection of the horses was placed in the hands of cavalry officers. The improvement in the character of the remounte which immediately followed is a noteworthy fact in the history of the Civil War. The feeling that cavalry officers are unduly particular in making inspection, and that caralry bourds are obstractive to the rapid transaction of busineiss, has frequently found expression in the utterances of officers of the Quartermaster's Deparment, and it is believed that their preference for inspection by their own methods is largely based upon the apparent diminution of labor and trouble in procuring horses. There is but slight doubt that as long as this system of
$\rho$ purchase is retained, business can be conducted more smoothly, and with less trouble to the Quartermaster's Department. through the means of a citizen inspector than by a board of cavalry ofticers." [HARris.]

This law (of 1886-7) has bedn in operation long enough to have afforded us a fair test of its pradical workings. It is believed cavalry officers are practically unanimous in denouncing it. That law
has fostered a syotem of supply which does not supply Here we have a troop of cavalry (enlisted stength, fitte-nine) with hut thity eight serviceable borses. The number ot really good sadde horses can be counted on olles tingers. A scout of twenty days showed the majority not fitted for serions work; a dozen were lett by the wayside. Others made their riders life a burden. The pride of a cacalryman is taken out of him when compelled to ride these plages. The recruit bosen beart for soldering when the finds what sort of a charger has heen assigned him. The tates the defects of these horses are varied but numerous and need not be deseribed here. They are found semerally among hored procured by such methods, and other writern have done tull juntice th the subivet.

It may be said that $\cdot$ it is the duty of the inalectors to present thin ber refuning to accept homen of interior quality: Let un ex amine the spectitations, e. y.. " Horses to be suitable in every reppet tio the cavalry servee. This is a glitterime generality mot in any proper sense a opectication. Only a pertect home would be ${ }^{\text {andait }}$ able in every revect," and we cannot set perfect hores. The ex. prossion might be held to amprise well tatined homes: but farmers and stockmen do tot raise cither recruits or horses with a military traning. an a rule. This requirement camot be enforced. and should have min pace in the pectications . By demanding too tund it deters from bidding men who are not familiar with government methots. The experienced government contractor knows that such a requirement is impracticable and he pays no attention to it. He knows that the inspector must relax. that it is absurd to demathed perfection in a horse. It would veem. ly the way that the propered change in the specification so as to real. " Without blemish or defect," is open to a like objection. Any specifecation that cannot be rigidy insisted upon, opens wide the door for laxity of inspection

Moreover an inspector who makes himself disagreeable. or who for instance, rejects nine out of every ten horses presentexd. is liable to tind himself suddenly relieved. The contractor will complain that he caunot furnish such extraordinary horses. The Quartermaster: Department will tire of the dehay and complaining-

Before proceeding to the third atage of this discussion, which has in riew the suggestion of the establishment of a regimental depot for the procuring and training of horses and recruits, the writer deems it advisable to tortify the position he holds. to intrench the ground on which he stands. Lest it might seem presumptuons and illadvised for one of the writer's rank to recommend what may seem
radical changes in administratire methods, we will endeavor to show by quotalions from the writings of high authorities, and from the opintions of officers of high standing and ability, that the principles which we apply to this problem are not new, but have been drawn from recognized, standard sources of information: that the effectry of the present system of supplying horses has been questioned by one of the chief advisers of the Secretary of War; and that changes in the direction we propose hare been rigorously urged ever since the adoption of that law of 1886 .

We quote now from Buxton's text-book on "Military Administration]": "The more administration is made a regimental concern, the better. Once make it the business of regimental,officers to attend to these things, and you will see the activity with which they will work for the good of their own regiment, and for that of the service itself. What is needed is a system under which officers may frow in knowledge and self-reliance, instead of one so witheringly chilly as to nip their zeal and narrow their views. And we may be allowed to believe that with regimental officers thus educated in regimental administration, we could always find a certain stock fitted to carry out larger administrative dutics. $* \quad * \quad * \quad$ The army must be in 4 poor plight indeed whicb gould not supply the necessary adminfistrative officers for field service when a campaign was imminent. * * * We contend that it is a dangerous thing to create monopolies of certain kinds of military knowledge. by trusting the practice of such knowledge to specialists."

All officers who may rise to important commands should have practical experience in staff duties. But if the present much vaunted processes of consolidation go on, and the tendency to centralize all adninistration continues, and only the members of non-combatant corps become experienced in matters of supply in time of peace, bow can officers of the line acquire administrative experience without leafing their regiment and going into a staff corps?

We quote again from Buxton: "The announcement that a good offleer has resigned bis combatant commission must be as painful to him as it is saddening to otbers. It is the death-knell to legitimate ambition of the best kind. As a substitute for bopes now flown forever, his mind must, almost necessarily, betake itself to magnifyipg the importance of the special duties to which be finds himself relegated, and thus closed departments bare a tendency to selfasedertion and to indifference towards one another, whereas the good of the army can only be secured by a thoroughly harmonious
working of all its parts. The more administration ean be made a regimental business, the stronger will be the organization.

Licutenant-Colonel J. G. C. Lee. of the Quartermasters Department. in an article published in a service journal a year ugo. has ably and it seems to us. conclusively shown the necessity tor reforms in the administration of that department in the direction of decoutrabization. I have already cited some of his statemedo. I cambiot "mat his remark that "ang - stem must be impertect which all agree must be largely abandoned with the niting of the tirst bostile gun.

The In-pecter General: Inepartment. from the nature of the duties of it- ofticers. must come into poseresion of accurate intormat tion as to the comdition and need of the service. We find the fols. lowing in the last annual report: " The system under which horses are supplied has received a fair trial, amd ha- been move than one questioned, it not condemned. Various sugerestiont have bern made, but the only practical syem. it is believed, is to establiah remount depots. whether regimentally. like the recraiting system. or otherwise. The horse should be well bred, and misht be two ar three gears of are when eent to depert where they should be as care fally instructed as our recruits are.

Major W. P. Hall. now of the Adjutatheremeral - lepartment, and on duty in Washington, has writen the tollowing: . We nurt have the proper material to begin with. This is not furniwhed, and the fatalt is with the head of the bureat making the purelate which lets the contract tor furnishing easalry homes to the lowest bidder This results in our mounts being -upplied from a chas of horses known in the market as "plurs." Occasionally a good sabldie animal will be obtained, and as a rule each tropp of cavatry has two or three athd sometimes four of ne de deont saddle horses. The average "phags" now purchased for the cavalry last firmothree to four years, and rarely becomes fit to ride. The very tew good saddle horses which drift into the service last ten or fitteen gears. and are then sold with many regrets. $* * *$ When it is considered that this matter has been represented time and arain during the last quarter of a century hy officer who have made a life study of our casalry service it would certainly seem a matter of surprise that a sensible method has bot been adopted in so important á matter as furnishines remounts for our cavalry. This trouble is not, as we have betore stated in the assistant-quartermasters or the cavalry officers making the purchase but is in the head of our bureau system of supplies. These heads are, as a rule, appointed from officers who have been the longest absent from any
contact or touch with the line, ind as a result know and care leat about its requirements, and thes are responsible to no one takins ank interest in cavalry horses. We believe a former Quartermaster. General is responsible for the present system of buying cavaly. horses by contract to the lowest|bidder."

In the English service the purchase of remount horses is purformed regimentally ; and the Byitish cavalry is splendidly mountel.

In the French army the remfunt regulations are framed with a riew of obtaining a thorongh exploration of the horse breeding di-. tricts by the board of officers which buy in each district, and the importance of buying at first hand from breeders or owners is particalarly dwelt upon, with the ndeessity of avoiding all transactions with dealers or middle men.

Major Harris, retired (formerly captain First Cavalry) in 1.an pointed out what he termed "some of the defects ot the present deplorable system," and offered the following suggestions: "First. the abolishment of the contract abstem of purchase, with its inspece tions by eitizens; and second, the establiathment of an incariable system of purchase in open mapket by bourds of cavalry officers. The amount appropriated by Copgress for cavalry remounts should be apportioned by the General of the Army among the several resiments according to the needs of the service. The disbursements of the several sums should be made by the regimental quartermasters, under the direction of the colonels of regiments, who should desisnate the officers for the Board of Inspectors, which should be a permanent body in each regiment, composed of the reterinary surgeon and a suitable number of officers. The horses should, as far as practicable, be bought at the headquarters or principal station of the regiment, or as close as possible thereto. * * * The rivalry between the regiments would cause the commanding officer to exercise close superrision to see that the amount allotted to his regiment was expended to the best advankige, to the end that his regiment should not suffer in comparison |rith others as to the character of its mounts."

To the foregoing suggestions of Major llarris I heg to affer the following remarks and amendme ts:

First. The system would nbt be found applicable, in some. respects, to acondition of war.

Second. From the annual appropriation a reserve should be set aside and held until toward the end of the fiscal year. to provide for pmergencies.

Third. The regimental headquarters is often moved about, and
is not always in an acessible station to which brealer coukd brint their animals for sale.

Fourth. There are manifest adsantages in having a fixed. bot movable, phace of purchase, in a locality where suitable horses are raised in sufficient numbers sach permanence of place of purchate will develop and encourage reliability of source of supply.

Fizth. It is now practicable to have for the resmental depot tor recuits and horses a permanemt lecation in a district where the men and anmals are readily obtainable, and where they can pa-e through a period of prohation and training before being sent forward to the regiment, whether the latter be in campaign of at test

The regimental system of recruiting has heell ouccenfully witah. lished for the First (avary and in managed under the direction of the colonel. It has been pointed out that this method of retruiting. as at present conductel. is open th the serions oljection that it would not do. in time of war or active campaign, to forward w the regiment in the fied these raw recruit, without previons training or equipment. To remedy this. there should te extablished in the center of the regimental redruiting district, in other words at I Moines. Iowa not merely a recruiting office but a regimental depot where the mon can receise cothinge equipment and tainins:

There should be constructed a station for a cavalry muadron. in he known as the "Depot Squadron of the First cavalry." with model stables. riding hall and symmation and all of the buildinges and improvements now consitered esential fir a post of mot hes. than two tronpo of cavalry

The combination of the remputing station with a remount depot is cave and natural and the adramtage are ohvions. The writer konws that suitable material is there obtainable from which to train our chargers and tromers. Our hatemiths. farriers, sadlers and horse-beakers can be taugthere if mot chatane ready mate.

In time of emergence, when it may be desired to bring our squadron- uf war otrength, we bould have a reserse to draw upon. Men who have received a cavalry trainine sbould be im. mediately avalable. The abence of such a reserve hav been one of our weak points fonder our regimental sestem thene reerve med will be found in our resimental remitins district. where there will be residing many men engaged in civil purnuts. whon will have served three rears in the First favalry.

Suppose that, in note of those sarrifice prety certain to be de. manded of cavalry in our nest great war, a squadron in wiped out of existence in an hour: or that our reximent meets with the ondlen
loss by death, capture and casualies of several humdred men. Our reginental depot will be equal to the task of filling the depleter ranks; and it will be done promptly and in a satisfactory manner. It will not be necessary to hastily recruit amoner the slums of a great city and forward such raw, undesirable material direct to the regiment as has, been done atter some of the disastrous affairs that have occurred in our past bistery. In the outburst of patriotism which such an occasion evokes, these reserve men would even bring with them to the depot their own mounts, if need be

Our regimental depot will interpose at once a buffer and a satityvalod between the squadrons at the front (or on the frontier) and the influx of green material (men and horses) from our district of supply:

For the scattered companies at our frontier stations. it in anmos. ing and unsatisfactory to have one or two recruts come stragestines along in the course of each month of the year, absolutely ignorant of angthing military, and without any idea qf military training. In time of active campaign it would tot do at all. It is well-nigh impracticable to give good military instruction to a squad that dues not comprise a set of fours.

For should new horses be shipped orer a thousand miles, as they are now, before they have been subjected to the tent of a few monthe use and observation at depot of purchase. It would be better if they could be bought at the age of about three years, and given a military training at depot, instead of buying them atter they have been siven an unmilitary truining.

There should be, both for horges and recruits, a weeding out or sifting process before they are sent to the front. The most …nscientious and painstaking recruiting officer will occasionally make a seribus mistake, or be deceived, apd horses that pass the most rigid inspection at time of purcbase may turn out to be unsatisfactory fir cavalif purposes.

Defects and unsuitability, and inability to stand military training, or a failure to dovelop any capacity for improvement in the direc. tion of military usefulness would be discovered during the period of probation and discipline at the depot. The course of training would be uniform for the regiment instead of different for each company. and it could be given under more favorable conditions.

The strength of this depot squadron (the number of soldiers and horses kept at this station) would be variable. The aggregate numerical strength of the regiment being fixed by the War Depart.
ment and the existing law requitine that the number of borse thall not exceed the number of enlited men, this depot squadron furnishes the safety valse for a Hexible regimental administraton

The catre or framework, the officers and non-womissioned ofticers. would have to be selected with reterethee to special fitness for the work of the depot. The detail or the depot and of its management can be worked out be those mout concerned, atter it wall be authorized. The necessaly legination will not it is believed. be difficult tu obtain.

## CONVERSATIONS OX CAVALRY; BY PRINCE KRAFT 7U HOHENLOHE-INGELFINGEN

## TRANSLATED FROM THE GERVAS 

twelfth conversation, (april 4, 18s6) - of the training of the reckitits
H. Anter what you have told me of your principles of remount training I can well imagine bow you want the training of recruithandled. I think it is your wish to have every recruit make a certain progress in riding before you combine them in squads
S. If that were possible, I should consider it the best way, for the riding instructors, eren troop commanders themselves, sin much by slighting the fundamental principles of riding. particularly the acquirement of a good seat during the period of recruit trainins. and by not making the young riders firm in the seat from the beginining. The rider with a loose seat seeks support in the bridle during rapid motion, and thas injures the horse's mouth. He not only fails to retain control of the horse, but diminishes the amount of food taken by it, since, with the pain in its mouth, it cannot chew hard fodder. You may observe that during the mancuvers
H. In war, when horses cannot be spared. it must end in their death.
S. Then so many sabers are absent from before the enemy. Fredeqick the Great aaid: "Soignez les detalls, ils sont le premier pas pour la victoire.'
H. The truth of these words of the King was no doubt con. firmed by his experience in the Sesen Years War. IIs caralry onsurpassed to this day, and trained in detail by peace exercises. performed magnificent deeds in the first campaign. These deed. however, diminished in number as the war continued, though the tried leaders remained. The reason was that men and horses so thoroughly trained in detail, perished.
S. And the war left no time for similar detailed training of the
rerruits. One of the King first ares after the termanation of the War was to resume the tranine of the cavalry in hetall. He save





 muntent lordre." You we the dreat king eoughtaguaranter for the - unces of the cavary bot moly in form leating in battle, hut alor in detaled instruction
H. If I underatand you right. You would like to see Edela. mems method of heginning the recruit taining introlaced in our service wach recruit being veparately taken on the longe and contirmed in his seat at all gaits with hath erosed behind the back. hetore putting a rein in his hands
$\therefore$ It certainly would be the hent way if. a- I aid woce before. we had a sufficient number of instrutors and more fartioularly. men whon know how to handle longe and whip
H. We have to train each gear twentyeght to thitty-four recruite per squadron. if you will permit me io hase no calculation "n the figure we agred un the last time namely thre tour-yar colanteers and trenty five three year men, or olle four year colanteen and thirty-three the year men.
$\therefore$ Allow. in addition. one one gear voluatere alon some lion trom the number of private through promotion of timer-year volunteers in noncemmiswioned others. through disability. ette Thi low must be made good hy additional recruits to kepp up the full complement. The equadron thas may rasily have thirtyon or forty per ruits.
H. To take five recruit- per day in riding one attor the other is almat as much ar one instructor can do
$\therefore$ Let him take nine men, three squats of three men earh. whon alternate on the horse during the same hour at the heginning of
 there or four hours fer day which in emtirely pacticable. We nand (.) Deed four or five recruit instructors suppoe we hal them in the atuadron. each instructor would still need two awistant- firt fonse and whip, and mach ofuadron would need eight or ten men whonderstand riding: that namber canom be -pared every day tor thee or four hare hecalle the breaking of remomat and training of the squadrom have to wo at at ame time
H. Edelshein, I understand, has three recruits instructed at the same time. One rides, the other two hande longe and whip under - the instractor's orders.
S. The only weak point in this system of instruction is, that such expedients have to be resorted to. Longe and whip are ditticult to manage properly; such men alone as understand riding can do it. In the hands of recruits they may do much evil to man and borse.
H. How would you go to work to impart to the recruit a correct seat and to confirm it, before edtrusting him with the reins?
S. In view of the great number of recruits which foin the squadron at the same time, we are unable to make the rate of prosress of the training dependent on the capacity of the individuad as we do with remounts; all the lees asithe recruits must all. by sprins. be "done" to such an extent that they may be placed in ranks as combatants.
H. Here we are bound as to time. Nothing remains therefire but to earry on the instruction in riding at the beginning "en blue." Attention should at this time chiefly be paid to the seat. The rilling instructions contain detailed regulations on pages $3+$ tw 37 how to do it.
S. These excellent instructions are, in most cases, not properly observed. It is expressly stated, that at first attention shoulil be given to the seat alone, that distances need not be observed. that horses will, from habit, go one bebind the other and need not be led. I ask you, in how many squadrons is this strictly observed? Is everywhere as much stress haid on monnted symmastics as required by the instractions? Are thisse gymuatice used everywhere to confirm the seat at a halt, walk and trot, betore the management of the reins is taught?
H. There is altogether too little attention paid to gymmatics in the cavalry. Eren dismounted, they are, in most cases. fialuht merely because they are prescribed, and not as a means of training in order to give the recruit control over his limbs, and impart to him a decent military step.
S. Mounted, they are of equal value for the correct. firm seat. and afterward for the use of thigh and rein without affecting the seat. The time thus exclusively devoted to the exercises on pages 34 to 37 of the riding instructions is, as a rule, shortened too much. You may obserse that the recruits are mostly, if not on the first day, them during the first few days, instructed in the management
 yet wholly incapable of doins: any of these thinge
H. How would youlike to have the recruits. as get numatruted in sruding. do the gymmastios monnted at a trot?
$\therefore$ I put an old rider in the lead let the recruite trot aloner he hion it the moderate gait and manoer preacrihed on pare 34, the reins kmoted together. allow an oceasional hohl on the mane an atainstalling off. and make it -hort. I tell you it gress and it grea very soon. too.
H. The recruits hould then ride the alke-t hored. whith wey -vely command, by themaelver.
$\therefore$ That would not be the most correct principle. The recruits -hould have the best horses in the squalron. I Inder ${ }^{-}$hest horses I understand a combination of lively sat and pertect and contirmed traming. In thi- particalar many Squalrons make mistakes. Vou may tind that the twelve best tratued horses under the hest riders ot the preceding recruit contincont are combiberl into a kind of moded class in hall riding. for the sole purpose of being able to ex. hibit with one equal wat little tricks at the tinal inspection in the sping. For warlike etticiency ut the whole - guadron it is of wo rame whatsocred. It simply deprives the recruits of the twelve hest horses durier their firt traninge. Ju-t an the bet riders shoubl be put on the youngest remounts. in order that the tirst beginning of the training of the horse may lay a correct foundation so the ree cruits should he put on the hest horses. I repeat: As the rider trains the horse, so the horse will train the rider." ()n an ohd titt phate the berinner cannot experience the correct rider teelins. Though naturally gifted for riding. he will get a wrong conception of the enrect rider teeling it monnted on a stiff and toryid horse. and the gitt is killed in the germ. The proper selection of a monnt tor the recruit is of the most potent influence on the entire traninit of the squadron, and especially on the smarthesy of the young rider.
H. Do you not fear that these lively horses with fresh gaits will soon recognize the incipient horsemen by their deficiencies, thecome frinky throw the riders and make them diffident. a thing against which the riding instructions caution so carefully?
$\therefore$ I mean to gire to the recruits horses with lively gats, not frisky and ill-behared horses. It may be that the animals notice during the first few days how little control the ridera hare over them. There is nothing to prevent the troop commander from having such horses exercised by an old noldier for half an hour preceding the riding lesson. Bally broken horses should not he given
to the pecruits. If they are hard-mouthed and go on the foreband as we so frequently see, it renders the training of the youns men uncommonly difficult, more particularly so because the hard mouth causes the reins to be held tight and the youngr rider is misled from the beginning to hold on by the reins. On such animals he cannot learn how to let himself go; on the contrary, he will stiften hime.lt and use torce with the reins, which is one of the greatent faults in riding. The correct seat is the first consideration: it is the touch. stone of all riding.
H. The first part of the riding instructions says the satme thing; in fact, begins with it.
S. Certainly; get its observance is not sufficienty gemeral. A most excellent treatise on riding in the artillery by Hube har recently appeared ("The Cniform Training of Fiell Arillew in Riding fand Driving." Berlin. 18s. . Vosi). The author very correctly states that a correct seat is the first requirement.
H. He points out that in all lessons the instruction begium with a description of the aids by rein followed by those of thigh, and that that fact misleads most riding instructors to consider the ads he. rein as the first requisite. If the pupil is constantly talked to abm, it reins in the first place, he will ase them chiefly and tret the howe.
S. That is because most riding instructors ratte oft their in. structions during the lesson without thinking. stick to the leti, instead of grasping the meaning. The ridng instructions den ribe all the aids, but do not give the order in which they shoulit lice taught.
H. Where the riding instructions speak of the order. they invariably begin with the seat. Thus in the section on the tirnt ridine of the recruit.
s. That section, as I have stated before, is rarely accorded the requisite attention. The seat is the tirst requisite. Riding meanmasteridg the horse on which you sit. Whoerer wishes to play the master thould not be insecure in his own position. For this reason a corredt seat should be imparted to the rider before he is tausht anything else. When the rider once sits firmly in his saddle, when he feels at home on horseback, it will not be difficult tor him to carry out everything else that is to be imparted to him by sub. sequent instruction. Without confirmed and steady seat. a calm and intelligent handling of the reins, intelligible to the horse. in as inconceivable as is the control of the horse iater on at drill, or the efficient use of arms. Nor can a rider, who did not acquire a correct seat as a recruit, ever break borses properly, since a proper action
of the rider upon the horse a mathal umberstambing. is out of the quention.
II. That is pertectly paia. It the rider slide- about on horne hacts, and in order to beep his eath give the anmal every few moments an unintentional rhack in the mouth with the one or the other rein, the poor beast cannot kows which ot the reins are meant as such and which are not.
$\therefore$ Very true : the sratest mistake one ean make in to comdone the soldier it he seeks tor supphet to his erat in the reins. d tre quent. One of the most frequent arrors. in we the stirrup to the recruts too montand before they have acquitedt the firmers of seat.
 atm bower thigh, tur the purpone of giving atid accomding to their own will and never insoluntarily for the furpose of kepping their seat. The recruit should bot be siven the stireup antil be has witemed sufticiently in the woth. atod learned to tarn the thigh.
 may lie ats fat as passihle againet the horse. Here also there in, an a rule. mo distinction male between individuals, and all recruit receise the stirrup on the same day. That is irmanomat. tor it in fain that not all recruits can have the same eonturmation, and that -ome require more time to acquire the seat that others Fantis of -at which creep in at the herinuilis and become contirmed, ate very difficult to eradicate. It the recrait does mo! become sutficiently whineme in the croteh he tanmot eneomfare the home froperiy, amd will never learn how to let himselt gre he cammon sit eceurely without hathing on, unless he encompastes the hores. and mu-t therefore quetze with upper and lower thigh, and serk for suppore in the reins. The meadiness the repore ot seat rewt on eneireling the horse with the upler thighe and it the rider will let himselt aro the horse will. It the rider stiffens himself. the hores will.
H. If the recrait is not sutficiently widened in the croteh. The bones of his seat will not be phated in the midulle-he will throst them out backward. The support of the upper body in rertical position on the three points. the crotch and the two bones of the seat, is rendered illusory and a tree and disengaged seat imponsible. For thef reason the riditg instruction- enjoin that care be takell at the beginning that the rider fpread his lese as far as powible in the crotch and let them hang naturally. It is also recommended that at a halt he place his hands on the withers. spreal the lees at the bip jownt. pu-h his seat torwari, and then -it down.
\$. This elementary procedure is hardly in any squadruu sutif. ciently practiced, for as previously stated, without sufficient width in the crotch, and gripping rendered possible thereby, the man in compelled to hang on, to stiffen himself in order to retain his po-ition. He will then try to accomplish by squeezing what ought to be accomplished by the balance, as it is called. He seeks to gain by sheer force what ought to be merely the result of the seat. It he is given the stirrup before he bas eradicated this fault, into owich every rider is misled by the fear of falling, he will ever thereatiter thrust himself out behind, and stiffen the legs forward, more particularly in rapid paces, and seek more and more for support in the reins; he is systematically made to hang on by the reins.
H. In that case he is sure to constantly fret the horse by falme aidsof rein, when no aids are called for at all, and make the beat horse refractory.
S. I recently saw an instance of that as drastic as it was comical: A regimental commander bad the recruits ride before him. and ione of them was to jump a ditch. He sat poorly, fretted the horse with the reins so that it daturally refused the ditch. The regipental commander commanded "Halt!" "Reins Lonse!" "Hip" Steady!" This done, he thunderdd "Forward!" and at once. without reins, the borse. with its rider, flew over the ditch willingly enouigh.
H. You can see many such pictures of recruits uneasily sticking at an obstacle and rainly jerking the reins.
$S$ The reason is that this thabit, when once confirmed, catl bardty ever be eradicated. Such recruit will never, in all his life. become an efficient rider. For bo se breaking he is eren more unfit. He not only jeopardizes his usefulhess as a cavalryman, but impairs the efficiency and durability of the horse. Care should therefore be laked from the beginning, that the recruit does not fall into this bad habit Strict supervision to prevent undue baste in the beginning of the instruction alone will do if The recruit must ride without reins, or with very loose reins, andl his seat is so confirmed that he can ride all gaits without feeling a $y$ inclination or necessity to hang on by the reins. He must sit wholly independent of the reins.
H. Does it not require too mucp time to get the recruits that far?
S. Not if the approved meand recommended in the riding instruckions is applied. It consists in mounted gymnastics. They impart to the recruit address, confidence, self-reliance and resolution on horseback. He must become so disengaged in his seat, that in moving the arms for instance, bofh or either of them, in bending
the lowly toward the eromed. or in any direction. in turning the rump, etc.. the legs be left wholly umaffected and continue to hold the horse gently encircled. The same is true of the hand in which the reins are. It must remain stably and unmored, however forcibly the other arm may he uned. The mecosity fin aly mounted man being able to go through these exereiser, should he exphaned to the recruit at the very hegiminge and repeated until he ham ace quired this dexterity.
H. Colless the short priod alloted for traning makes illstruc. tion in the handling of the reins necesmary ere this, the recruit will at once be able to handle them without altering the seat. and fhos giving unintentional and therefore wrong. aids.
$\therefore$ Earlier than this the management of the reils should never be taught. The advantage of this lexterity. of the command over the limber for the use of arms, and fier correct action upon the horee on the part of the rider, is selfevident. Whoever stribins his body on horseback, stiffens himself constantly, will never come up to the requirements. will never be a good rider or nimble on borseback. Whoever ntiffens himsedt has no rider feeling, and makes the horses hard-mouthed and namb. But anyone who has not from the very beginning been made wide in the crotch, who has not been placed deep in the saddle, will and must stiffen himself the moment he rides faster than a walk, as I just proved. The more mapid the motion, the greater is the effect of the seat on the horse. It has often been incomprehensible to me why so many riders who in the rapid gaits brace their legs forward in the stirraps. and drawing in their body, thrust their seat out behind and hang on by the reins hard and fast, do not become aware of their own aceord, that it is their own fault - the fault of their seat - when their borses at the lons trot or long gallop pull like mad, become unmanageable and finally run away; for I should think it is plain that when the rider. during the rapid gait. changes his position and suddenly bracres himself. it must produce some effect on the horse. The more rapid the gait. the more violent the motion, the more should the rider sit steady and immovable. That holds good for any method of riding. When fretted by the rider on the run, the jockey's horse loves its jump. the soldier's horse its position. When in rapid gaits the rider suddenly takes the jockey's seat. he should not be surprised if the horse loses its natural position and seeks for firm support in the reins. Many riders are surprised at this, and in rain seek a remedy in sharper bitting or auxiliary reinw, when a steady, reposeful seat would do it.
H. No animal in all creation pas to stand such ill-treatment athe horse.

Si And simply because the rider is not tirm in the saddle. As long: as be is not firm in the saddla, at home on the horse, does wot feel secure on the horse, he cannot be considered fit tior war, nor can demands be made on him which have for their object some correct action upon the horse on the part of the rider. Practice will make his seat firm, provided the has, in the first phace, been put in the saddle correctly. Therefore, I repeat it, and cannot repeat it tow often, nothing new should be takep in hand until the recruit has a correct, light and encompassing seat, and has become firm in the saddle.
H. It would seem to meas though of the time alloted to training of the reeruits, not enough could be spared for this purpose. for how many things must the man not learn during this period of less than six months.
S. The time must be spared. The recruit once tirm in the saldle with a correct seat, everything else he has to learn will be child's play in comparison. I would not give up one secoml of the time required for it.
H. But you have just stated yourself that the recruit trating is regulated by certain limits of time, more so than remount breaking.:
S. In the main, yes. But no limit of time should be set to instruction in the fundamental elements of the seat. In most cases; too little time is devoted to the first riding, combined with gymuantics; that is, the preparatory exercises mentioned on pages 34 to 37 of the riding instructions, and for which it is expressly laid down that the recruit shall not begin to ride in the prescribed position andiform until he has mastered them. If all due patience be exercised, and nothing new taken in hand until a good result has been obtained, the time so spent is quiekly made up by the rapid progress of recruits. Again I point out, that each individuality must be treated separately. This rule is constantly violated, for most squadrons give saddle and stirrup to all recruits on the same day, although it is expressly stated in the riding instructions that the matter should be regulated according to every man's individuality. The instructiones say: "After the recruit (not recruits) has acquired an unconstrained, secure seat, by means of the foregoing exercises, be must learn," etc.
H. It requires much patiende; not every instructor has it.
\$. Any instructor who has to impart dexterity of body and
nimblenes, mut have patience. If he hat not that patience he is not fit to be an instructor. Patience is required in remount trailaing: patience in the training of recruits
H. I have found that many riders contract the habit of stiffen. ins themselves from fear of the rehemence and impatience of the instructor.
$\therefore$ That adfs to the bad habit. The contident man alone can let himself so. Whoever is atraid will stiffen himself - whether atraid of talling off or of the instructors displeasure. I will not mention actual ill-treatment. which used to be part of the trainins but is no longer so in our army. Fear at mere soolding by the in. atructor suftices to cance atiffenins.
H. Or the fear of panibment. I hate seen troop (ommathler arder mentrom the hal: inth eontinement on anemat of awkwat riding.
$\therefore$ They deservel the arret themselvers Whereer lose pat tience in riding may deprive bimselt in one hour of the fraits of two weeks work, hot only as remomit rider. but alon as recouit instructor.
H. I presume that sin fiate man value on individual ridines it recruits
\& Individual riding fone of the mast important things fin all manber of riding, whatever may be the stage of training of man atill horse.
H. When ahoald the individual riding of the recruit bexidand the training "en bloc, " an you call it, cease?
$\therefore$ As soon as the recruit has gatined some contidence and firmness on the horse.
H. Eren in the period of preparation of which we were peak. ing just now, and which may last for months before the seat in contirmed?
$\therefore$ Certainly, even then.
11. How is the soldier to guide the horse it he has not learned how to hold and manage the reins?
$\therefore$ Let him ride with very loose reins, and tell him only to pull the right rein when be wants to turn to the right, and the left when he wante to turn to the left, and leare the rest to the horse. In a few days the greater part of the men will be so far advanced that it is no longer necessary to have all the recruits move within the square one in rear of the otber. which kills the spirit. They are then combined in small groups depending on the number of men
who are capable of riding at the head and leadiay the way, and after that each one by himself.
H. What are the others doing meanwhile?
8. They halt, correct their seat, go through exercises at a halt. practice mounting and dismounting, or move at a walk with double rank distance and go through the exercises while in motion.

- H. That has the advantage that at the beginuins the recruit doe not become so much fatigued and "riding throughout the hour" is a coided, on which fast much stress is laid in the riding in. structions, for the time of instruction is apportioned among the in. diriduals.
\$. That is another of the adrantages of individual riding of recruits. The main point, howeyer, is that the instructor can keep, his aje better on each man than when the latter rides as one of : grodp, and that he can correct flualts before they become contirmed. Then it becomes of equal impontance that the man be carly made conscious that tiding means mastering, and that the horse must go where be guides it. For these reasons the recruit learns more in the shont time allotted to him for individual riding, than if he had been on the go throughout the hour behind the rest of the squad.
\#. On the other hand riding in squads cannot be entirely di*penged with, when all the recruits are to be taken in hand singly.
\$. No; both should go hand in hand throughout the entire time of tha recruit's instruction in riding. In the time of the preparatory exercises, as they are called in the riding instructions. riding in squads serves to render the rectuit capable, by steadily increasing lessons, to keep a correctly encdmpassing seat, and individual ridins serves to instruct him in detail and to kill errors of seat in the germ. During the period of the recruit's further training individual riding forms the training proper, and riding in squads with distances merely becomes the proof of the example and means of regulating the rate of the several gaits.
H. I should think that riding in squads within the sqare with distances mustialso be a good qouch-stone if it be the proof of the example, and that it is therefore not to be entirely rejected at inspection.
\$. On the contrary; the inppector should see the riding within the square, with distances to prgve the example. Only the inspectors shoald not be limited to the ridng within the square, nor should the whole year be devoted to coaching for riding on the riding square. In that way the aim of the covalristic training would be missed. entirely. Every day, and esperially when they hare progressed in
the application of the ads by thish and rein. the men should be given an opportunity to disperse on the most extensive possible ground and exercise ( ${ }^{\text {thmmeln }}{ }^{*}$, their berses individually. They remain, of course, under observation. This should be kept up after the recruits have been placed in the ranks. Now and then a man -houd be called up, whom, for one reason or another, the instructor wishes to take in hamd. Again. he should call the squad ogrether to inapect the gatits and convine himself of the precision of the riding. In this manner yon will educate men who will be at home in the saldle, and keep your homes tresth.
H. You spoke of riding on an extensixe ermund indicating that you mean the recruits to ride in ye open, yet you said he lant time that the covered hall was for renfonte and recmats.
$\therefore$ Whenever the weathergeng way permits, it is more bentfieial to recruits and horses, 县 their training as well as for their beath. to ride in the open. When the cold maker the fingere stith. and the man catn no longer feel the reins, when the feet pain from irost and this paindiserts the attention. when the sround is frozen hard and rough so that horses will go lame on it rithing in the open casem to be of benefit wo the recruits and then you resort to the hath: hut there they should ride exatly as I have just explaned for the open.
H. How tar his you think the recruit ean he goten in the art of riding proper betore he is placed in the rank a in tho apriner?
s. Not a bit farther than the exereme in the first jate of the
 to be permitted. Lesons on the double trail are entirely th be aroided. The men camat be suttrenenty advanced for them: it would simply realt in senseless. $/$ haichetn" of the lawses. and rember them disobediemt and dull w the aids. The men shond be habituated to leaving the horses alone when the ${ }^{-}$nhey Artistic tricks are not needed for cavalry service. Fxcept chaing in, drewing back, allal turning short they do not weed anything. We should be content if the men learn how to bring the hores up to. and keep them at the hit. That in itself requires very good howes and attentive, intelligent men. Nothing else is needed for exercising and controlling their horses. This latter is a requisite for the monnted mans efficience. otherwise cavalry canot make a compact charge nor can the men control their horses for rallying and for the individual combat The superiority of the cavalry of Frederick the Great consisted in this, that every mán had learned how to ride. i. e. how to control the horse. The efficient riding of the men made the velement closed
charge possible which overthrew the opponent. The then manner of charging bas been lost, because the men are now too little exercised in practical riding and drill.
H. In this respect your view are diametrically opposed to thow of General von Schmint, for he demanded "the further training of the recrait in side paces," and "qthat they be early taken in hand."
S. If by "early" he means that they be taken in hath before the recruit has learoed how to drill with the squadron. his riew, are, it is true, diametrically opposed not only to my riews. based on long practical experience in the service, but also to the first precepts of the riding instructions, which limit the recruit's training previous to his being placed in the ranks, and confine it to the exercises of the first part. $\mathrm{Up}_{\mathrm{p}}$ to that time the recruit instructor has, therefore, no authority to teafh side paces. But that is not at all what the General means. He shid it when he gave orders for the individual combat, and these orders falling in the months of March. 1873, June, 1872, and July, 1865 and 1873. were therefore given for the period of summer exercises, during which the recruit is in ranks. In the discussion of the selection of remount riders I told you that it was necessary to instruct the pecruit selected for the purpose, in the aids and their bbject, on traiped horses. In this I am in accord with the instructions and with Squmid. It is not possible that he should demand that all recruits, fren those whose progress in riding hus not been satisfactory, should learn the higher lessons of riding: if it should be bis intention that in learning the aids the recruits should train their horses over again, I consider him in error. for they can but mistrain them. Do not forget that I mean them io have the best trained; steadient horses in the whole squadron.
H. I need not ask, since I know from your views formerly expressed, that you consider training in the long gallop and the lons continued gallop (drill gallop) wo the crown of the instruction in riding, for recruits no less than fipr remounts.
S. Certainly;
H. And when do you mean lo begin with it?
S. It would be very nice, indeed, if I conld begin before the weather drives the recruits into the covered hall. There are yearstake the winter just past-when we can use large gromms in the open until January, and when recruits and remounts are not consigned to the hall until February and March. In other winters it is different.
H. In no case would recruits) be allowed to ride the drill gallop in the covered hall.
$\therefore$ So more than the remonntan oncount of the many corners, particularly in small halls. in which the horses would simply he ridden lame. As soon. bowecer, as spring permits them to go into the open. the drill gallop should he practiced systematically with increasing duration, that the horses maty get in good wind and the recruits learn to feel at bome in it.
II. The medium gallop alone should, then, be ridden in the hall?
S. To teach the recruts how to diminish and incrase the gait Instruction how to increase and diminish the gait. in trot too. forms one of the principal means of traningr, in order to impart to the recruits a correct conception of aids by rein and thigh. and to sive them an idea of what is meant when it is required that the home in position should be light in hand.
H. Does ront the rolt also form a sood means of training. in order to show the recruite the effects of the rein in turning?
$\therefore$ The prescribed colt of six paces diameter is a severe tex for man and horse. It should be required of thoroughly instructed men only. Incorrectly ridden. it is injurious to the horse as well as to the production of the correct rider feeling. Now and then a man will jerk hif horse around in an unreasonable and hutal manner, to aroil collision with his rear or front man, and if he is not detected and corrected, he gets an idea that he did the thing right. In most cases the rolt is required much too soon in squade and with sis paces diameter. It shond be done very carsfully. When the men are taken in hand singly, larger volts, entarging and dimininhing of the circle. should form the beginnings and it is not until every man by himselt can ride them correctly. that the proof of the example should be made as soon as it is powible th rive on a large square in the open.
H. We haive, I beliere, toubed nearly upon everyhing a recrnit is required to learn betore he cath be placed in matis for drill. I almit that your demands are wht very high, that you have sufti*ient time to render any haste in the first preparatory exercises ior confirming the seat unnecessary.
$\therefore$ Do not forget that I do not demam moch in quantity, but all the more in quality and that it requires a very skilftul division of the time allotted - to riding in order to go to work in individual riding as thoroughly an I want it. If however, you mean to axhans everything the recruit has to learn before he is fit for the ranks, we have omitted several important matters.
II. And they are?
s. Instruction in and development of the full gallop, riding in
uneven terrain, overcoming obstacles, rallying. and use of arms. The overcoming of obstacles is the keystone of the structure, by means of which confidence in himself and in his horse is instilled in the recruit, without which he cannot possess that intrepidity, that fearlessness, whigh is indispensable to the caralryman. It is almo. lutely necessary that the taking of obstacles be first practiced in in. dividual riding and not in squads. You may frequenty observe that the obstacles are taken in squads only, the horses jumping atter their leaders in apite of the mostiawkward aids as does a flock of sheep after the bell wether when the latter is thrown into the pomil. It spoils the horse and gives false notions to the recruit. When the man once knows how in medium trot, medium and drill gallop, the horse should go in balance and with light and confident leaning on the bit, and when be begins to foel at home on its back at all raits, then let him ride toward the obstacle without rein at a steady but energetic gait, and the horse will jump over without special aids. In the jump he should rather give the horse its head than interfere with it in any way with the reins. Nor should the obstacles be too great in the beginning. When the recruit has recosnized that nothing special is required, he will soon gain contidence and enjoy the jump. That is evident from the fact that when permitted to exercise his horse at will, he will often take the ohstacles of his own accord- Not before this period hay larger obstacles be used. I don't like to see the men take obptacles in squals one in rear of the other with distances. I prefer to lead them across in a swarm with intervals as a preparation for jumping in close formation.
H. In that case the squad whate hatomation about like the hunters at the start of the chase.
S. About so, but with this difference that they strictly observe and retain the same gait, be it trot (30w paces) or athop sim paces), and avoid rushing and racing. In the same manner the squad should be frequently instructed in the uneven terrain. The recruit here learns to entrust himself to his horse with confidence. to guide it lightly by the rein, het it choose its own way of overcoming the terrain, and to give it no aid beyond throwing back the upper part of his body when the horse stumbles. He will then become aware how much the horse will do when not interfered with by the rider.
H. The same bolds true of dimbing. .
S. It should likewise be influded, and the rider' needs to do nothing else begond shifting his center of grarity forward or back
in climbing up be down hill without changing the middle part of his body. athing the rider has learned through monnted gymantics.
H. It also implies that the horses while undergoing breaking as remountw, have learned how to so wer the terata independenty in this manner.
$\therefore$ I again remind pon that the remuits are ridting the best horses in the suadron, which hores I prewme to have learmed bow to go over the teratin. The srateot pertection of this manner of remonnt traning can, of course, be reached only if the squadrom. recruits and remounts, old men abd horses. have been trained for reveral succesive years in the manner printed out be me. It would be amed at from the beginning. wherwioe the seratext warlike eeti-- ience would never be reationd.
II. You mentioned rallyine ar one ot the subjects of tratinite
$\therefore$. It is one of the most ewential requirement ont aralry that it hav learned to rally quickly in orter to be usetul before thes comy and capable of achieving the highest reantes. It is an incon. trosertible pringiple, acknowledred by walry kaders of all time. that in the caraffy combat a closed reserse dhould always be kept in hand with which to bring abont a decision at the most critical moment. The last reserve mast, however, be thrown into the fight. otherwise it would be just as well mot to have any. If the squatrons and regiments first thrown into the fightare experienced in rallying 'fuickly. they become after rallying the closed body in the leaders hand. If they are not he is without a reserve. There are other emergences that are lable to arive and make quick rallyine a matter of importance

11. You need not prove to me the importance of the ability ot the whole squadron th rally quikels. No ome disputes it. only 1 thousht it was at subject of practice on the part of the formed *quadron, and did not betons to the perion of recruit training. You mean to have the recruts practiced in rallying on the sounding of the asembly, as soon as spring weather permits riding in the open
s. That is far too late. It should be begun on the first day on which the recruit joins the suadron; at tirst, of course, dismonnted. So falling in for drill, no call should be allowed to pass, without practicing the men in assembling quickly and in good order. and in finding the place where each behogs. When the men are sof far in individual riding that they maty be allowed to exercine ( $\cdot$ tummeln", their horses by themselves and at will. they should never be asombled in any other way than upon the signal or call ot assembly. Now at the trot, then at the drill gallop, with reining in and coming down
to a trot near the place of assembly, again for assembling in closed squad, stirrup to stirrup; another time with intervals: again for riding within the square with dustances, the leaders trotting. etc.. depending on what is desired to take in hand next. One should be inventive, and vary the exercise good deal, in order to habituate the men to ride with their heads. It is only in this way that the whole squadron will be able to rally quickly without the men bumping into each othel and laming the horses by awkwat checking, or rushing into the ranks.
H. As to the use of arms, I believe you will bave nothing special to say; at least I know that the two cavalry regiments which once formed part of mys command attached proper weight to it and practiced it industriously, so that $I$ was often delighted with their efficiency in this branch, as mentioned once before.
s. I wish to congratulate every regiment of which that is true. I believe, however, that not a few fall short of what may be accom. plished. Our western neighbors have mostly, including past times. been superior to us Germans in this respect. Yet the use of arms ithe main thing in the employment of cavairy in battle. What will cavalry accompligh, however wefl it may ride. if it has learmed neither to cut nozthrust, and doęs not hurt a hair of or at best giver a few bruises to the enemy whom it has orerthrown by the shock? It will simply be cannon and musket fodder. The use of arms in all kinds of situations should be most industriously practiced. not as a mere exhibition for inspection, but also in individual riding amb "tummeln." It is not necessary that all the men be trained to be fencing masters. : It is merely requisite that they cut with the else and hit the spot ajmed at. The ihber is a splendid arm which halost in prestige redently simply because not enough attention is paid to vigorous and sharp cutting. Yor should thrusting be neglected Here, too, it should be observed that the thrust be rigorous and short, and that the men hit the point aimed at. Tricks are unneces. sary here also because beyond the capacity of the great mass. In diridual combat should be practiced, not in indicated rounds between Nos. 1 and $\mathbf{2}$, the old unprafitable scheme. but in the manner pointed out bs General von Schmidt.
II. Thus it whs done in the regiments of which I spoke. The recruits chased each other over the hurdle in the "je" de barre and each had to learn bow to defend the kerchief.
S. I can only repeat that I cangratulate the regiment.
H. One moreremark. Whed the recruits finish their training as such and are placed in rankf, somebody must tive julgment
whether the have sufficienty prosesed and that is posible ony through a final riding incpertion. he it mate be the general the colonel. or squadron commander. The recruit instructor himself is not com. petent to render an objective futgment.
$\therefore$ Do not talk to me of final riding inopetions. I dislike to hear the word mentioned. Immediately I see squad drills according to prorram. coaching. stemif work. ett. The superiors are the ones to inspect, frequently, vety frequently as much, and when and what they choose But they should come unexpectedly. They should inspect aceording to the degree of training of the recruit. If possihe. they should be present only during the lessons. Afterward they may let the men ride within the square and then send individ. uals here and there over obstacles, neross conatry, to convince themselves that the men control the horses. But they should not look upon the riding hall inspection as the crown of riding.
II. You have said vourself, that the recruits arrise on a certain day and must be fit for the ranks by a certain day in the spring. somebody must verify whether they are far enough adranced.
$\therefore$ Such final riding inspections have the additional disad. rantage, that they are necessarily held in a superficial manner. Aceording to the regulations established by our highest authority, the regimental commander is responsible for the thataing in detail. He is to make the final ridine inspections, if they are to be made. In order to apply, in his judgment, of the sereral squadrons the most uniform possible measure, he inspects them as near together in point of time as possible, i.e., the fire squadrons on fire consect tive days. He thus sees 135 horses tive times in fire days. If he wants to obserse each individual, his attention becomes relaxed and finally he sees nothing at all. Nothing then remains but to whorten the time allowed for each squad and give judgment en bor by allow. ing thirty or forty minutes to each squad, and letting them work in the square according to program. On the other hand. if he is present with one or two squads each day and comtinues to be throughout the winter. he may gain a correct idea of each rider without orerdoing it or orerfatiguing himerlf: he can "individualize" ath see each horse and rider often emoush to form a correct juldement. and interfere by timely adrice
H. That is well amy gowd during the training. Sprint in ap proabing now. The oquadron is to be formed, way on May lat. Who. in cour opinion, is to state on April 3uth that the recruite are sufficiently advanced? Whover it may be. he must convince him. self and make a fimal inspection.
S. What of the squadron that is to be formed on May lst? Miy. not war just as well break out bet qeen October 1st and May 1st? Would you like to see the squadron dissolved during seven montlix and fit for war during fire months only? The squalron shoult constantly remain formed; without the recruits it is simply weaker by forty men than with the recruits. The latter are placed in rank- on a certain date, let us say on May: 1st. It would not be ratinual to place them all in ranks on a fixed day. Many a recruit will be able to drill with the older men by April 2nth, others not betore May 10th, the laggards still later. I like to have it done this way: the troop commander knows his recruits and sees them every day. H, says to-day: "Petercan drill with the squadron from now on; Pali. to-morrow; so may Jack and Mike '" etc.
H. Two or three recruits will finally be left, and it accillent will it so, one from each squad if ${ }^{\text {ghere were three or four squals }}$ originally. Is it not a waste of engegy to keep up the apparatus of instructors, or the reduced squads combined into one, and do the pupils change instructors? This calurse would have grave dixadrantages and would interfere with the continuity of instruction.
S. Does the recruit cease to be a recruit simpli becaluse he rides with the older men in the squadron? Does he iot remain a recruit throughout the year? Hence, on account and for the purpose of his instruction, he should have the same instructor through. out the year. The squadron would ho well not to drili two ar three hoursevery day. The old riders hay take a turn on the splare and exercise their horses singly, go through the excreises with arms, etc. The squadron commandir should during the first or last half hour of drill take the squadron together for carrying out drill movements wherein those recruits participate who are sufficiently adsanced, while the recruit instructor utilizes this time to derote himself npecially to the laggards.
H. I think not only the recruits but also the older riders eath separately are combined in the squadron in the spring.
S. Cnfortunately that practice obtains in most regiments, and that is the very thing to which I object in the manasement of our service.
H. In what why would you like to see it changed?
S. Of that we will speak the next time in the discussion of the further training of man and horse.

HE new carbine, -onn th be mannfactured at the Springtied Armory. will differ somewhat from the model origitally recommended by the board of ordance otticer in september. 1sate. The principal chathges are an follows:

First. Its weight has been decreased ten ounces or more principally from the stock. The stock has been shortened. and is similar in length to that of the obd springrield carbine. instead of being carred up to within a few incher of the muzzte as in the original model. Two large holew have heen bored in the butt, and some wod removed by fouging out the stock under the barreland be. tween the hand-grooves. This decrease will bring it, weight down to within at ounce of that of the springtield.

Second. The projecting ramrod (similar to that of the rifle) hav been done away with, and a jointed one fut in the butt. This consint of two parts exactly abike, lour enough when serewed together th clean the hore from both ends. but requiring an extra piece attached to these to remove a defective shell or one the extractor hat failed to withdraw. Th? shape of the present cartridge (and (hamber) is such that the extractor seldom fails, and defective shells will not be common. In 3,1001 rounds fired by me. the extractor has never failed to withdraw the empty shell.

Third. The swivel bar. instead of being on the left of the small of the stock, where it was decidedly in the way. has been moved forward so that it occupies about the same position it did in the Springfeld.

Fourth. The safety-lock has been improved, and arranged an an to lock the bolt when the piece is not cocked as well as when it is, thus allowing the carbine to be carried in the boot without danger of the bolt being loosened.

Fifth. The cat-off has been reversed, so that when it is ". down. single-loader tirecan be used, and when "up," the matyaziue.
. Sixth. The hand guard has been extended to the rear, an an (w) cover the forward end of the receiver, and the rivets countersunk .o as not to come in:contact with the hand.

Seventh. The edges of the barrel at the mazale have bern - rounded, as in the old carbine.

Eighth. The projection of the lower batud (below the stock, as in the original model, has been "dole away with, and a band somewhat similar to the old carbine band adopted. There were two bands in the original model, but the upper is no longer necemary with the short stock.

Ninth. The hingebay head has been altered, so that it call be easily turned, and the hinge bar withdrawn, instad of requiring considerable force and risk of breaking, as in the ritte.

Some of the other changes are: the doing away with tbe secur-inf-stud on the sleeve, removing metal from the guide-rib, and in. troducing another gas escape in the bolt.

The short stock is adopted tentstively, as it is thought that per. haps the smailer barrel, unsupported by the wood near the mazzle. cannot stand cavalry service withoat being bent.

It was thought best to give the present pattern of sight a trial. and if found unserviceable on account of the projectings slide, it will be changed.

On account of these changes tite new carbines will not be issued quite as soon as expected, but the garalry, it is thought, will get a muct better arm chan it would have, hail the original model been issued.

TBOOP •.A. N.ATIONAL GT.ARU OF NFW YORK IN THE RECENT BROOKLYN RIOTS.

 reent Brookion riote will be of interest to the eatralry service at lare. I firward. by permisson of the Adjutantieneral of the state of Sew York a eops ot theremen rembered to the Assistant Adju tant General of the Second Brigate. N. G. N. Y:

Headqcarters Thomp …" Park Ive and 94th st.. Sew lork, danaary 30, 1e95,
Tr, the Axixtant Adjutant-(ieneral, wound Brigute, Brouklinn, .N. Y: :
Sis:-I have the homer to submit my report: General orders. Headquarters First Brigade, dated January $\because \because=1 \times 95$. received at
 Armory at once and await orders. I immediately proceeded to a telegraph offee, and sent 112 telograms, directing the member to report at Armory immediately, ready for fieh wervice, then directed the Commisary-Corporal to set ration-tor two dayt. hire a wason to conver cookiug utensils, mate arrangements to liare breakfast in the Armory rery early on the morning of January $21-1$. Then went to the riding schooks getting tifty horses trom Durkels, forty from the Crintrai Park. thirteen from the Fifth Arenue Academs which, with private homes made up the required number, then proceded to the Armory and as som are eough mon arrived they were sent for the horec.. Which were brought to the Fitth dremue Shool at Ninety-fourth street tor shelter. The men were constanty. coming in, so by midnight there were about eighty present.

Janary 2lat. Breaktast was prepared at Armory, and ready at 3:30 A. m. The command to sathle ut war given about S A. M. An that when orders were received at $1 ;$ A. m. (u) move, the troop marched with eightr-aine men and horses via Madison to Fith Avenue to Twenty-third Street, to Twenty-third Streat Ferry to Broaltray, Brooklyn, and then on to Fultin Street and Tompkins

Arenue, arriving about 8:30 A. In a short time fourteen mont men and horses joined. Relieved the company of the Thirteenth. which was stationed there; posted mounted sentinels on Fulton Street, and also on Herkimer Stfeet, guarding two large car house - some distance apart in Fulton Sipreet, and also an electric construc tion company's bouse and material on Herkimer Street. Quite a large crowd was gathered in the vicinity, so I directed sereral mounted men to ride up on the different sidewalks and dispermount what and erow collected asain them, which was sonn ane 10.30 . I went to Sumner Arenus in our neighborhood. At 12 :30 Pl. M. Toud a small mob had been on being told that there kas trodble; tound a smal mote troop was dispersed by police; marched six miles. The whote thoopen and put on guard during the first day, platoons of twenty five menosing horses at at time. During the dayy everybody at 5 p. M. the fir on the streets, so for the night. The kitchen was located it Herkimer Stret on arrival, atd dinuer was ready at 1 ?. W, Herkimer sirions and wood from New York. The horses were brought provisions and wood poriner Streat, wecpt the guarid placed in old car stables on which were kept saddled standing in Fulton Street entrance, reany for instant service. Stable call at 4 P. M.; supper was served at p. y. Two Swiss gentlemen, Janot $\&$ Sheidler, offered two fon of watch factory for men to sleep in, which were artificially beated and made an excellent barrack.

January 22d. Reveille at 6 A. m.; watered and fed horses: break fasted at 6:30; at 7 guard was ghanged, the second platoon under Lieutenant Halpin, marching on for twenty-four hours. Every. thing bad been quiet during the previous night. About 12 Ir re. ceived orders from brigade headquarters. that there was trouble at Ralph Arenue; sent Lieutenant Badaley with all of the second or Ralp Arence, guard platoon which was platoonfis to saddle up; was informed by at dered the third and fourth platog that a crowd had gotten in between Lieutenant Badglef and ourselres, and were trying to cut the eable with shears on poles. Iat once sent Lieutenant Reed with the chird plataon to move up Fulton Street, to get in touch with Leu tenant Badaley, and to keep the street clear back to Tompkins Avenue. I moved the fourth pladoon into the Fulton Street eutrance of car stables, and kept them there at stand to horse ready for any emergency The second platoon at Ralph Alvenue was relieved by the fourth about 3 p platoon at R BADGLEY reporting that on his arrival at
 ing the streets; warned it to disperse, which it did not do, so he or dered his platoon to draw saber, formed line across the street from house to bouse, and charged the crowd, dispersing it and driving it in all directions. There was no further trouble that day or nubse quently at that point. The third ańd fourth platoons were kept out till darkyand then drawn in. During the evening one of the senti nels, S. Rowe Bradley, Jr., orddred a drunken man to more ou; he
 the collar in an instant and stanted with his prisoner to the gard house. when a crowd of atont tifty mafher ran out of a satorn to reecue him. When the three monnted watinch in the street at a sith from
 and most eftectually drove them out of the nefishburboot. The primoner was brousht to the enard henare and turaed over to the pulice, who had heen telephoned to come ater ham. A wergaph wire was put intu the tropin office, therehy connecting me with brigade headquarters luring the weming received orders th semd out detachments the next day th zuard constrution partie- and wons and line reparing parties and warom. Marched darme the day about twenty five miles.

Jonuary 23A. The detachments ordered out, had hreakfact. fed ath watered horses at 5 a M. and moved out at bis. M. guarding wagons of track elearers. The one under sergeant dacobts returned at $s$ a. M.: traveled seven miles. Ahother detachment
 Plate to Flatbusb Arenue, to Third Arenue to Fitty eighth itreet, thating working party clearing tracks, superintendent representine that a Jong distance of track was seriousty cbotructed and that Hu. neishimorhod was a bad one. This detachment returned at 11 A. M. - Chared all obstraction. Quite a rough moh rathered at Fitty-first stret and Third Arenne and were inclined to interfere with the workinen. The officer in command. Lieutenant Badiaer. ordered them move. which they were inelined to resent. so the put his horse fato the crowd followed by his thoopers: five or six toushs fell dowin a steep hank getting out of the was. and the remainder ran off throurh a racant lot and gave no turther trouble The party traveled athout fifteen miles. Care ran on the Fulton strect line after 10 A. m. resularls. and move people were using them. and quite a number of dadies who semed to have goten over their fear. Horses and men are in excellent condition. Informed higade headquarter that there was no whection to continumg same work nex day.

Jomury zith. All quiet luring the nisht. Sent gut two detachments at tiA. s. with linemen and track clearers. Cars ruaning on Fulton street since $\overline{\mathrm{T}}: 30 \mathrm{~A}, \mathrm{~m}$. At $8: 50$ a. m one detachment under Sergeant Williams returned with repairers, found line rut in two or three places; repairs were made. Distance traveled, eight miles, going to Alabama A renue and elsewhere; no crowis. secomid detachment under Lieutenant Bridgman returned at 9:0i A. M. having traveled large part of Brooklyn to Navy Street, to Court House to junction of Manhattan and Xassau Arenues; found a few switches frozen; no obstructions anywhere; no crowds: no demon strations of any kind; traveled ten or twelve miles. Sergeant Wilifams and detachment went out with linemen at $1: 30$ p. m.: re turned at $4: 45$ p. M.; went to Tompkins Avenue and Flushing Arenue; found quite a crowd which they kept moring: no trouble at Broadmay and Sumpter Arenue; found wire cut in two places;
repairs were made: found two cuts on Fulton Street at Hopkins Arenue and Stone A venue; a small crowl gathered at Stone Avenue it was kept moving; no trouble; detachment traveled about twels miles. Another detachment of twelve men under Lieutenan Bridgman went about 1 p. m. with track clearers to open up Tomp' kins Arenue and Flushing Avenue; returned at $+0 \mathrm{~s}_{\mathrm{s}} \mathrm{p}$. m. Lientenant Bridaman reported that he marched with obstruction clearint wagons and men to Flatbush trenue, and so on towards Greed Point Arenue; found no obstructions on the track. hut switehes were frozen, water having been poured on. . It the corner of Green Point A venue and Kent Street a crowd of about two thousam tormed on the rear of repair wagon and epcort, and made threats and threw stones. Lieutenant Bridgman formed his detachment in line, facel owards the crowd, drew saber and moved towards the crowd at a walk, crowd falling back slowly. The Lieutenant then rode alone to the crowd, and said: "I give ydu fair warning to stop throwing stones and to disperse, and if you do not I will charge you, and somebody will get hurt." The trowd dispersed, going into houser down streets, etc., giving no further trouble. The work wat contibued, and when the detachment returned, found the same crowd but no disturbance was made. The detachment traveled in all about twenty miles. About $\&$ P. M. a man placed a barred of asheson track
 arrested. Police sent patrol wagon on application by telephone. Trooper Thorne appeared against him later, and a strong ase wa made against him of placing obstacles on the track, thereby endan gering human life. At $\mathbf{5}$ p. m. a detachment of Lieutenait Habpis and eight men went out with track clearers, goine to Sostrand Avenue and Flatbush Avenue; found a small crowd but plemte of police who kept crowd moving; then went towards penitentiary and some distance into the country; no trouble. Traveled abont ten miles. At 8 p s. small detachment went out with linemen up Fultoh Street; repaired wire; small crowd; no trouble: traveled about seven miles. Detachments were also sent out short distance to escort repairers.

January 25 th . Reported to brigade headquarters at $\mathrm{s}: 30 \mathrm{~A} . \mathrm{m}$ Two detachments were sent out last night about $9: 30$ oclock with repair wagons; repaired the wire in several places; each party trar. eled about seven miles, making the total distance traveled by the various detachnents on the $\mathbf{2}$ th inst. from eighty to one hundred miles. This morning two large detachments were sent out at is having breakfasted, fed and watered horses at \%. Une under Lieutenant Haxpis returned at $\mathrm{B}: 30 \mathrm{~A}$. .., having gone with line repairers to Bedford Arenue and North Fourteenth Sitreet on Bush wick Avenue: found wire cut; took an hour to repair it: returned by same walk; no trouble, no crowd; traveled about seven milew Policeman reported to lieutenant that wire was cut previous nisht by six men in wagon from Long Island City ; wo of the party were arrested and found with piece of cut wire. Cars running on that line all of the $\mathbf{2 + t h}$ inst. Another large detachment under Sergeant


 returned: aport the went th cohmbia street and cleared halt a mile of wire of dead cat- ath all mamer of debriv: aloo wome Merthe Arente ant Sumber Avane and pat in eetion of wire;




 Avenue: travelad thout thre mites. Received word about 11 a w. that Noxtrad Jrane Line wan to be opened and that crowd was collerting to mate tronble. sent wht one phatom under Lientemant Refor down Fulton Stret : anther under Sergant Nobobs. down Herkimer street: Went myolt, di-perine omall arowd. kept plat




"Infurmation jast rewiverl states that a mert, of 1.50 has asemblen in


 herely directed to procerel with one platom to above print hy the following route: Thrmigh Thrmp Avenay to Fhathing Avenne and then to ripht. thence out Flashing Avenue to Johnon Avenue; at this point await arrival oi the theriff of Queths counts. Ii he hanks sua written order sighed ly


 having piwn them saie conduct, yon will return to your headquartere, and pleaser report the result of your experiene in carrying out the ene ir ler-.
J. B. FROTHISGMAM
A. I. G. 心omd Brignde."
 platoons. learine $x$ wo platoms with two othere ac beadquarters.
 tenant Badabey and Lientenant Reen, and returad at $\mathbf{3}$ :30 pas. making the tyllowing repert to brigale healquarters: "In puranance
 there at 3:1.5 P. M.: had to wait some mimutes; finally lale sheriff came: had nd communication: he went into a house wrote what was reguired, when I proceeded. Met the sheriff. who wave me the formal application which I will toward. Proceded th the engine house: arrested six men. who were held by wome doputies The rowd consisted of athat 1.00. primipally log: and women. Then tork the primoners to car house, when the sheriff endeavored to serure evidence agmint them. but failed. so be diachargedthem. It seems there was fire out there ahmut 12 wand the ensine company was ont, as striker ocenpied the bome and when ear contaning
new motormen came along strikers ran out a hose carriage acrose the track, boarded car and forced the men to wo into the engine house, where they were held for a time, and then allowed to aro by ones and twos. By the time the Deputy Sheriti arrired none of the motormen were left, but finding six men in the house, held them until we arriced. I do not think there were more than three or tour hundred people there at any time, and many of those were attracted by the fire. The crowd of men dispersed before we arrived. When I went with Sheriff to car house, u detachment of eight men umber Corporal Greer was left to guard engine house. Shortly atter my departure a crowd of about $1 \overline{10}$ men collected, and were very ugly. so the Corporal ordered detachment to draw sabers and charere, striking a few, and effectually putting them to rout, falling over ead other and getting out of the way, running them off through the fields to aome woods. Distance traveled, about twelve miles. About $\because 1$. m., just before my departure to Maspeth, sent a detachment of Sergeant E. N. Nichols and six men to ghard linemen: they went to Green Point, to Bedford Avenue, and found two blocks of wire down. There was a jam of curs and a large mob of fully $2,010 \mathrm{men}$. Who weve very ugly, threw stönes, hooted, etc; they boarded cars and took off the motormen, except the one on the first car, which the detachment prevented. Tbe Sergeant dismounted, went into several of the cars, and compelled the mob to get out, striking a few. The detachment was obliged to ride into the crowd and force them alons, using their subers quite freely in trying to control the ugly crowd. there being only seven troopers against $1, \overline{0} 00$ or more One large man, vory ugly, was struck by trooper North with his saber on the shoulder, which glanced and took him in the neck. knocking him down. At that moment one of the troopers accidentally dropped his pistol, which this man who was struck rushed for. Trooper North seeing him, charged down on him and cut him with his saber on the cheek. The detachment controlled this mob for fully two hours, while repairs were being made. Sergeant Nichoms is of the opinion that if the crowd had not been atraid of the troopers. they would hare given them a very nasty time. The detachment went to another point and then returned; traveled in all about twelse miles. Two other detachments went out; repaired wire; traveled about six miles., Total distance trareled by detachments torday, eighty-six miles.'

January 26th. During the evening of the $\mathbf{2}$. 0 th inst., a few union linemen tried to beat a non-union man. It was reported at guard room, and Corporal Marcellus, with two or three troopers, chased them into a saloon, through the back doors, over fences, through them into a saloon, tbrough the back doors, orer fences, through
back yards, and finally captured them. Corporal Cleband rode into the saloon on horseback to assist, if necessary. At 8 A. m., January 26th, detachment that went out with track clearers found a wagoin load of stones at Graham Avenue and Meeker Street; found at Fostrand Avenue and Floyd Street all manner of debris, which they removed; traveled about ten miles. At 12:15 P. m. a crowd reported gathering at New York Arenue and Bergen Arenue; sent a detach-
 of Susenty first had driven rewd from vicinity of workmen Weatchment sat than sume divane off: went there and drowe them

 they woblal not go out without troopers sent a dotail whder (ine



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 same point: $A$ rowd ut alout thre humbrod was bery usty throwing somes dul on torth. making it momomy to rhation with
 drawn. hat did hut conek them: then they diatged. di-pereed the





 the day sixty thate milem.

 stones fiom track; then to Sewtown Brider at font of Grand sireet mate repairy to track: then hatk throurh ('ninn Arenue: no crow
anywhere; trateled about twelsy miles. At $1: 511 \mathrm{p}$. w. secoml detaclament went out under Sergeqnt Wilitams: returnod, went to Atlantic Arende Ferry; to Fultan Street Ferry: 10 Wall sireet Ferry; then through Williamsburg to racant lots; cleared the awitches and wires in all directions, Flushing Avenue to Graham Avenue; crowds along the river front, but orderly; no trouble anywhere; traveled about tifteen miles; troop has covered both East and West Brooklgn to day; everybdy orderly; mo trouble: traveled about twenty-sdren miles. Receifed orders at 3 p . м. to return t. about twenty-sdren miles. Receiped ordew at 3 p. m. to return t,
New York and report to First Brigade, upon being relieved by
 $4: 2 \boldsymbol{0}$ р. м. and arrived at Armory, Ninety-fourth Street and Park Avenue, at 6:03 p. m., about nine miler, making the total distance during the day birty-six miles.

In closing the report. I have the honor to call attention to the gallant and metitorious conduct apd the most excellent judement displayed by Fipst Lieutenant Oliyer R. Bridinan in handliug his detachment dispersing a large mob at Green Point Avenue and Keut Street on the -th of Januafly; abso to the gallant and meritorious conduct of First Lieutenaly Howard G. Badriley, and the most excellent judgment displayed by him in the handling of his detachment in dispersing a large mob on Fulton Street near Ralph Avenue on the 2.2 of January, aqdagain on Third Arenue and Fifty-first Street. dispersing a moblon the $23 d$ of Janaary: also to Sergeant E. N. Nichols, who, while with a detachment of tive men. displayed personal valor by dismountilis from his horse, entering cars filled with gerikers and driving them out, and also uviner most excellent judgment in handling hif men. holding a mot, of about fifteen hundred for over an hour and a half while the repairers were putting the trollds wire in order; this on the $2 \boldsymbol{y}$ th of J antary

As a great part or the work wat letachments in charge of lientenants, sergeante and corporals. I mention the names of the follow. ing in addition to those already mentioned, viz: Second Licutenant Francis Halpin, Second Lieutenan Lathang. Reed. First Surfeant Johi I. Holey, Guidon Sergeant Eqos G. Throop, Serseants Hexry W. Willans, Apther M. Jacobes Fremerick R. Comert. jr. Courporals Edward i. Patterson, Jopy S. Cleland, Hevry S. Kerr. Herbery Barby, Louts M. Greer H. Edwards Fifken. Latice Cior. porale Charles f. Stone, jr., M. de M. Marselfico. W. M. Titis. J Herbert Clafborn, each of whom performed his duty in the most satisfactory manner, and when in charge of detachmente exerciand the most excellent judgment. and had a full sence of their repponsibility.

The Quarterniaster Sergeant, L. V. O Dosome looked after the stables, forage, and general welfare of the horses in a mont praive. worthy manner. The Commissary Corporal, Gifford Hrery. turnished three hot meals a day: hat breakfast for the detachment going out very early, and was ever prompt and efficient, enhancing greatly the comfort of the whole troop. The musicians, artificerand privates performed all their duty in the most willing, cheerfil
manter: wete ever on the alem and reaty to wher ardere thereby reflecting ghat eredit on the town. The emtire tronp acoped cery discoptiort without comphant.-hehaved in the mont sallant manner. ahaliare whethy ot the nather of trace soldiers.

It there are any better oohder I have newor sed them. Out of a membershif of 1 l , erory man exept one reporte tind duty orme time duthe the week The abome man was -i.k in bed
 NuRRL and Prisate Bownt Firet Bricale surat Corpand Private



Ri-pmothlly


## E.STRACT FRMO OHDER

difierat Orifer N. $: \%$

Sew lonk. February 4. 1~!
The ofticars and men ot Troop " $\boldsymbol{h}^{\prime \prime}$ were called upmo tor exceptional efforte athe ther herere - perial emmmentation for their - fferent and soldionly conduce By command of

Brigablior Guneral Fitamatab
(ifinfrat URiner No.

Brocol.ys. Felrually 14. 1-93
 of the condiet of the trong under such trying direumatances. where




 in Bratilyay By comman! if


## BEMARK:










A, a large fertion of the city af Brownta had to la corered every day ln repair men and wasons xuarded by detarhment. of

strated. Tise size of the detachment depended on the condition it the neighborhood to which they were ordered, and varied from eight men to a platoon of twenty-ace. Where large and usply cowd Were found throwing stones and missiles of all kimds. endeavoring to prevent repair men from working, the detachment was turmed in line from house to house across the street, on sidewalk as well as in street; sabers were drawn ; two or three troopers lett immediattely With repair party, and then the crowd was told to dispera failure to do so, the charge was ofdered, amd the mob wav most thop oughly dispersed and driven out of the neighborhoon, many tallin over each other in their ansiety to get out of the way. The sater was nsed fredy, many being hit derer the head, wome faintins aw: Charges of this nature took plage almost daily and in every vac the streets were etfectively cleamen and the work allowed to irn on After a few days it was only neceesary for a detachment of the tre. with yellow lining to their overcoat capes to put in an appearam... when the throwing of stones woull gease and the cowil di-pura or themselves. Ap an instance of the fear that seemed to be in lha
 one night and dne of them asked for proteetion amd sati- conduet ta their homes. Two troopers being near. I told them the walk haine

 In conchwion, it was the opinion of everybuly that the monnath number of dismpunted men. Havidner hud experience is fle butal
 troopers are well drilled, disciplineat and tiades horsemen. hat :he cavalry arm of the service is of the greatest value, mot onls in it persing mobs, qut in guarding pmperty. In whe cane at butlata, two platoons as a skirmish life ploterted neary a miho ot tark round houses, parehonses, ete, two other platoman hering holl! in side streets oppdsite right and lef of lime as a rewere

Trooper Thonse, mentioned in the rejort as arrexting a math tion throwing ashes on track, received a cheque for onw hamdrad dellam from the railroad company, which be tarned over the thonp tum
CHABIFF Fol:

$$
\text { Mיjor } \mathrm{N} \text { (i. i }
$$

The remarks upon the cavalry bit, motel lage in the Mareh number of the dotrvae are opporitume, and we should het it he understood that the cavalry has not hreceived what it anken fors a hit which fultills all the essential requirements of a perfert bit.

The bit has been made on what are eonsidered ideal lines. to give the horse no pain when used to control him, and to reduce the pressure to a minimum; to act. ndt as an instrument of tortare. requiring pulling, jerking aod sawfog to bring the horse umher.
the conten of the riller. This in what we have heell amines tint these many vears. The buad in recommending this motel. wi






























 I :mi - Mry ion reanoi












 time the forse in fres


the moment they learn they can play with the bit, they rajoy the pastime on all occasions.

I have been experimenting with curb strap, but I have fated to find one as satisfactory as the flat. broal, chome linked (arb) whit Indon discovered that no curb) strap of any shape or size. fittent into, the 4 pper ring-the only place thyput it - was in the shightent de. gree satisfactory. I then put abright and lett howk in the upper ringy, made a curb strap of two thickesses of thiu leather. stitched together, with a steel ring in cach end (one rins han an extra link to attach to the hooks. This way a great improvement. get it would not giay in the groove. It would rise up, but not an much a* the one in use. I next tried a round strap. attached in a similar manner, thinking perhaps it would hold better, and not slip up. It was no inprozement. I then boughta steel curb chain and hooks. and hare used it ever since with entire satisfaction. The sted catcheand holds its place. This is givet as the result of my trials, and 1 am conrinced nothing else wall give the vane good results.

The proportions of 1 wwer's bit were made for use with a curl chain. If he had used a curb strap, attached to the upper rinewithout hooks, his bit would not have been proportioned as it waEach bit should be issued with tho hooks, right und lett, and a curl, chain. It will be more expenvire, but we will have dhe right curb. and both map and horse will be satistied: otherwise we will get along as best we may. We will hear it stated the cavalry hav a model bit, when we know to the kontrary. This shouh not be so. because there is no reason why whe shoulid not hate the heat hit ami not be kept aniting two or three rears experimenting. and then get a half instead of the whole loaf. The error mentioned in the lengeth of the upper pranch, corrected, rould improve the look ot the bit. yet would notincrease its usefulfess with the present curb strap,
J. A. AlGifR.


## THE REVOLVER AS CAVALRY WEAPON.

Several Eastern newspapers have recenty publistied some ex. tended views on the revolser andits use as a cavalry weapon. le: Majon Willifm P. Mall, Adjptant Generals Departmeme ani General Dabyey If. Macry hat published similar view. in the Richnond Times.

Both artickes are republished:|without other editorial commont than the simple statement that the rounger generation of caralry oficers search bistory in vain for deefs more successfath or models more worthy of adoption than those portrayed in the recorts of the Federal cavalry, 1863 to 1565 . The men commanded by sheridas. Bupodd, Merbitt, Ccster, Wilsod, Stoneman, Ghernos. and other well known caralry leaders, wert armed with carbine, saber and revolder. The regular army has tot infrequently been criticised thr extrene conservatism in such matters, but as the officers and men





Magor Hable nar-











T, rectpitulate We have ior the maximam rance in the sather furand

 whict we ching than ient arn- tught wh nake a wine -ohlier hagh, we re not


Othe cavalrymon clam that if the alper io home anay with we are ree






























killed，and say they crowiled in upon the cavalry so as to make the tishtint alnost hand to hand．The cavalry deems to hawe been marching by inur－wr
 would not have attacked on both fianks at once，for the reasern that the ir tire would have be fn almost as fatal to gne another as it was to the cavalre．N．．．． it would seem to ko without sasing that in two mounted org：nizationa $1 \cdot 1$ ． caged as these were，the numbers of men on en－h sid．an thally fighting at ．．n． pproximately equal，with perhaps some alvantage in fatwo of the oThe
orh，and it is needless to save beten trained all their lives at this kind of man receis ed．The thess to say at that perion how minch the aterage vavary horsts and handle their arms when mounted only makes the acemonfishmont the wore valuable when attainerl．Whe know the rakal to sareses in thin lit．e． is far from being a rogal one，and the work and Irndgery tonneconl the w with volver． 1 am thoroughly eonsinced，however，that apotrontits with tio r．．．
 then had，and Ifurthermore fully believe the would in close of rarter li．．far more than a match for double their number oi infantry．Opm，ntmitio．
 them under cover of night，and in fuch an erent，with the pow．rairins with areuracy bre shots in four seponds，and the contidence and entra－


The time ewems to have paged when mut bue sur
 expert in any useful direction is certhin to tind a demathe iow hio wirh ：athl if we propose tomake a reputable sidre as cavalry in the hiture．I teriteve w．


＂Ekill in haniling the recolver powiler tulbura


 many things which have been said fefore，and which are evident to tome istol shots
 ng it properly af the object the instint the trigerer is pulle 1 and preventing he pill oi the trgere the blow of the hammer and rewil ai the piotul trom ith drolinary netes if alluwel to hallet has left the mame．Any wh or three seconds on pointing the pistion ufter it is rais．al－can sorin lnewime a fair shut bey paying close attention to of few points．
 ine of the trigger，causing the bulletho deviate to the right or left．Anothor is，flinghing the iqstant the trizper is pulled．Others tiad they hilithe piet，it causing on upt the recoil throws the mazale ap betorethe hallet arts rimt， causing an upward deviation，while sgme allow the binepes and triceps the re．
 to thexe points，noting and correcting the deviations in culiar to himspli，will soon become a shot sufficiently skilliat to enmpete，with mure or kes suce． in the pistol matebes frequently oceurning in ditferent parts of this country
＂This however，is hat the A B O of what is required of cavalromen in handli⿻口卄 the revo ver．It is what the tirst position of the fect and hift hand， and the holing of the rapier is in adogiring the aceomplishon－nts of a marter of fence．The next step to be attainti in this line is called＇snap shootins． correctly．







 The litticulty in whking the reworn is abled turnatlerathy when the




 that it is a marsel how it hat hern kepe in the service solong．The calihe tismith \＆Wexson is．if ansthing a more inditerent weapon than the Colt

The tymal walry rewher slanh be calibre to ar on hate a four－men
 －lwahl be small，to prerent tom mat


 ather on toot or minnet in allow the bollet
 ible by the disturhinge elements．
－We hegin by tea hing thorou－hy in the gallery the principhenf pint－ ng：aming and shoutme the rewher with a charge of five prath of powder
 contioniug him to hoh on the hallsere as nearly as posthe each thme the

 phickly．This，and in tact．all the where the cavalry is armed with a pewd louble－action pistol，firing alwut whe－half the powder formerly used in our rozulation cartridge
 quick，acurate shoming when the hwne is ath highes sine the jhe is ＂r rach the point sotaz
na hope to rise again．
－General Shemoss，in spaking of a French cavalry charge during the Franco－German War，savs：The French cavalry，chared over the（ierman pkirmish line，and aiter they had pasced，the skirmishers＂pened tire on them．
＂A few words upno the methol of hamaling the revolver will bring this paper to a close，with a feeling that we haly arme．The position of＇ready＂ matter of so great inator all cork is very objectionable，on acrocnt of its be ing awkwaril．and dangernus to frionds．It has a tendency to rxite horses and freyuently，when the rider loses his balance，the loaded pistol is brought quickly down，and is sonsetimes discharged in so doing，at a time whert he i least capable of directing its fire．The revolver cannot be fired as rapidy，nor we betieve，as accurately，from the gmeition of ready as whellent．is holding position for iran pistois in the ripht hand．which rests on top of the thigh the revolver by the stock in the rikout wo inches in front of and below the knee．At the command Aim！the object to be hit is looked at ：when the
cominalud＇Fire！＇is given，the pistol is pointed twwards it，and cocked as it is raised，and under no circumstances should it be cocked till in the act oi rais ing it to fire．In pointing at an object it is more natural to raise the hath！ the monzele is on the left sile of the horse＇s neck．
＂This mechanical work in handling the revolver－that is，trainin．the． museles of the hand to act in concert with the will power－whond he pher vered in，as it costs little more than the using upof a fuw inexpensive panto th the resplier．
＂In conclusion，I will but ald that our regular army is small，the suathlop， in proportion to population，on the face of the civilizeil ghine．Wur …untry is the rychest，and pur captains，subalterns and enlisted men are the heat bai．l． account of and trained with a view of developing their mental and whel excellence，and it would seem to go without saying that the．and pliv－j，al oughly to learn how to use the weanons of their service，as it ill becune． to try apd impart knowledge he does not possess
＂In the infantry we beli．ce all，from the captain to the latat private．shmul． be a sharpshooter，in the cavalry，all should reach the eorreswintis：wit！
 to tire，phounter，five shots in a less number of secomits．horse at a rmo ant ：
＂The sword does more damage to the infatry distice win to yards．
 seriousl．with marching．The sword and saber shembl be taken from at cers and soldiers and the revolver substituted therefor be takell from all whi

General Matry＇s letter says
＂M．jor Hall，now of the Adjutant－1；eneral＇s offre，in Wawhinctin，hat
 advocating the greater power of the revelver the the cariling of the sither，athit
＂He makes his case well ond shows that the cavilry wapon．
the subject．It is one which has long been discused hen our cavedrentin，the，
＂Forty years ago the Mounted Riftes now the Third L＂Cus！＂fricers
＂Fofly years ago the Mounted Rifles，now the Third L．S．Cavalry，prac． and the fitte when dismounted，to fight．
＂The introluction of long－range arm
cavalry into mountel riflemen，and for inerensed siphal or the cunver－ine if practice．
expedition were boxed up and stored away when we went upon a hostih． expedition，or were fastened under the left sadulle flap．
＂In 1854，active pistol practice began in the regiment，and the writ．r was ＂red rom ort Mentosh to Corpus Christito how the new pistol prantice
othe oqmmanding general of the Department
Taking twenty men and a sergeant（ ScNally）from，＇t＇Company，and twenty quenind Sergeant Jons Greex，from＇$B$＇Company，we marched by way
of Fort．Ierrill down to Corpus W
anding halted for one day at Fort Merrill，and upon the request of the com－ ised practice ，Captain Gordon Gravier，had our drill by the newly de． ＂Thetarge
arce in tuagets were barrel heads nailed to tent poles（lumber was very part．The tari，which were set up in two parallel lines about twelve varity Th targets in each line were forty or fifty yards apart．
The troop was drawn up in asingle rank about forty paces from the first targets，and rode successfully at speed along the line of targets，firing to the right or the left，or to the right and left hiternately．

Each trooper，in his turn，drew and cocke．l his pistol，hoditing it verti－
 role at－peed diwn the line of tareets tir










 whostruck it
hearty．heer．

 －hantaktinst＇f＇trown




 Furnpanaruli．s．Andaren


 The saber may now hee whsith pi．．an whole te weapen．
 We base ne ver hal any in our aersione
 ut，lik．inayonets，never hart any enemy
 heals．They trial tu take the herat－at rizht＂ut．and recorer to tierere

 urse revermed．


 mountell rithe men：while the sphendid homstheld cavilty of France，the ereatest swordemen of furnee the fammas swetsmen if the world，went


T．befticient now we mast lionome＂xpert with the rifte and reworn




 mediately leals his horses out of tire
＂Thirty ypare ago all experthes in horsoman hip and markemannlup was
 manhip are the mon inf，rtant acomplishinent－of the wher．
＂A very clever French officer wrote about the cavalres service in Al．ine showed that the French troops always iought on foot．
＂On the introduction of long range riftes the Iomini of Ludis Simmens
aclaned that henceforth the role of cavalry would be greatly extented：that declaped that henceforth the role of cavalry would be greatly exteniled；that
mounted riflemen would form a great part of all armins and mounted riflemen would form fogreat part of all armis．And so it has lirected to securing celerity in dismounting to fight and accuracy of tire．
＂Only soldiers of a past generation cling to the＇sworl in＇hand
notably the English cavalry officers like poor Nolas，and vers ine xperin ine young men whose idea of cavalry service is made up of a prancing huree：an uncondfortable young man ill at ease，in his showy clothes and gauly，useles． trappings．＂

The French cavalry regiments hare received special instruction in tho use of the petard de melinite，a species of arematce the bern in the use of the petard de melimite，a species of grenale wo dom
ployed for the destruction of railway lines，engines，tenders．whe graphyposte，iron gates，the breaking of reservoirs heidifes，ably other like purposes．

## HORSES AT E：．ロn EACH

Mr．J．W．Howard．one of the wealthiest stenck raisere of Ea－t．rat Oregon，is in the city on business．Mr．Mowarb say－that there alre more horses in Fantern Oregon than humate inhabitants，and that they are ranning wid，and in many instances are unclamed．The horso market is utterly demoralized，according to Mr．Howard Several yeare ago there was more monev in horses than in catte but during the last five years a great change has taken plate in but daring the last five years a great change has taken phace
thenditions．Now there is scarcely any demand whaterer tore these conditions．Now there is scarcely any demand whaturer tor
horses，and the breder in Eastern Oregon has turned his attention to other pursuits．The future of the horse．in consequence if the incrensing use of electricity and steam for motive power．is indeed very uncertain．
＂I don＇t know what we are going to do with the horse，＂he says． ＂I uring my recent trip through the mountains I saw thousitnds running wild as any deer．They usually travel in bands of fowr or firg，and are so thick there is ho danger of getting lunely if you love of horse，as most men do．Some day，I suppose，we will bill them for their meat，the same as we do with cattle．In Europe this is done now，and I＇m told the meat is very tender and wholesome． A horse＇s bide＇is worth about 82.10 ，and it will not be long befort． we wifl be killing these intelligent animals for their glossy coats． This is an awful shame，but we arecertain to come to it unless nome new use is found for these favorite animals．＂－Portland Oregomion．

MAKING PAPBR HORSESHOES．
When paper horseshoes werd first introduced into the caralry servioe of the German army a fow years ago，they excited a grood deal of interest．Several cavalry horsee were first whod with the paper shoes，and the effect observed．It was found that not only







 ath the：－







－T．ITH．ROA1S











 Bill＂mate a eperal appropriation ut slodum in meet the experse
 －umber atul for the publination ut－uch it．firmation ats woald assist

 leatrot that more that a mone of 天tate have atrealy pased new road laws，while neatly all the nthere are pammine tor the adoption of measures fior the pronotion ot this reform

Fixperithce has shown that the course pursued by Massachusett is the one which commembitath max stomely hoth the perple
 latura amd it is uatural thenplow that it all were familiar with the work here the knowhedge would he ntilized to hring about sim． ilar legialation whereser the methon of procedure is still unsetthed
starting in June，lata a temperary commisaion was appointed o examine into the condition ot the rands，and to dratt abll pro idinir for the improvement of the highways of the Conmonweath The hat suggested by the commisaion was，with some changer．paswed
in June, 1893 , but before any petitions lin romstruction of stath highonys weresubmitted to theqieneral Court.an act was introlue... and passed June 20,1894 , incerdasing the powers of the coimminsion and permitting the selectmon of any town, or the Mayor and Ahtur men of any city, as well as Conmy ('ommissioners. to petition the Highway Commission for taking roads as State highways. In place of submitting to the Legisiature a separate bill for the construction of each road, it was voted that the appropriation be used be the Ilighway Commission, without further legislation, in huiling State high ways.

The 8300,000 hats been pratty evenly divided amotis fourteen counties. Before deciding whieh of the maty petitious should be granted, an official visit was paid to cach locality, band full informa tion to to the value of the proprosed improvement enlleded. While this method has distributed the work in amall sectionsot roads. than increasing the expense per mile, the alvantage to thi people at large will be greater, for the reason that each portion of the stat highway constructed is intended to be an oljecet lesson to those livine near by. County Commissionors and other officials will wateh the work as it progresses, and follow out the same lines in buildin. county and othor roads which are not intended for State highwil!

The plan is to build, section by nection, such poals as will con nect the great centers of trade, and join with through roads in whil States, so that both local and interstate commuiniation will be ben efited.

The provisions of the law permit contracts for the (anmetraction to be let to municipalities or to private corporations. but the former arranurement is preferred, as it is more effectual in teaching the perphe tho aft of rond building, and protects the State agrainnt cheapemine the work by the importation of foreign laborers, ath dement which is apt to bo objectionable.

A resident engineer is appointed by the Commiswion, and it in his daty to be in attendance, and keep a correct account of all itcoll to be paid for by the State.

Wherever the traffic was of sufficient proportions to warrant it the roads have been brondenę. The advantage to owners derive. from the construction of the way ie, as a rule, so much greater that the injury to them by widening the road that, in a large majority of cases, the town officials have been able to procure releases with. out aby cost.

Thirty-eight sections have been contracted for, and only dirht of thom are to have a width of eighteen feet of hardened surface all others being tifteen feet wide. As the primary object is to gret length of way, the Commissioners are considering the advisability of ballding single track roads in. the thinly settled districts. Thes would not be over nine feat wide, with here and there portions of double width as convenient pasising points for carriages. A mile and a half of such roads can be built for less than the cost ot a mike of fifteen fect width, and the advantage in getting produce to market
 where thearerage traffic is trom six io eisht vehicles an hour.

Progress has been male in the latwratory work wn the raat building stones of the state. Foperiments of this kind are carriad on at Harvard ${ }^{\circ}$ niversity in the Iawroner scientitic School. whome dean. Brof S.S.SHader. is a memhor bt the Highway Commision. The dhef aim of these inguirics has been th determine the qualitios which constitute fitness tor road makome This will be of value to the Commis-inh in enabling them th mitize the road material mear
 the work progresces. map-are male showibe the location of all depusits suitable for roal buiding

A number of towns hava alpealy appropriated mones in build their streets in the same atceal mather as those connarucited by the State, and others have purdhad rowh marhinery with the intention ot extending the work on rable other than itate highway
('arefal consideration hav been orven to the pan of plantint -hade trees along the highway With this end in vicw, experte have been consulted concorninte the heot saricties for the purpore and the wavide tred hate been examimed. on as to qutermime the species well adapted to the climatu abl mil of Nassachunetts

A- the extinated experse ot procurinas and phanting there trees
 male this question suculary toral building. hat in the meantime thev are collecting such data a-will chatle them towork with protit




 ot protecting them from these peots would he considerable Maples grow well amdare beatital. though they often shate the road tan
 With trees which sichl profitable rops. In Frathe and dermany for exampe cherry tere aboumel la these emantries the viedid of
 some casts to the commantio. aml thoir product is well gatarded by haw. There will he more or bew exprimentus on the part at the (iommission betore they devike upera the -peces to be phanted. The law provides for the hepinnin! of this work in the apring of 1 s! $\%$ and from that time it will be carricd on Anw! so a- wontan the benetit of experience.
 thinle setted regions of the eonatity, where the people da bot ferd able io umbertake madi, they ath hion better than to start the re-

 intimately connecked with the tacilities for enmmanitation.

## tIE ROYAL CNITED SERVICE INSTITLTHON

The Palace of Whitehall and its grounds, so avorriated with, the namde of English monarche and rulers from the dayy of Hexry VIIIto Caarles II, occupied the district between (harine cro....athl Wentminister, extending from the Thames up into St. Jamess Park. Part wam burned to the gronnd in 16:91 and the remainder in $16: 90^{-}$ The space is now covered with streets. terraces. and public haild The pace is now covered with etrets. ings. The boulevard of the Embank of he havies thonemghtar.... of The ground is intersected by obe of the husist thatomghtion of Lonkon-Whitehall. On the east sidpe of whichath, "plywhe then It wan buitt in tho Pathadian otyle by Isuco Jones in the revisu it Jamas I. The ceiling is embellished with pictures by litars- - the
 Peaceand Plenty, and seenes from the life of ('nambes I. the artint patron. The most striking actual serne in Chantess litic wat there
 windows of the great hall and executed upon a hotiys satton in
 front of royal chapel, and that it remained nutil at tiow month ator


 the 'gervices.". It has a membership of $\mathbf{5} \mathbf{1 6 0 1}$. holds mentins at which papers are read, and publisher a Journal. The andily eaty formed the nuclens of a musenm. The collection wa- umtitiot hatiwretedicdly housed, and admission wav to he hat (wily by ordir from a member. Lately, by arrangement. government hia ma...
 over to it the banqueting hall offees and at apowhind inthry the theat fo have been added. The musene mos int arciting collowtionin London. Admission is at a triflus fixed charge-…oldier athi saiors in uniform free." Old flam wase from the sallery. The wallare covered with the weapons of all times and of all coontricThe progress of the musket can be stulied from the $\cdot$ Brown Be... to the magazine rifles now adopled by different States. Cannon are there from the rudest of old times and of half-civilized powpen wh the most deadly quick-firing ordnance. The uninitiated may learn tu. realize the difference between "ordinary," ."smokelens." and ".opdit. realize the difference between ammanition of the time of the Crimean Wowders. The weapons and ammuniton of the time of almost playthings lefore present applater. Lars. War appear almost playthings herore present matiay pirate ath tha. ships of the time of James I and the Hanseatic League. to the ereat threedeckers tof the Napoleonic Wiars and the devinetis. 27 know torpedoes of the present. Fverything connected with molern war. fare is expensive-these models even must hase cont large sums. Perhapa one fourth of the 6,000 kquare feet of the sreat hall is ..... cupied by "models" of the battle of Trafilgar ami a plan of the field of Waterloo. This latter is said to contain 1 ? 10,0101 litth. figures. A passing atudy of these will tend to a clearer conception

 abla drases ham beon taken in a mat watare


 Fombal. How the pars and the prewh are bousht thesther.)

























 lowne: map arrion he diompal Pows and atamath with hio






 medal samed ley an at whal in las. takell with him, then at


 (ampaign and with the cher renurtins latian wat of the pand ext tury- - The Sitt..."

## BOOK NOTICES AND EXCHANGES.

The First Napoleon. By Johin Codman Ropes. Houghton, Mithin \& Co. 1845.
We have here the twelfth edition of the series of lecgures which wereffrst collected and publishod ten years ago.

The history of Napoleon haf often been writen by his fricmis and by his enemies. National political or persomal embls have in many ways shaped the conflicsing acconnts of the times. There writers of each nationality have pongrlt to elevate the work of their own heroes by belittling that of their enemies. Even Frenthmen have been dirided between the wish of some to bonter up the Morne of' Bourbon by destroying the leqend of Napoleonic solory, and the dosire of others to keep the patatictalo about his name. Those who were actors in the great evfots deserfet have usually deroted themselves to the task of saving fheir ow oreputations at the expelise of all othere. All this was to he expected, and perhap- it is fill time for an historian to appeaf who is able to speat of Sapoleon. not entirely as a spirit of health and mercy, nor yet as a "coblin clamned." Mr. Ropes in well fithed for this task, and runs down hiv facta with atrict impartiality and logical severity.

We are not permitted to forget many things connected with great names which we might be willing to pass by. For instance: in sitting in judgment upon Napoleonis course toward the buc di Engtien, what right of argument has the nation which subsidized the assassins of 1804 , and gave them transportation on her wat ships? Can it be forgotten that the hero of Trafalgar violated the terms of the capitulation of the Neapolitan prisoners in 179 s , and had Admiral Caraceioli hangel at the yardarm of an Emglivh frigate? Did not Wellington stand still and see with ithdifference the kerms of a military conrention, to which he was one of the pringipal parties, violated in the trial and exqeution of Ney? Evellt. in the career of Blucher, Yorck and Sehwartzenberg, aloso show that excellent soldiers are often very mean men, and that Napoleoni, acts and aims were as high and good as any. The genius ot Xitpoleqn to be sure had many limitations, as shown in his numerous
 in hiv reckle.. entithene in war


 is takcon to cortet miniaken at timmer titions of the beturen relat




 tary hivory sedme at first like the phay of . hathiel in the limis



 liberal ruler, a dhampion of the righte of man

To make thik plain the -tate of Eurup is sketehed at the time of the French Rewhlution. A eorrupt mothlity and a hisented wrey had hrought the midnle and lower claves to a condition of persery and mincule (ivil or religiou-liberty and "pality betore the law. were not known. The Resolution was the protest agathet ail this It came in sucha a terrible torm. like all resolutions. and it commithen such erimes in the name of trestom, that ts true efert is ofter ther totten. The pople were not tit towern themelvere and ther save power to men frow were themselve the fiorcest and bhention of grants. At the bottom of it all lay the tact that humanity was blindly seeking for more literal law ereatur libery of artion and lens burdenvenk exaction- from the privileged clanco. Napmen was the logicaliresult of thim demath and of thin state of reaction
 government. Wha ade of aw- more hheral than any under which the word had ret lived. Sut only was thin the fown result for
 of liberty and quality among people where the principhes were unknow befone. The benefit- of his ande. the publicity of hasal poocedure. the brablishment of the jury sotem, were the ehamater.
 "Be a constitutional kiner" he tell. Jerome in hamding him the Kingdom of Westphatia.

Thus the fandamental principle of the sobeme of univeral em. pire was different from what is a-wally -upposed. and it was lut merely a soldicts ambition that carried his armies from Madrid to Moscow. His ifea was to foand an empire based on the princighe of the equal righte of all men. and extented by toree of arme 1 . carrying sat has plans. the mortal conqueror almont wathed the limits of that empire which was tombled eighteen humdred yatrs hefore upon the entirely different phan of morality and brotherly bove. It way agreat idea and often semed likely bo sucted

This book eontains a series of eritioal sketehes published by the Military Historieal Socioty of Massathasetts

1. "Gemeral Beanurequal." by John (. Ropes. Eia
"Gencral Grant." by Colomel Theorome A. Iman
"Gencral Mancock." hy fiencral framein . N. Walker
"Gemeral Hamphrer-" by Givneral Jamen II. Wilan

" General Sherman." bydohn (. Ripere Forl.

"General Tlomats." by Riloned Ifenry Stone
"General Thuman in thu Renond." I.v Colomel Thoman 1. Livermor
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## JOURNAL

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> MAJOR-GENERAL JOHN BUFORD.*

By Majorgeverai. James h. Wilson, C.S. V., Brevet Mabhegeneralíg.S. a.

0N this historic field thirty-two years ago to day the crimson tide of the gr\&at Rebellion reached its topmost mark. A little over a mile from this very spot it broke, forever in the East, as it did at the same time on the far-away bank of the Mississippi, forever in the West. The boiling and seething flood, lashed to fury by sectional interest and sectional hate, could not be calmed at once. Fiercely, but with diminishing force, it rolled on for nearly two years more, but after the double victories of Gettysburg and Vicksburg the end was never doubtful to the hopeful heart of the patriot. Peace, the white-winged messenger of God, showed clear and bright her benign face thenceforth, even through the rifts and smoke of battle that hung over the tangled thickets of the Wilderness and the blood-stained slopes of Chickamauga and northern Georgia.

The bistorian's glowing page tells of the hurrying marches and deadly battles throughout the widely extended field of war, in which the cause of slavery and of rebellion went down forever

- Oration delivered at Gettysburg on July 1,1895 , when the Buford Memorial was dedicated.
before the loyal hosts of the National Union. They need no recital from us. We are met to-day, hot to recount these thrilling chapters of the nation's history, nor yed to describe the incidents of the great battle which took place bere. The pathetic and imperishable monuments which mark every feature of this lovely landscape, as well as every advanced position of eifher side in that sanguinary struggle, will hand down to remotest ages the unrivaled story of American valor and American patriotisi.

Our task is rather to commemorate by this simple monument and effigy. of bronze, and by these guns which opened the action at this spot, the virtues and seryfices of the great soldier and honest, logal gentleman, whose fortunate lot it was to select this field, and decide that bere the battle should be fought, here that the great issue whould be tried to the end between the Federal and Coofederate hosts.

The statue of bronze and ponument of granite which we here dedicate, are reared by loving hands to the ever sacred memors of Major-General Join Bupord, and they too will tell their eloquent story of loyalty and duty to unending generations of patriotic youth. This living bronze speaks to us in the language of the selfcontained and conrageous soldier, whose calm and dignified person, whose lofty and confident bearing it so imptessively brings back to the minds of his comrades gatiered here to honor him. Happy and fortunate soldier thus to be hopored - thas to be certified throughout all time to his countrymen !
It was not my good fortune to serve under this modest hero. My acquaintance with him was but slight. Indeed, I never met him except in the Antietam camplign, but I vividly recall, through the vista of a third of a century, his erect and manly figure, his bronzed and reassuring face, bis flashing eyes, and above all, his calm selfpossessed and confident demeanor. He was, at that time, in the very prime of both mind and body, and seemed to all who knew bim then to be an ideal soldier and leader, and may we not say without bnastful discrimination or injustice to the gallant volunteer, that the ideal soldier and leader of that day and epoch was the well educated, experienced and conscientious West Point graduate who had been ripened and matured by frontier service in the regular army? Surely, up to that time, the world offered no better school, and right anccebsfully had it fasbioned Bupord and Stanley and Grega, and Sheridan and Thomas, and Stuart and Van Dorn and Hardee, and even Jobnston and Lee of the cavalrs, as well as a host of others of the infantry and artillery.

But something more than West Point and frontier service were needed to produce a Burord. He was "no sapling chance-sown by the fountain." He had had years of training and experience in his profession, and although they were precious and indispensable, they could not have produced the results which were realized in him, had it not been for the honorable deeds of his ancestors and the bereditary traits developed and transmitted by them. Such men as BuFord are not the fruit of chance. Springing, as he did, from a sturdy Anglo-Norman family long settled in the "debatable land" on the borders of England and Scotland, he came by the virtues of the strong hand tbrough inheritance. His kinsmen. as far back as they can be traced, were stout soldiers, rougb fighters and hard riders, accustomed to lives of vicissitude, and holding what they had under the good old rule, the simple plan: "Those to take who bave the power, and tbose to keep who can." Men of his name were the counsellors and companions of kings, and gained renown in the War of the Roses, and in the struggle for dominion over France. In the wars between the Stuarts and the Commonwealth they were "king's men."

The founder of the family in America was, as usual, a younger son who settled in Culpeper county about 1675 , ard became the progenitor of all the Brfords in Virginia, Kentucky, Carolina and Tennessee. Belonging by right to the gentry of the day, they became prominent men and leaders of the people in all that pertained to the public defense. Whether the name was originally "Beacford" or "Beac-port," it was pronounced Buford; but when tronble began to show itself with the mother country, tradition has it that a family council resolved to spell it thenceforth as it wan pronounced. The first settler's name was Thomas Buford, and tradition again has it that he invested most of his capital in horseflesh, and his descendants in all the generations have been noted for their fondness for the turf. Branches of the family appeared, in due time, in Bedford and Mecklenburg counties, and their names are found on all th muster rolls of the times. Captain Thomas Buford, of Bedford, commanded a company of Fincaatle men in Lord Dremore's war with the Indians, and was killed at the battle of the Greal Kanawha in 1774. Abrahay Buford, of Culpeper, was a liegtenant in the same regiment, and John Brford, a younger brother of the captain, was a non-commissioned officer. The lieutenant became a captain of minute men in 1775, and rose to the colonelcy of the Eighth Virginia, Continental line. He it was who commanded the battalion of raw levies in Green's Southern cam-
paign, which, in its retreat towards Virginiar. was orertaken at Waxhaw Creek by Tarleton and almost annibilated.

The Buronds, like most of the patriotic: Virginians. suffered heavily from the rarages and sacrifices of the Recolution, and sought to mend their fortunes by emigrating to Kentucky. Abra. ham, Simeon and John, and perhaps others of the mame. settled in Woodford county in 1790. They intermarried with the MeDowelis. Dokes, Adirrs, and other leading families, and multiplied rapidly. Simeons som John became known as Colonel Johy Brford. and was an influential citizen of Kentucky and lllinois. He was twice mar. ried. By his first wife he had a son who graduated at West Point in 1827, and after a successful career as a manufacturer abd banker. became distinguished in the War of the Rebellion as Napoleos B. Buford. This gentleman was famous as a scholar and philosopher. and enjoyed the respect of all who knew him.

Colonel Joun Buford's secopd wife was the daughter of Captain Edfard Howe, who served under Harry Lee in the famous "Light Horse Legion." She was the mother of Johy Brford. Ja.. as he. wa* known till after the death of his father.

Thus it will be seen that the distinguished spldier whose serrices and rirtues we commemorate here to day, cones of a race of gentlemen who, in the lofty language imputed to a kinsman. were accustomed 4 for yield their persons willingly unto death to do their country good." Shakespearerpleaks of one of the name who may hade also been a kinsman, "asanother goodly thast," in England" ship of state. They were forward and resolule men of actionrarely ever professional men or statesmen. They were not in ans: way, nor in any former generation, brilliant people, but had strong practical sepse and hardy constitutions. They vere honest, straight. forward, coprageous, and had a strong tendency to arms. They were publictspirited citizens, diping their part boldly, and always in the vanguand of the race to which they belonged; and whetber as Scotch bordermen, Colonial rebels, Indian fighters, king's men. or regular armis men, standing up stoutly for their opinions, and doing what they couceived to be their duty to themselres and to their countrymen wherever it might take them. But strong and couragoous and generous as they were through many generations, the very flower and jewel of their family was the knightly gentleman in phose napoe we are gathered here to-day.

Appointed to West Point from Illinois in 1844, he was graduated in 1848, too qute for the Mexican War, but with the instinct of his family, be aqked for and obtained assignment ta the dragoons. His ?
first serrice was at Jefferson Barracks, whence, after a short time, he was sent to the Western frontier. Kansis. New Mexico, Texas, Nebraska and Ctah became in turn the acehe of his youthful labors and activities. Those border regions were' at that time iufested by Indians, who harried the settlements and kept the widely seattered detachments of regulars constantly on the alert and constantly employed. Brford, being of a serious turn of mind, and at all times conscientious and thorough in his work. soon attracted the attention of his superiors, and in due course was appointed regimental quartermaster of the second Dragoons. From the start a good duty officer, be speedily became known as an equally good quartermaster, and as such learned many of the legsons most useful to a general. He served under harney, the greatest Indian tighter of his day, in the campaign of 1855 against the Sioux, and received bigh praise for his conduct both on the march and in the battle of Bluewater. Isater, he took part in the Ctah expodition. and won the friendship and commendation of Albert Sidsby Johsston and of P. St. Georae Conke, as a "mont etticient and excellent ofticer." After returniog from ltah, he was on duty in Washington till he received his commission of captain in the Second Dragoons, when he was sent to Oregon with a detachment of recruits. Rejoining his company at Fort Crittenden, Ctah, he remained with it till early in 1861, when he was appointed major and assistant inspector general and ordered again to Washington.

This appointment set the seal of the highest official approval upon his character ayd soldierly attainments. It certified to the army and to the country aljke that be was one of the best officern at that time under the flag. Assigned to duty in the defenses of Washington, within four months he was appointed brigadiergeneral of volunteers, and as such was sent July 27, 1862, to act as chief of cavalty of Banks' corps. Without delay he took pernonal command of a brigade composed of four regiments. the First Michigan, Fith New York, First Vermont and First Went Virginia Cavalry, and at once threw them againat the enemy. He played a conspicuous part with his small but gallant force, and received a wound at the battle of Manasmas in Pope's ill-starred campaign.

He was at that time ripe for the gallant and honorable career before him, and hastened back to the field as soon as his wound would permit. A distinguished officer of the same arm of the serrice, now the President of this Association, said of him that as a captain of dragoons "be was considered," in a regiment famed for its dashing and accomplished officers, "as the soldier par excellence."

He adds, in loving admirátion, that "no man coald be more popular or thecerely beloved by his fellow officers, nor could any officer be more thoroughly respected and admired by hid men than he was. His company had no superior (in the service." The same distingaiebed officer, writing after hife career had clpsed in death, says: "He was a splendid cavalry officer, and one of the most successtul in the service; was modest, yef brave; unostentatious, but prompt and persevering; ever ready to go where duty called him, and never shrinking from action however fraught with peril." And these are the elements of true $\begin{gathered}\text { reatness. }\end{gathered}$

It is impossible, within the himits appropriate to this occasion, to recount the many details of Burord's splendid but brief career as a brigade and division commander. He took a conspicuous part in the campaigns of Northern írginia, Antietam, Chancellorsville, Fredericksbarg and Gettysbur , participating constantly in raids, skirmishes and battles; and eyerywhere and at all times bearing himself with perfect gallantry, and leading his followers with skill and prudence throagh every peril which beset them. He gave hearty and ungrádging support|to Popi, no less iban to McCleflean, Bupmside, Hooker and Meadz He joined nol cabals, uttered no seditious words, and wrote no opmplaining letters, but bonestly and loyally, with unshaken confidehee and a stout beart, as a good soldier ought, opbore the flag, no always to victory it must be confessed, bat etverywhere with skill and credit. It was his misfortune that the day had not come for the best use of cavalry in close cooperation with infantry, but so far as lay within his discretion, it is plainly discernible that be believed in masses, organization and mutual support, and bad no prejudices in favor of fighing with the saber, or against figbting diamopnted when the circumstances of the case called for or seemed to justify it. He was a true dragoon, as well as a trite cavalier, and had he lired till the end of the war could not have failed to reach the bighest command in that brunch of the service.

After serving with credit, thpugh without any great feat of arms, as McClellid's cbief of cavalry; in the Antietam campaign, he was selected to command the Reserve Brigade, composed of four regiments of regulars and one of volunteer cavalry in the first system. atic organization of the cavalry corps in the Anpy of the Potomar, and rendered gallant service at:' the battle of Fredericksburg and in Stoneman's raid. He succeeded shortly to the command of the First Division, and bore himself aplendidly in the brilliant but some-
what desultory and disjointed cavalry battles on June 9. 1863, with Stuart's cavalry about Brandy Station.

From that time forth, till the end of the Gettysburg campaign, he kept close watch, in conjunction with Grego's division. on Lee's northward march. In the splendid combats at Aldie. Middleburg, and Cpperville, in which he took a leading part, the Federal cavalry for the first time gained a substantial victory over Stiart and drove bim back into the defile at Thoroughfare Gap. Crossing tue Potomac at Edward's ferry behind the infantry, Burond pressed rapidly to the front through Frederick and Boonsborougb into Pennsylvania and the Cumberland Valley near Waynesborongh, and thence through the defile at Monterey to Fountaindale and Fairfield where, on the 29 th of June, he overtook the enemy's infantry, with which he skirmished heavily, but needing artillery for effective work, and get fearing that its use would cause a premature concentration of the enems, he turned east towards Emmittsburg, where he met Reynolds with the First Corpa. Pansing only long enough to tell his story, be adranced rapidy along the turnpike northeastwardly to Gettysburg, which placed he reached at 2 p. m: on the 30th of June. He expected to meet here Kilpatrick, who had nucceeded to the command of Stanel's division, but instead found the town occupied by a small detachment of rebels, which he promptly drove out. He learned at once that Early of Ewell's corps had passed through towards York on the 36 th . From the reports of his scouting parties which he kepl out constantly, and from such scanty information as be could gather from the badly denaralized citizens, he became satisfied late that night that Hili's corps of the invading army had reached Cashtown, only nine miles to the westward, and had pushed an advanced force of infantry aud artillery to within four miles of Gettysburg. Meanwhile, it must not be forgotten that his own command was badly fagged out. He had been constantly on the more from the 9 th of June; his horses had had but little grain, and were beginning to need shoeing badly. The trains and regular supplies were far in the rear. and as the day had bardly come for living off of the country, especially our own country. the subsistence of the command was precarious, and the tendency to straggling almost irresistible. It was an anxious afternoon and a busy night for him and his brigade commanders. A hasty examination of the country about Gettysburg convinced bim that its commanding features no less than the admirable system of bighways radiating from it in all directions. would make it a strategic point of extraordinary value to the C nionarmy. He saw at once that it
must be occupied as well for fighting, if that should be decided upon. as for obtaining information of the enemy's morements. Having segnt out additional scouting parties during thà night, and strongly picketed the roads towards Chambersburg, Minmasburg, carlisle. Harrisburg, York and Hanover, he had by daylight ganed positive information of the enemy's position and movements, and in his own graphic language had "completed his arrangements for entertaining him" until Reynords, wholiad camped only fire miles south of him. could reach the scene with the First and Eleventh Corpes

Merritt, with the Reserve. Brigade, having been detached by orders from General Pleasaston, commanding the corps, the day before, Buford's force cousisted of Gambiess and Devin's brigades only, in all eight regiments of 4,200 nien, with Calef's battery of borse artillery, which he posted as theygebouched through the town on suitable ground commanding the roads to the west and north, so thes could support the pickets and promptly deploy for battle. Burpro himself encamped in the town and it is now perfectly certain that he $k$ new and declared that night that the battle between Lee and Meade would be fought at Gettysburg. and that it would be q desperate one. On this important question the tertimony of his signal officer is conclusive. Having been personally present, he makes the following explicit report ht what occurred on the night of June 30th: "General Brford spent some hours with - Colonel Tox Devin, and while commenting upon the information brought in by Devin's scouts, remarked -'That the battle would be fought at that point, and that be was sure it would be commenced in the morning pefore the infantry would get up. These were his own words. Deven did not share in this belief, and replied, 'That he would take care of all that would attack his front during the ensuing twenty-four hours.' BuFord answered, 'Np. you won't; they will attack you in the morning, and will come booming-skirmishers three deep. You will have to fight like the derif to hold your own until support arrive. The enemy must know the importance of this position, and will strain every nerve to secure it; and if we are able to bold it, we will do well.' Upon returnitg to our beadquarters be ordered me to seek out the most prominent point and watch everything; to be careful to look out for camp fires, and in the morning for dost. He seemed anxious, more so than I ever saw him."

This same pfficer, who early In the morning of July 1st had taken bis station in the cupola of the Theological Seminary, being the mont eligible point of observation on the field, says: "The engagement wis deaperate, as we were opposed to the whole front of Hill's
corps. We held them in theck fully two hours amb were nearly overpowered when in looking about the country. I sat the corps flag of General Rersodds I was still in the seminary stepple but being the only signal offeer with the caralre. I hat un whe to com municate with, so I sent one of my men to Bryond. Who came up and looking throngh $m$ y gan confirmed my report. and remarked - Now we can hold the place tieneral hersons and staff came up on a gallop in advance of the corps, when I made the following communication: Reyshas himself will he here in tive minutes: his corps is about a mile behind. Breord returned to my station. and watched anxiously through my signal telescope. When Ressonis came up, seeing Brand it the cupolas. he cried out. What: the matter. Joun.' The devil's to pay. said Brpord upon reaching the ground. Reynords said. I hope you can bold out until my corps comes up. I reckon I can. was the characteristic reply. The two officers then rode rapidly to the fromt

But to return to the regular sequence of events. Barly on the morning of July list not later than if oflock. Gambies picket-on the Cashown or Chambershorg road were driven in from their advanced posts beyond Willoughby Run. Brgord, who was on the alert, and wak promptly intormed at once ortered Gamble to sulport his pichets with his bigrade and if possible, drise the enemy back. The latter having afready taken up a strong position on Seminary Ridge, overlooking the rum and its valley. at the word mored proudly formard to theet the enemy. Calefs battery was called from alie pojnt near to where it hand birnuacked. and placed in position on the Chambersburg Road by Brord himeelf. Devix's brigade was thrown forward on the rishato at to cover the space from Ganble sight on the rilroad cut around to the Mummasburg Road. The object being to bohd the adrancing rebels back and to keep them oht of Gettysburs as long as posible, or till the infantry could reach and occupy the ground, the gallant troopers dismounted and moved frward like infatrymen. The whole country between Willoughby Run and Rock Oreek was covered by a well-posted line of pickets apd skirmishers, so that no hostife force could possibly approach the town until that line was broken or driven back. Surfrise wus from the first impossible, and it was now merely a ques tion of numbers and endurance. As bas been shown. Brapd, with unerring instinct, had perceived that Seminary Ridge running north and south to the west of the town must be held till Meade's army could reach Gettysburg and take position on the dominating ground south of it. He entertained no illusion of any kind; he liked cav.
alry work, both mounted and dismounted, and had thoroughly enjoyed the brilliant saccesses he had gained at Brahdy Station, and especially had he delighted in the rapid succession of charge and counter charge at Aldie, Middleburg and Upperiville, by which Stuart had been beaten and jammed back into Thoroughfare Gap. We may be sure he would have liked nothing better than to try it over again with his gallant antagonist, bad the latter been there, but inasmuch as it was cortain that Hinl's veteran infantry "with their tattered uniforms and bright bayonets," was before him, and must soon be joined by Ewell with Stonewall Jackson's men, he knew that there would be bloody work that day, and that it would be all the better for him and his gallant division if he could convince the enemy that they were fighting infantry instead of cavalry For this reason, if no other, the cavalrymen were dismounted, and we may be sute did not disdain to avail themselres of any cover they could find. The horses were sent to the rear, or concealed, and the skirmish lines were long enough and dense enougb to create the impression that they were backed up by a heaty force.

Gamble, upon whose front the main attack tell; made a resolute advance, and after a severe struggle, in which be was effectively aided by Calef's well directed gans, drove the enemy across Wil. loughby Run; but the success was temporary. Gathering strength from the different divisions as they approached the field, the rebels in turn forced Gamble slowly back. By 10:10 Burord reported that Hill was driving his cavalry pickets and skirmishers in upon the main body of bis command. Although Reynolds' leading division had moved at 8 o'clock from his camp on Marsh Creek, five miles from Gettysburg, it did not reach the field till a little after 10 A. M. Reynolos himself waiting for his column, reached the fighting line at 10 , and going at once to the front, was shot through the head at $\mathbf{1 0 : 1 5}$. He was succeeded in command of the First and Eleventh Corps by Howard. On taking cbmmand of the two corpe Reynolds turned over the First to Doublenay. Wadswortif commanded the leading division, and it was this gallant gentleman who brought the first iafantry troops into the field, and with them took the place of the hard pressed cavalry.

Time will not permit me to give the details of the bloody battle which followed that afternoon on Oak and Seminary Ridges. Nor is it neqcessary. The infantry arrived not a mintte too soon. The cavalry had performed prodigies of valor, and against overwhelming odds had held the field for over four hours agaipst the increasing pressure from Lez's veterans. If there are any here to-day who
participated with the Third Caralry Division in the part it took a year later at the crossing of the Opequon and in the battle of Winchester under similar circumstances, they at least will know what? Gamble and Devin went through with, and what anxieties the gallant Berord suffered while waiting for Reynolds and Howard to come to their relief. They had gone-into action cheerfully and willingly in the morning, and with varying fortunes had done their best for four long hours. Reliesed at first by Wadsworta's infantry, they had a slight, but welcome respite from the desperate struggle; but the infantry was. in turn, orerborne and dricen back and had to call lustily for the support of the cavalry. Brford, in person, rushed Gamble promptly and vigorously to the left front to a strong position covered by a fence, under the shelter of which they broke the enemy's adrancing line and compelled it to fall back upon its supports. The arrival of other divisions of the First Corps ultimately atrengthened the Federal position. so that the caralry could be withdrawn, first to the extreme left, of the advanced line, and then to Cemetery Hill, where it was held to cover the formation of the new and final line of battle extending from that place along the ridge towards the Roundtops and Deril's Den.

Buford had done his self-allotted task successfully and wellbetter, indeed, than anyone but himself then knew. Speaking many years afterwards of the part taken in this great day's work by Brfords caralry, General francis A. Waleker, in the "History of the Second Army Corps." uses the following language: "On the left the remnants of the shattered First Corps were forming along Cemetery Ridge under cover of Brford's brigades of cavalry, (Gamble's brigade ouly), which, drawn up in a line of battalions in mass, stood as steady as if on parade." This was, as near as can be fixed, at half past threeon July 1 nt , and after their bloody and prolonged work against the Contederate infantry, was as high a com. pliment as could be paid to the cavalry, but it was not all. The author, himself a splendid soldier. adds: "When last it was my prisilege to see General Hancock. in November, 1885, he pointed out to me from Cemetery Hill the position occupied by Brford at this critical juncture, and assured me that anghig the most inspiring sights of bis military career was the aplangra spectacle of that gal. lant cavalry as it stood there unshaken and undaunted in the face of the advancing Confederate infantry." No higher commendation for the cavalry can be found. Its services have generally been minimized, if not entirely ignored, by popular historians, but no competent critic can read the official reporta or the Comte de Paris'
"History of the Civil War in America" without giving the caralry the bighest praise for fits work on this day, and throughout this campaign. "To Beford was assigned the post of danger and responsibility. He, and be alone, selected the gtound," says that trustworthy historian, 4 upon which unforseen cifcumstances were abont to bring the two armies into bostile contact. Neither Meade nor Lee bad any personal knowledge of it. * * | * Bcrord, who. when he arrited on the evening of the 30 th . had guessed at one glance the adrantage to be delfived from these positions, did not have time to give a description of them to Meade and receive his instructions. The anfailing indications to an officer of so much experience, howerer, revealed to Bcford the approach of the enemy. K nowing that Reynolds was within supporting dfstance ot him. he boldly resolved to risk everything in order to allow the latter time to reach Getlysburg in adrance of the Confederate army. Thifirst inspiration of a cavalry offeer and a true boldier decided in every respect the fate of the canpaign. It was Byford who selected the battlefield where the two armies were about to measure their strength."

There is but little left to say. Brford hating selected and held the battlefield, and successfully corered the forfation ot the line on the ridges against which Lex's veteran corpstrought themselves to a frazze in the two days bloody conflict which followed. camped that night on the extreme left, and picketed the country well ont towards Fairfield. The next day, after being entgaged with sharpshooters, he was reliered by Sickel's corps, and permitted to withdraw by the left and rear as far as Taneytown, and on the 3d to Westminster to rest and refit, and possibly to be ready to cover a retrograde movement of the arms in that direction if hapiy such a movement should become necessary.

As soon as it was known that the enemy had begun his retreat to Virginia, Buford took part with Grege and Filpatrick in pursuing bim by Frederick and Williamsport through Warrenton and Culpeper to the south side of the Rapidan. Hiq last action was at Bristow Station on October 14th. The hard and constant work be had done, bad begun to tell upon his constitution. Weakened by his wound be fell sick, and in November was permitted to retarn to Washington for better treatment than could be given to "him in the field. But there he gradually grew worse, and on the 16th of December, 1863, the very day upon which President Lincols had signed and sent him his commission as Majpr-General his eyes were closed forever in death. And here it is proper to remark that
no general who was killed in hattle, or died from natural cause during the war. was nore protondly regretted by his companions, or by the government and loyal preple. than Jons Buford. Like Reynolds. MePherson and Sediwick, be had reached the prime of his powers and his rirtues, and having been tried as by tire he was beliered to be worthy of the highest command and responsibilities. What would have been the career of this modest genteman and true soldier had he been spared to the end of the great war, must forever remain a mater of conjecture: bat unless all signs fail, he must have gone on in success and bonors, and reached the highest round of fame. We know from experience that -
"There is a history in all men's lives.
The which observed a man may prophesy,
With a near aim of the main chance .if things.
As yet not come to pass."
May we not from the facts related prophesy with a near aim. that this good soldiers future. hat he lived, would have been still more brilliant and succesful? His work from his tiest entry into the military service as we have seen. was of the highest quality. It had won for him gencral recogntion as the best cavalry leader yet developed in the Army of the Potomace finally, it must be conceded that his selection of the batliefield of Getty burg and his retention of it against overwhelaning odds. arere services of the tirst magnitude, and indicate clearly that he possessed the highest attributes of generalship. They fully justify the modest claim made in his official report for himself and his gallant followers: "A heary task was before us. We were equal to $t$, and shall all remember that at Gettysurg we did our country much service."

And surely our country will remember it also. In the words of the immortal Liscols: - It can never forget what they did here. Having dedicated this monument with all the solemnity we could five to the occasion: having refreshed here our patriotism and consecrated ourselves anew to the Cnion, one and indivisible, let us again, in the words and spirit of the martyred President, "Here highly resolve that these dead shall not hare died in rain; that this nation shall hase a new birth of treedom: and that government of the people by the people. for the people, shall not perish from the earth.


Officers learned their duties in their regiments under the meatorship of some grizzled sergeant; recruits learned theire in the rear rank, in lockstep with a front rank file to whom it was all an old story. All this is changed, and thourh our frontier work in past years has enabled us to lag behind and mont protitably. we must now change wur system to meet new condition-

Let us first examine the iraining a recruit receires in his own troop. The men arrive in small numbers, often singly: they are put in charge of some non-commissioned officer to be drilled into shape. The sergeant will usually bave no particular love for the minutise of recruit drill: he will, if be does his duty. be working hard with his men from morning until night, while the other noncommissioned offeers about him are taking it easy in the interrals of ordinary garrison routine Small wonder then, if he puts bis squad throagh their work as superficially as possible. and reports them ready for the troop. with oby a lick and a promise of their proper training

The troop wants the men to help out with the guard duty, to ease $u p$ on the stable and kitchen police to fill out the fatigue details. The first sergeant wants Recruit Jones as troop clerk: the captait needs Brown, who is a tinner, to make some things for the tronp; the quartermaster would like Robinoon an a carpenter, and the adjutant must hare Solomos Levi to learn the cornet in the band. Fecerytbing thus conspires to the prejudice of the recruits prelimirary training; he can execute fours right and lef with the troop, can march in review, and ride a horse with more or lese injury to the animal, though the mount tirst assigned him has probably had all his fine points and feelings blunted long ago.

The lack of proper grounding will, however. show in the end: firm. by contrast with the old soldier, and finally. as the troop fille with men of the new regime, the contrast will disappear, but the esprit and tone of the whole organization will assimilate itrelf to the recruit standard.

The recruit in a troop labors under many disadrantages. His work is necessarily hard and continuqus, it we are going to condense his preliminary training into a periof of six weeks or two months, as will be neceswary.

So man likes to admit that he is unable to bear the strain to which all about him are equally subjected; but a very little work will make him grumble when intimately thrown with comrades who bare some leisure, ever, though this leisure be gained at the expense of greater exertion or responsibility. The two or three men drilling
with him are lost sight of in the troop when the squad is dismissed, and his first assoclates will be usually those men who are most idle, easily familiar, and least likely to give him proper deas. Again, ;he misses the great advantage of gompetition and mulation; his progress is not dependent upon his individual aptitude; there are no upper classes for him to pass rapidly through; no afvkward squad to hold him while his fellows pass on. The pace of pis little squad is that of the slowest man; the single instructor cannot push him forward and neglect the others, and even if a corporal is detailed to assist, be cannot teach to one the exfended order mortmenta or even excite the same interest in the orders of the sentinel or in the saluer lexercise that wodid be found in al squad of men each cager to be freported proficient before bis fellows, and to drop the title of "lie. cruity."

How can a drill master exact neatness of person, immaculate arms, equipments, bunks and horses, smartness of bearing and millitary, precision, when his recruits are constantly mingled with other men who, for perfectly good and sufficient reasons, may not be re quired to pay such attention to mere details.

In the field, of wherever there is good reason, we fo not care for rust on a bit, sweat marks on saddlery, or bacon grease on clothins, land the forms of military courtesy are relaxed; butife know that heyery man undedstands that this is a concession to hecessity. We äre for the time being savages struggling with naturd, with her (...ll or heat, her hanger or thirst; her fatigue, or only the loneliness of ber wilderness. If we know that our men have learned how a bit and saddle should be kept; if we know that military deference and spirit is there, then we are willing to dispense with the evidence, fand the training of the recruit should be such as to leare us in 1.0 doubt on these phints.

Recruits of troops at the same post are often consolidated the drill under non-commissioned officers specially detailed, and this method is a step in the right direction, but it does not go har enough. The control of the instrinctor lasts only during drill hour, and at other timos the recruits are acattered to their several trooln, where asually they are ander no ppecial supervision, beld under no stricter discipline, nor sept more basily occupied than the other men. The recruit, in this case, has the advantage of drilling with a larger squad, and probably under a better instrudior than if the selection of the dergeant had been limited to one tfoop. He still, however, is beld to the pace of tho squad and canopt be advanced or retarded according to tis individual aptitude.

The solution of the problem is found in a depot troop, which will have its functions in war as well as in peace, and which, as necessity demands, can be filled and made an effectise troop. or skeletonized to its frame work of officers and non-commissioned officers.

The experiment of spoiling good Indian scouts to make a proor imitation soldier, seems to be dying a most natural and well-merited death; and as the Indian troops ranish in each regiment, it would seem that a trame work might be given for a depot tronp.

Let $\cdot$ If ${ }^{\prime}$ Troop be made a visible skeleton troop, not a nominal skeleton. Gire it its complement of non-commissioned officers, its farrier, blackemith, saddler. trumpeters. tailor and cook: give it back as many horses as may be found necessary f five it station at headquarters or at the mont conrenient post, with other troops ot the regiment, give it the best quarters. the best stablen. the best equipments, and require of it that, in consideration of these adrathtages, derything be kept in perfect condition.

If there is a ridine hall at ally post of the repiment, the defot troop should be there. Its non-commissioned offeers should be picked men, and to secure the most efficient instructors their position could be made desirable by privileges in the was of quarters 1 for some of them, separate roms, and exemption from fatigue and guard. Among the non-commissioned offcers should be an expert horseman, a gymmast and a swordsman. While all of them should be neal and soldierly.

The recruits should be quartered so that there should be at least two squads in separate rooms, men being dintributed as they arrire among the squads, so that each shall have its proportion of the new arrivals. The chiefs of nquad are charged with the interior instruction, barrack discipline, regulations, military courtess, orders of sentinels, care of clothing, arms and equipments. The advantage of haring two or more squads will become evident in the emulation which will develop between the different squads, or ratber squad leaders.

The non-commissioned officer showing the greatest aptitude at mounted work should be kept at that work alone, assisted by as many as may be necessary of the other non-commissioned officers, according to the number of recruits and number of classes. One non-commipsioned officer should be specially detailed as gymnastic instructor, and will find his time fully occupied, with gymnastics and setting up exercises, with the care of the apparatua, and the en.
couragement and direction of sports. He will also usually be the sword-master.

When a recruit arriver the offiker commanding the depot troop bhould see him at once, and. by consersation learn as much as posbible of his bistory and character, making notes dfterwards for future reference and amplification. This preliminary interriew bhould be had before he is taught the stand attention. He will give the most information from a comfot table chair.

The depot troop should have a thoroughly competent tailor, and he should be required to dress the recruit in self respecting shape as boon as possible after arrival. To sase the clothing. mounted drills and gymnastices should be in blue shirts and stabid overalls, the field belt being worn to support the trousers.

The horses shquid be ridden twice daily, morning and afternoon; they will thus learn their work better, and be mote usefill than bouble the number of animals ridden once daily. The recruit should not be pughed too rapidly to actual riding; it is hard to go back from that to the folding of the saddle-blankel, the nomen. plature of parts of the borse, and other details which he eagerly Beizes upon at the very outset. The gymnastic inswructor should work in harmony with the instructor in riding. teaching the mounted exercises on the inexpensive and easily curried wodden horse, df which a number should be axailable.

Much use whold be mude of the horse on the fonge. Halt a dozen men will learn more gymnastics with a steady going animal on the circle thato they wbuld with a horse apiece in double the time. Grooming should be specially taught, and no nan passed out of the grooming dlass until he can take a sweaty, dirt; horse, whisp him dry, aud bring bim to a state of glossy perfection, hand rubbing his legs, and putuing muscle into the brush. Time entough when he has learned this to tell him that grooming may sonfetimes be dispensed with, just as belts and armsmay sometimes be iforn scrat ched and greasy. Affer eversidrill the horses should be immediately groomed. The recruit that hearns to give his first attention, on dismounting, to his borse; and the horse gains in capheity for hard work, in clean legs, fine coat, and if he is black, stays plack the year around. Saddlets is to be cleahed after every drill before the recruit leaves the stable, suitable racks being provided, convenient to water, where the sweat dan be sponged off, the leather well soaped and metal oiled, before the saddles and bridles are put back in the saddle room.

On returning from riding, in warm weather, tho squad should
be marched to the bath rooms and required to bathe before being dinmissed. This not only in the interest of the indiridual, but for the benefit of those who are cumpelled to occupy the same room with him. for whose benefit he will also be required to be clesn in speech.

Stormy weather should not suspend recruit drills. but only modify their character. There is always sonething the recruit can be taughtindors, and his military constitution is not yet sufficiently strong to stand more than one days rest in seven. Lectures take the place of riding if there is no riding hall, the attention being held by requiring the recruits to answer questions in chorns at any moment. As for instance (the instructor touching a horse): "What part is this?" The recruits answer in chorus: "Hock." "Poll," ete. It will also be fonnd useful to have the squads repeat in chorus during rests at drill the orders of sentinels, or matter which they may be required to memorize. The course of instruction should cover the whole of the School of the Trooper, stopping short of the School of the Troop.

The routine of the dayshould comprise one bour or more mounted; one hour gimnastics and setting up; one hoor and twenty minutes foot drill, and manual of carbine, saber and pistol. For one class. the order, might be as follows: Reveille. breakfant, policine quarters, gymastics and setting up for one hour (uniform, stable oreralls, undershirts, barrack shoes), inspection of quarters by troop commander, accompanied by chiefs of squads, recraits atanding at bunks; leisure during guard mounting to allow recruits to witnewa ceremony pad enjoy music; then mounted instruction, (uniform. leggins, operalls, blue shirts, forage caps). one full hour at leant. after which comes morning stables; saddery is put airay clean. horses whisped dry and thoroughly groomed and hand rubbed; this will ofecupy another hour; then dinner, one hours foot drill and manual, (unifbrm, blue shirts and trousers); at retreat twenty minutes fobt drill and manual, in uniform as required for guard mounting at the post, arms and equipment carefully inspected. Evening stables would be attended by the other class which would ride in theafternoon and drill on foot after guard mounting.

Special attention should be paid to neatness at table. the recruits being required to wasb before meals, and wear a specitied dress. The white strble jacket, or the blue shirt, is more economical and cleaner thatn an old blouse. The mess call should be responded to as promply as the call for any duty, and men coming in late should be turded put if unable to give proper explanation.

No recrait should be excused from any drill unless sigh. The stable sorgeant would neod no further aseistance, usually, than could be rendered easily by the farrier, blackamith, saddler and wagoner, who, together with the tailor and trumpeters, would take their tours as kitchen"police. No old soldiers, not requirtd for special duty, should be retained in the depot troop, as the recruit will be better kept with other recruits exclusively until he passes to his own troop.

To sum up: 1 have outlined asstem which concentrates the efforts of a few picked instructors upon the whole confingent of recruite for the regiment, aud which concentrates inte the recruit period muct instriction whicb is now left to be pickell ap later, or not at all. For i\&s full effect, the sanction of the Wat Depariment must be giden, but the plan can ationce be practicully carried out by any pos comminder who can find the space necessury to quarter the recruith separately.

The necessary officer and non-commissioned officert could be detacbed from other troops, together tith a cook, a kitclinen police and a stable orderly.: The Lroops from which these deta 1 ls were made would gain, by hating in their quarters and ranks none but men Who had received thorougla prelimgnary training, by putting in at least eight pours of solid, hard work every day during their stay in the recruit troop. Some recruits, who had bad the edrantage of military association or atbletic training, would pass to duty with their troop, in three weeks, while the slovenly men the dullards and loats, would be leeld threa months if necessary, or discharged.

The Adjutant-General, in a letupr, to the superintendent of recruiting serfice, has said: "If by reason either of temperament or bubits, or of mental, moral or physical deficiency, he (the recruit) be found manifestly unfitted for the iervice, he is to be pecommended fordischarge: * * * The advantages of this dispodition of him are obvious. Tlie government suffers the least possible pecuniary Lows by the enlisting officer's mistike; regiments ate spared the trouble or disgrace resulting from the assignment of ineffective, immoral or discontented persons, and discharges from regiments be. fire expiration of term, always pmoductive of restlessness among the contenfed portion of the rank and file, are reduced to a minimum. * * * It must be remembered that the depots are not disciplinary institutions for loafers, criminals and wortbless men. When a recruit is found it be a dullard, a drone, or a drankard, he is notionly of no:account to the serrice, bat an incubus upon it, to be got rid of by speed discharge on special report."

The War Department has shown perfect willingness to discharge undesirably men upon the recommendation of the commanding officer of the caralry recruiting depot, and it is presamed that it would. in the same way, second the efforts of regimental commanders.

The commander of the depot troop, haring all his eflorts concentrated on one object, and being assisted by non-commissioned officers si中ilarly intent, would bave a better opportusity than the commander of a regular troop. of judging the unfiness of menf for military service, or for the cavalry arm. He would thus be able to rid the serrice within a few weeks of men who otherwise would lower the standard of the regiment, and who while borne on the rolls would never render any resurns to the government for the mones and effort wasted upon them. It cannot be claimed that the recruiting officer bas made no mistakes. yet we at present retain all the men he sends, unless they can be discharged for physical disability, by the action of courts-martial, or of their own motion. by purchase. Cannot every troop commander put his finger upon men of hiis trofp who are dead timber, but whom he cannot get rid of?

To qughe once more from the Adjutant-General's letter: "The principal quactions of recruiting depots are (1) to determine the aptitude of the recruit for military service, and (2) to give him such peeliminany instraction," etc.. etc. We hare been giving him some pretiminaty instraction. hut we have worked up every man regardless of his aptitude and fituess, eren when, without special inrentigation, his want of aptitude or unfitness forced themelres upon our uberfation. Let us then assume all of the functions which, with the mantle of the departed cavalry recruiting depot, have fallen upo our regimental shoulders.
H. A single sick or detached horee will throw this calculation out.
S. Not at all; I simply take an additional blank file.
H. Schmidt does not approve of that.
S. For the groat divisional exercises : and there I concur $x$ ith him. For exercise within the squadron be wishes to have drill in single rank diligently practiced. He wocld not object to a few blank files in that case. I hare another reason, however, why I would not like to form the squadron of serenty horser in three plattoons of eleren tiles. which is the usual formation during winter.
H. What is your reason?
S. I would be limited to the six flank non-commissioned officer. besides depriving the remaining nine non-commissioned officers of their horses. My desire is to give to the squadron that formation in which it would bare to take the tield, and there each of the fifteen non-commissioned officers must have his horse, which, moreover, be should ride throughout the winter. Hence it would be rarely that lacould turn out with the squadron formed in three plathons to gotirough some drill movements: I would form it detinitely in two platoons in double rank, or in four platoons in single rank. I hare enough horses for that purpose. though some nay bara to be deducted on account of detached service or sickness, for after allow. ing for fifteen non-commissioned officers horses and four trumpeters horses there remain fift-one horses for the other riders.
H. The ides of forming the rquadron in four platoons in single rank is an excellent one. It would enable us to have drill in single rank during the winter as advocated by Schmidt, without lowing thereby much of the time allotted to drill. Would you not rather form the squadron in single rank anyway until the recruits join it, who then might ride in the rear rank?
S. That sounds very pretty, but is impracticable. because for orderly drill we need other riders in the rear rank also. apecially for the guide file of each platoon. Furthermore, if the troop rides in single rank for six months, the men will lose eye for, and practice in, the observance of distances in wheeling by platoons.
H. Because there is no rear rank; that is true. It did not oceur to me. I suppose you also agree that the platoons should not be less than eleven files on account of the distance.
S. Theoretically drill with ten files per plation is impracticable, because in that case (including chief of plation and his distance) there would be grenter depth than front: in practice, howerer. it is otherwise. It is practicable with ten files. Let us, however.take
eleven files as a basis. I for one would rather drill with eleren than with ten files.
H. How will you get the riders for the fifty one horses with which you are going to drill during the winter?
S. We have 133 men in the squadron, from which are to be de. ducted fifteen non-commissioned pfficers, four trumpeters, eight men on an average detached from the regiment, four officers' serrants, two per cent. sick, i. e., one or two men; five men for guard, kitcben or other interior service, lastly thirty-nine recruitis; total seventyseren men, which leaves as fifty:six.
H. Then you have fire men more in the squadron than horses, and you eannot have erery man ride every day. That has its dis. advantages. It will not be pospible to have every remount rider ride daily an old horse in addition to the remount.
S. I shall take good care not to let the select; best riders forget how to ride a trained horse. Other losses must alko be considered. There are the tradesmen of the squadron who do not ride ererg day, also men detailed, away frpm the regiment, as for instance "ordnances du jour" (daily messonger details), etc., and lastly, I prefer to have the worst riders change off and not ride every day, than to let the best riders get ruaf 5 .
H. These best riders are kep in practice by their remounts,
S. They might rery easily a qquire a faulty seat, and particu larly so if serving in the second year, need daily practice on a trained borse to confirm the cordect rider feeling. Some old, firm, excellent riders (non-commissioned officers) who, on account of their reputation, have an opportunity to ride officers' horses within and without the regiment, are the only ones whon I might excuse from riding each day on old borsids in addition to the remount, if I have not enough horses.
H. In the number of horses fou have not allowed for the sick, though you have in the number of men.
S. Because the sick horse wodeld balance the sick man, but not the reverse. The whole calculatipn, however, is an approximation, and sabject to many variations. For instance, when the number of recruits and remount riders is sthaller, so that some of the latter have to ride two borses daily, then I need fewer old borses for the remount riders and recruits.
H. Very well. Let us assamefour squadron to consist of seventy borses daring winter. Are you mot afraid you are acting contrary to all our traditions in not dividing the older men and horses in riding equads? Is it not necessary to confirm the riding proficiency
proper after the great summer exercises? Do you not think that the recruita of the past year will need additional training? Do you think that, after undergoing two years training, the remounts are so tirm (laggards excepted) that they can serte eight years more and drill continually without being gone ordr again? Does not Schmidt demand that even the riders of the firet-class, according to the then riding instructions. work their horses drer again during the winter?
s. You are asking a great many questions at once. In the first place, I have not said at all that I would not difide the older riders into riding squads: because I form them in a sutall squadron during winter, I no more mean to omit that than to 申il to do away with t'ie division into squads in the spring and sumner after the recruits bave been placed in ranks. Schmidt demand expressly that the dirision into riding squads be kept up during the summer. Why should I not demand that the squadron renain formed during winter, when the riding under superrision of the squad instructors i. chiefly practiced? With this demand. I am not in opposition to a single one of our old traditions. On the contrary. I am following an old tradition from the glorions period of the cavalry. The s fuadrons of the Great King remained ready for war as such throughout the year, and it did not prevent them from turning out for riding. You may infer that from the ungracious remark of the king mentioned by Marwitz, as you stated yourself. The king said: "Who is in charge of the riding of the squadron?" Do you think that there was no individual riding under supervision of the squad instructors? The squadron commander. lieutenant, cornet or first sergeant, whoever was in charge, could not by himself bave super. intended the riding of the whole squadron.
H. Each instructor no doubt had his own squad. Last fall you in:ited my attention to the essay, "A Visit to Ohlau in 1770, " which appeared in No. 41 of the official publication. The Comrade, on October 10, 1885. There the Saxon officer who visited Seiditz reports, that in the evening after the horses had been taken to water, "each rider took a turn around the place at a gallop, and finished by taking some obstacles at full speed and with ease." The report continues: "All the officers were assembled on the place dismounted. They followed attentively the movements of eacb rider, correcting here, remedying there, and advising." In the morning the general drilled; he commanded everything himself, and for an hour-that was the duration of the drill-not a word was spoken or morement made except by his order.
S. I wish we could turn out trwice each day, once in the morning for an hour's drill, and once for another hour, more conveniently appointed, for individual riding and "tummeln." Besides the distance of the drill ground from the stables there are mang other circamstances which prevent us from doing so in most gurrisons. As for the rest, we can do just as Seideitz did-drill and individual riding on the same day. Both the formed squadron and riding in squads should go on at the same time throughout the year, summer. and winter. I can see no reason why this approved practice of the Great King bas been departed from.
H. Simply becanse of the qdoption of universal liability to three years service, and the ralting reduction of the squadron after furloughing the reserves.
S. We know that that isvorta good reason. Any way, we can drill in the school of the squadron with four phatoons in double rank, however reduced the squadron may be. All we have to do is to combine several squadrons for the purpose.
H. Not often, let us hope. The squadron should form a unit in itself.
S. Certainly; not often, bowever, perhaps twice or thrice during the winter. As to your queation regarding additional training of recruits and old remounts of the past year, no onle could be better convinced of its necessity than 1 am. But it can also be done, if the squadron turns out formed assquadron, and, on the drill ground, is divided into riding squads. I am, however, decidedly opposed to retraining and tormenting every year, as is universally done, all well trained horsen which are firm in their gaite, for it simply results in harm to them. It is useless cruelty to animals, and, what is worse, the main ideas of riding, thich were impared to the recruit with so much care, are also ruined.
H. How so?
S. If a man is to give additional training to a well trained horse, he is apt, without being able to account for it, to get the idea that the horsetis not going well enough, and that the rider feeling heretofore experieneed is not the correct'one. Thus he is taught to play at equerry, to "kniebeln.". tp work backward, when it would
$\therefore$ be well to reward the borse for its accomplishments by leaving it alone. The man is therefore taught something wrgng-to mistrain instead of to ride.
H. I cannot rid myself of the idea that it widt be quite necessary for many horses to be gone over again thoroughly during the winter.
S. You express there a truth in exact form. Some horses need it very much. but not all of them. Hence, in individual riding of squads of old men on old horses during winter. those alone which need it should be bent to it by preparatory exercises or any other means you may chonse, hut never all the horees, nor sbould bung. lers over be placed on borses to be retained. hut on the contrary the very best riders. Those lessons should be applied which tend to eradicate the difficulties named. The training should, howerer, not be "en bloc," nor should the whole squad be put through all of the second part of the riding instructions. Least of all, should the two illustrations of the presentation of a squad for inspection. Which are siven on pages 195 and 196, w worked into a scheme " $F$." in conformity to which the whole year's work is regulated, and for which coaching is done ad nauseam. as you may frequently observe during the last few months. Whatever riders may be detailed to train. to bend. should train and bend if they know how, but only where it is necessary. Whoever is not ordered to train or does not know how. -hould leare it alone and simply ride. or learn how to ride properly. of which be would probably stand in need.
H. You would not, then. permit the riders of the late first riditus class, i. e., now the smaller squads of the second riding class, to work their horses all over again during the winter as adrocated by chmidt.
S. I entirely disagree with Schmidt on that point. The riders of the (late) first riding class should not be allowed to do any training. Those alone who are sufficiently progressed may be in. structed how to train. It is conceivable that toward the end of the first year of his service some recruit may prove suitable, if he has learned riding before his entry in the service, or bas special ability. Whoerer at the end of the first year of service is relegated into the (late) first riding class should nerer be permitted to train, simply because be cannot do it. I mentioned to gou once before that Schmidts greatness consisted rather in his ability as drill master of large bodies than in correct views on the details of training.
H. I was told that he was so infinitely zcalous and indefatigable as toforget everything else. It is said of him that as regimental commander be once bad his trumpetere ride in the hall, got warmed $u^{3}$. and remained in the hall until late in the evening. entirely forgetting a party he had invited to his house for the erening.
S. It is wrong in itself to become so interested and forgetful as to remain so many hours in the hall with the same squad. Ans expert rider knows that one or two horses may be ruined in this
manner in a single day, in fact, more eusily so than if there had been drill twice as longin the open.
H. I am curious to know how you wish the winter riding of the older men on the older borses managed, when they are doubly divided, into a squadron of twid platoons in double rank, or four platoons in single rank, and also in squads, each under its riding in'structor.
S. Not at all differently frotn the service method observed by the squadron during the summer, when the special service is priscribed for it; it would drill as a unit, practice individual ridinix under the superrision of the squad riding instruciors, or make the proof of the example by a short fide within the square. The difference would chiefty be this, that during the winter the drill in the school of the squadron would not be so frequent and long as in sum:mer, though during the latter the squadron commander would aloo : Fareato consider every day as lost for bis riders on which they have nut practiced their horses in individual riding. One or two drills per week with the whole squadron would suffice in winter, drills lasting not more than half an hour, and taking place before or after the squadron is divided up among thi squad instructors.
H. Would you arrange the squads according to the efficiency of man and borse?
S. In the manner heretofore pursued by all intelligent squadron commanders. The average number of riders in the same squad depends on the number of remqunts received each year, which is thirteen.
H. Thus you get eleven riding aquads, each of twelve or thirteen horses. Of these squads the remounts constitute two, i. e., the old and young remounts; the recruits form three; leaving six squads, among whicb the seventy older horses would be divided. On what basis would you assign thein to the dither/riders?
S. In the first place, $f$ would give the old rembunts of the year just preceding to the oldest and most expert remdunt riders, to be ridden in addition to the young pemounts, unless they have lagred bebind, and are to undergo angther course of training with this sear's old remounts. That may be the case with peakly borses and such as are bebind in their bodily derelopment; it is less apt to be the case the more the old remounts of the fear jagt preceding were spared daring the great summer exercises. To this squad should also be aseigned the horse or horses of older contingente, which bave been spoiled daring the summer by poor riding. and need a thorougb retralfing. Some of then may bave to be apecially taken in band
by themselves. The longer, bowever, the squadrons adhere to these principles, the fewer will be the horses of older contingents which need retraining. Specially well developed and tirmly going horwe of last year's old remounts may, on the contrary, be placed in the next higher squad.
H. The second squad of older riders would then probably con. sist of the junior half of the twentysix remount riders, which squad would train the old remounts of the current year, and monnt thone borses also which had been old remounts in the past year but ole.
S. Something like that, though there may be special exceptiona; for instance. if some horse of the old remounts of two years aro should sbow such firm training as to make it available as a recruit horse. In its place the squad might take charge of a horse of the older contingents which needs retraininge but not to the same extent as the horse assigned to the first squad of remount riders.
H. You assumed two, or at the most, four horses as requiring retraining.
S. Apparently, yes; in fact, however, it is lifferent. Most of the horses requiring retraining will usually be found among the old remounts of one or two years ago, and are therefore counted in among those horses which are ridden by the twenty-six best riders of the squadron in the third or fourth year of service. Having been carefully trained for four years by the best riders of the squadron, I should think the horses ought to be so firm that they cannot be easily spoiled by anskillful riders. Horses are usually spoiled ly awkward riders through stupid.$^{k}$ niebeln" and training, becalle non-expert riders do not know how, when and where to train. If great care is taken, as I have explained, that the recruits and tle poor riders among the older men ride only with correct seat, refritin from all ${ }^{\text {kniebeln" and training by rein, never hang on by the }}$ reins or give any aids by them but for the purpose of getting the horse lightly up to the bit, none of the older horses once thoroughly trained is apt to be spoiled so as to need retraining.
H. To what riders would you assign the next older horses, which have been more than four years with the aquadron?
$S$. Among the horses of the earlier contingents which are in their fifth, sixth, seventh, eighth and nints years of service, the best trained and freshest are to be found. Exceptionally some horses may remain fresh on their legs for a longer period. just as they may lose in freshness at an earlier period. Witn these exceptions the contingents named will probably contain the horses trom which the recruit horses may and should be selected.
H. From these fire contingents, i. e., more than sixty horsers. - gou would select the thity-nind best for the recruits?
S. The best trained and which, at the same time, are perfectly fresh on their legs. In order that the recruit may gain a perfectly correet rider feeling, it is necessary that he do not receive his first training on numb or stiff horqe. As to the degree of training. it is necessary that his horse be thoroughly trained and obedient to aide of thigh. Itmust qbey the thigh in order that it may respond when the rider is to be taught how to gather the horse for an active gait. No fear need be ontertaingd leat the horse lose its obedience to the thigh through its employment as a recruit horse; for it remains in practice in point of abodience to thigh, since the recruit must constantly use his thigh in riding the turnings, as well as the gait ordered, thus preserving the horse's obedience. The instructor should carefully see to it that the recruit rides with his thigh. Otherwise obedience may be conrerted info disobedience, the horses become hard, pull and bolt. If tetrainitig becomes necessary, it should be entrasted to the most expert men, never to recruits.
F. I suppose you wish to have the same principles for selecting the horses carried out in the clase of those of last year's recruits who for some reason, are bebindhand in their training and have to be reassigned to the recruit squad for retraining. Not many horses are needed for this purpose. If I remember right, there were but two or three such men on an average.

At present, when all the older men are assigned to the second riding class and only sach of lagt year's recruits as are behindhand are oo be assigned to the first riding class, the adrisability becomes appsent of extending this regulation to a greater number of men. The are habitaally formod into a separate riding squad, ranging from ten to thirteen horses.
4. If this squad "rides with the recruits," you will hare to deduct them from the sqadron, since they cannot turn out with it in the current year when the smpll squadron is formed for drill.

Why not? They have drilled with the squadron during the past summer. I might distribute them at first among the recruit squads as leaders, to gide the fecruits a certain support until the latter no longer fall off and can guide their horses to some extent. Afte that it would be bettor to qombine these reeruits of last year; cont ingent, who are riding with the new recruits, in a separate squad.
H. It is true they are ahedd of the recruitis by six weeks of addifional training between the conclusion of the fall maneurers and the beginning of Norembet, since the recruits do not arrive
until Norember 1at, and hardly get on horseback before Norember 6th or 7 th.
$\therefore$ There are six precious weeks during which they can learn much to rid themselres of defects which hare become apparent during their first year of service. soon atter the arrisal of the recruits they will probably again be fit to ride with saddle and stirrup, which does not preclude that during those six weeks they turn out with sadde and stirrup on those days when the squadron commander wants to dirill in the school of the squadron for half an bour.
H. How would you make up the last riding squads, all of which, umber the new riding instructions, belong to the second riding class?
S. Here I will begin at the botom. The horses still remaining will, with some exceptions of course. be, in the main, the oldest in the squadron. From them I select those which show signs of numbness, and seem, therefore. candidates for condemnation. On these older hornes I let those of the older men ride alternately, who, according to our calculation, do not ride evers day on account of other service (tradesmen, kitehen police, etc.). The remaining old horses I assign to the remaining older men according to their temper, degree of training, and skill in riding, forming them in two sifuads, on the principle that each man retains his horse.
II. Where do the non-commissioned officers who are not remount riders. and the trampeters ride?
$s$. Wherever they belong according to their skill in riding.
H. Horses and men would then be grouped about as follows: 1. Young remounts (contingent 1) under the best riders: thirteen horses. 2 . Old remounts (contingent 2 ) under the remaining remount riders: thirteen horses. 3. last year's old remounts (contingent 3) under the riders under first heading; thirteen horses. 4. Old remounts of two years ago (contingent 4) under the riders under second heading: thirteen horses. 5, 6 and 7 . Recruits on horses selected from contitgents 5 to 9 ; twelve to fonrteen horses per squad. 8. Last year's recruits for additional training with this year's recruits on horses like those in squads 5 to 7 , each ten to thirteen horses. 9 and 10 . Older men on older horses; ten to thirteen horses per squad. 11. Men who do not ride daily, on horses which will probably be condemned at the next inspection: ten to thirteen horses.
s. That would about express the principle to be followed. I must add, however, that any exception shoald be made which circumstances, skill in riding, degree of training, etc., render necessary.
II. In the Hussar regiment of the division which I commanded
there was a squadron which took particular pride in being able to let the third and fourth contingent of remounts, each in a separate squad, ride in the second class.
S. It shows that very good principles were observed there
H. On all occasions the squadron showed the highest efficiency in riding. One thing I did not approve of was to make up the squads according to the color of the horses.
S. That is a hobby in which those only can indulge who have no idea of riding.
H. Nuw that we have made up the double skeleton, which we consider proper for the older horses in the squadron during winter. I would like to ask you for information on the subject of the kind of service which is to form the continuation of the training of these older men. We have seventyfhorses, which for riding in squals and for individual riding are divided into squads, numbers 3 :and $4,8,9,10$ and 11 , and form a squadron of two double rank platoonis or four single rank platoons of eleven, twelve, or thirteen files.
S. It will not often be practicable to form thiteen files. for of the non-compissioned officers we ouly leave the recruit instructurs and those detached at home, and all the trumpeqer turn out as sull unless they are still riding with the recruits. There are also some detached horges. Only thirteen files could be formed if no horws were sick. That is immaterial, however.
H. 'When and how frequenty does the squalron turn out alnd drill as such?
S. I would make it obligatory to turn out twice a week for drill and once for field service.
H. The time arailable for contirming the rifing would thas be shortened one-balf.
S. Not at all. The troop tommander should not drill all aity. He may drill for half an hour in the school of the squadron, and then break up the squadron into riding squads for individual ridins. One-half hour twice a week suffices to keep the principles of the drill inculcated in the equadrod during the simmer fresh in the mind. Nor need field exercises be carried to the cxhaustion of the horses. This service may ter中inate on the drill ground, where individual riding may then be qded. I lay great stress on having individual riding every day. If again remind you of the Great King's words: "The day on which the rider has not exercined (tummeln) bis horse is lost to him." It may be that in Octoher. whell some of the officent problems of field sertice have yet to he
solsed, the individual riding camot be had on such days. They whould be counted as tield days of the firmed squadron
H. In this individual riding, would you have riding in equads with dintances?
s. Sometimes it must be had: in all cases, however, merely as proot of the example, and for controlling the gaits.
H. I see another diffeculty in the way of carrying out this measure; it is the equipment of man and borse. If all or part of the horses had to be ridden on the snattle, or if the recruits under. going additional training, ride on the blanket, they cannot be taken out for drill, because they need the curb
$\therefore$ Drill movements can easily be executed with horses on the snatfle. The squadron commander will have to selert his erolutions adeordingly. At resard the lant recruits who resume ridiner on the blanket, it will do them no harm to ride or those day with sadde and stirrup, an they have drilled betione.
H. Ind on the other hag of the week you would simply have ridine in the open?
$\therefore$ And individual riding whenerer practieable: the horses are to be exercised (trmmeln).
H. When in the fall would you begith this kind of exerciee it the older men?
$\therefore$ The very day atter our return from the mancuvers.
1I. Would you give no day of rest to the horses at all?
$\therefore$ No. I consider these pauses, which sometimes extend over four or tive weeks in September or October, quite harmful th the older hores. It is a tradition not older than this century, that after great exertions horsem should hatie a rest to some time. For five long months in winter, from November to March. inclusire, the horses are tomented one hour tive times per week in the unbealthy atmo-phere of the hall, and an effiort is mate to get a hay-belly on them, so that they may look fat. With weight thas increased, with. out development of muscles to carry the horse, they are introduced to the tatigues of the rpring drill period. They thus become nore fatigued than their poorly developed muscles are capable of with. standing. The hag belly disappears, they run down, not the least as the result of the excitement and nervousness engendered by fanly training and treatment. At the termination of the squadron drill period a few weeks rest is considered necessary to fatten them up again. They are exercised daily for a balf an bour, or perlajps ridden as far as the target range. This period of rest is followed by that of regimental, brigade and division drill and mancurers, in
which again more is demanded from the horses than the poorly de. veloped muscles and fat lungs can bear. They return from the maneuvers fairly collapsed. Again they are given a rest for some weeks, only again to begin the winter duties in an unhealthy condition. What is the result? Great exertions cause the fat, untrained lungs to become diseaked. Thowe horses which emerge from these great exertions well, though \{atigued, develop a terrible appetite during the first few subsequent|days. They ent hastily, and during their time of rest do dok get sufficient exercise to regularly digest the food. Thence arise disease of the digestice organs of a typhoid character, i.e., influenza, which is both epidenic and condemic in character.
H. Once before you referred to the fact that our system of service was producing influenza.
S. And I pointed out at the same time that during the pant century in the most flourishing period of cavaly under Frederick the Great, influenza was entirely unknown. The reason was that the King insisted on every horse having at leas two hours exercine each day.
H. If the horse does not accumulate fat in the lungs, and at the same time has its muskles atrengthened daily by rational exercise, great exertions will not tell on it so much as when it enters a period of wevere futigue in fat condition, without muscles or training, and more particularly so if it be in constint conflict with the rider who "kniebels" and nistrailns it senselessiy, and makes it nerrous. But at no time is it more it need of two hours of exercise in the open than when passing firm a period of fatigue to one of comparative rest.
S. For these reasgus I conkider it adrisable to give cach horse at least two hours of exercise in the open air as prescribed by the Great King. I would like to influde even Sunday.
H. It would be contrary td qur ideas of keeping the Sabbath.
S. Does not the coply cook on Sunday? Doles not the domestic wait on you Sunday and blacken your boots? Must not the horse be fed and groomed on Sundas? It is not necessary to drill on Sunday, but as far as permitted by their health, the horses might be taken out for a steady walk early on Sunday morning, before groom ng , if you wish, or before or after church
H. If you consider daily exercise in the open necessary, you would at no time consign your recruits and rempunts to the hall.
S. It is admittedly/a great avil tbat the requirements of training drive these sixty-six horses into the hall wheneder the weather pre-

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cludes instruction in the open; hence I would not let these horses use the hall wheneserit can be at all aroided. But I fail to see why I should willfully allow this evil to affect the older men on the older horses when it can be avoided. I am of the opinion that during the winter these seventy horses should not be permitted to set foot in the hall.

IL. How will you ride in the open when the weather forbids?
$S$ Did the winter ever prevent us from riding in the open during the War of $1870-\mathrm{i} 1$ ? We had to do it, and did not allow ouralves to be prevented. The times are long past when both parties went into winter quarters at the appearance of wintep, and resumed active operations at the opening of the spring.
H. It is true we had a winter campaign' in 1ㄴ14; in 1864 we began a war in the midst of winter, and in $18: 10-i 1$ an unutually severe winter failed to interrupt actice operations on our part. In most recent times the Russians crosed the Balkans in the worat winter weather. In the winter campaign, however. we do not care for loss of material, so long as it brings in fair returns. Nor should we forget that the action of cavalry was very much limited in suth weather.
$s$ Unfortunately yes: and chiefly why? Beranse it hhe no experience in overcoming the difficulties connected with tinter weather. A number of splendid days can always be found in winter, on which it is simply delightful to ride in the open. When frost has made the newly fallen soow into a kind of loose sand, the practice grounds are fit for use: nor does the farmer ohject or send in a bill of damages when we ride over his fields. We then hate all the better opportunitios to use the terrain for feld exercises than during the summer or fall after the harvest, for under moderin conditions of husbandry the harvest is no sooner brought in that the ground is at once ploughed and sowed anew. In your letters on infantry you have pointed out yourselt bow many days this arm can use in winter for field exercises; so can the cavalry. As rearards sparing the horses, I would not demand that in winter weathor we ride in the open as long in peace time as we are compelled to in war.
H. There are times in winter when the practice ground are frozen so hard that we can ride at a walk at the best, and even thas lame some horses. On such days the plowed and cultivated fields become so rough and inaccessible that. if we enter upon them, we may be reasonably sure of breaking some horses' legs. Nor are the fields covered with snow all winter. The farmer will render a bill for damages if we ride orer his sowed fields during frost.
S. At such time $I$ would make practice marches with the squadon of serenty hopses, or, still better, witl the whole regiment of five such squadrons.
H. The roads are then, as a rule, so smootli that you cannot go riding at all
S. It is a misfortune that we do not learn how to ride on ice. It would be a fine testimonial for cavalry, indeed to state by way of :excuse that frost and ice prevented it from purfuing and patrolling during war. We musk learn how to ride on a smonth surface. A steady seat, deep and firm in the saddle, coolness, confidence to the borse whichlitself feels uneasy and needs assistance from the rider, guiding by the snaffe, horses heads straight to front, low position of hand, which should be particularly steady when the horse slips, a epecjally short gait in trot - the dog trot - these are the rules to be observed. Horse und man must, however, be practiced in them, if they are to carry them out in war. Ridinglon smoothly frozen ground should not be continued too long at a tipe, as it is rery hard on the tendons; the dog trot is apt to make the joints stiff. A liveliet gait should therefore be assumed the moment soft ground is reached. Sharp calkins should be used. Wel have a very good kind of adjustable calkins. Do you beliere the men will use them properly in war unless they hare been taught their correct use in peace? Not even our farriers would learn how to adjust them if we did no ase them every winter. There are many special matters to be tak申n into consideration. The calkins are manufactured in bulk and kpt in store; the farrier punches the hole in the shoe, the calkin may pot go ing or may fall out. I hare seen such things myself If the farriers are inexperienced they will not know how to handle them, The men, on the other hand, should know how to change the dull for the sharp calkin when the ground calls for a change. Otherwise the sharp calkin may speedily become dull on hard, rough roads, and useless.
H. When it is very cold 1 suppose you will not insist on individual riding, for you said yourself when we discussed the training of the recruits, that with stiff fingers they woyld not profit mucb from riding in the opeh.
S. When it is cold and the tiding grounds are frozen so hard and roqgh that I am obliged to relinquish ipdividual riding, I would simply make practice marches until the weather changes. Just think how much is gained for the warlike efficiency of the men bs dril ing twice a week during winter, if bat half an hour oach time, add by having one field exercise a week. That will make-

I calculate on one month during the winter when the weather will make drill and individual riding impracticable, and my figure is high -twenty-one treeks. i.e., forty two drill days and twenty one field exercises between October 1st and April 1st, and include be. sides a month of practice marches.
II. During the month devoted to practice marches becanee the cold prevents other exercises many noses, ears, and feet will be frozen.
$\therefore$ For what do we have orercoats with hoods and glaves? The soldier should learn how to defend himself against cold, otherwise he will succumb to it in war. He must also learn how to ride with his overcoat on. He must be practiced in wrapping the stir-rup- with straw : in war there is no time to learn it. Ery he available means are put to use there is no need of freezuinis. On the contrary such a ride in the open makes one feel goot.

II There are days when the snow balls. I have seen ifforen go on stilts. as it were, and fall. That would pata stop to rifing.
$\therefore$ In, that cave I would not ride.
H Might you not in this way be obliged to leave the sedenty old horses of the squadron in the stable for days and weeks at a time?
$\therefore \quad$ No. Do mail and other public conveyances stop their ser. vice for days and weeks on account of the elements? Where the mail and hackmen can get throngh the trained cavalryman will
H. Mail and hackmen must under circumstances risk the loss of their horses in peace the cavalry should only do so in war.
$\therefore$ For these reasons I admit that there may be days in which it is impossible to ride the horses. But there will not be many suc cessise days of such weather
H. Sometimes a cold spell will last quite a while.
$\therefore$ Whenever the cold is such that drilling in the open is forbidden by regulations (more than ten degrees below zero. Reanmur) it is preferable to take the horses nut on the roads fint half an hour of exergise rather than confine them the hall and encrouch on itw use by the remounts and recruits.
H. Are you not atraid. leat mete horee excerioe make man and horse slouchy?
$\therefore$ They are not to be permitted to become slouchy. Many practical exercises may be combined with this horse exetcine Properly utilized it will greatly beneft the squadron. Therelis in the first place the riding in the long marching columin, requitring much care on the part of the men and great unitormity of sait It
is a cood preparation for drill, and may be practiced tor its own sake, for on it depends the sucuess of a charge bo emerging from a defile The men's proper bearilhg must not suffer during horse exercing. On the sountry roads, po less than on the ridilig grounde. aquad leaders are responsible that the men do not slouch. Supervision orer the positipn is a preqequisite for th attainment of grood marching discipline. Horse exercise affords a better opportunity for it than the hall. And the petter the mardhing discipline, the more sabers before the enemy.
H. How far do you mean to promote the aft of riding, as such, in the several riding aquads into which the secenty horses, continuing as a squadron throughout minter, are divided?
S. The riding instructions prescribe that recruits who lag behind, ride eccording to the first part of the riding instructions. That gives dur limit, and refergj to the squad which we called Nu. s. The femaining squads, Nos. 3, $, 9,10$ and 11 , are to be trained in accordance with the principles of the second part of the riding instrugtions, for they bellong in the second riding class
H. Thepe fire squads should then be able, in the end, to go the side paces on the double trail, and shortened galts.

That would certainly be contrary to the red thread which runs throughout the riding instructions, and akainst their express worging. It is stated there, that progress should conform to the bodily development of the horide. A badly ridchen side pace on the double trail will ever be injurigus to it. The instructions state further and expressly, that there ine horses which will never be able to go the higher paces, as I meitioned several thes. They should, therffore, be omitted with such horses. 'The idsight of the rilling instructor and squadron commander is to decide in earh case, whether or when a horke may be trained in them. Lee us begin with the squads of older horsea to which the best riders/belong, that is. acecording to our divisian, with the remount riddrs on older horses. which we called squads 3 and 4 . In squad $3, i$,, , among the horses which were old remounts during the past year, hopses will be tiound which may be bent sideward sif far that the two hoof prints separate (double trail). It will be possible so to shorten their gaits with hindhand well under, as tolapproach the shortened school pace. Horses will dilso be found among them with suct conformation that the higher side paces should nexer be; others whth which they may not yet be_begun.

H Hence the grdater number of horses of which the higher paces may be ridden and illustrated will be found in $\mathrm{Sq}_{\mathrm{q}} \mathrm{uad}$ No. 4
i. e. of remount riders on horses, which, on the average, are in their fourth year of service.
S. Yes; if the remount riders in Squad No. 4 were as frond riders as those in squad No. 3. We should not forget that in kqual No. 4 the less experienced trainers are riding, and for that reasull be more cautious in the rate of progress and demands.
H. You would in no case make fixed demands on these two squads.
S. Yes, I would. I make the tixed demand that each rider individual (man and horso) be so far and no farther) advabced in the art of riding as is beneficial to the horse and intelligible to the rider. This degree of progress in the side paces on the double trail consists in the distance between footprints (from zero to the normal of one pace), and in the shortened trot in the degree to which the hindhand is brought under, which carries the forehand more or less. Under no consideration would I ever have the high school paces (side paces on the double trail and completely shortened paces) practiced in squads, but merely by those riders and horses which are sufficiently adranced. That holds good for all the ridinglsquads of the squadron, fior the degree of shortened gait which a borse can go varies. None could show its greatest proticiency in squads with distances, because it must conform to the gait of its leader. The very best borses cannot go side paces on the double trail in inquads, and observe distance at the same time, for depending on circumstances, the rider might hare to urge and increase the sait just when the horse's gait would call for "half position," or to rein in when the horse's gait would call tor urging. I beliere I developed that idea once before: but $I$ am obliged to repeat. if I an to precisely define the demands to be made.

Greben Aecided to carry out the comentration which led to the battle of St. Quentin solely on the report of a single officers patrol that had pu-bed bohlly the front. It is well known that the plans of the German army were based upon the famon- reconnaix. sance which Major vos C'Soer made on July 2.1 natit.

Napier gives the following grapbir demeription of Captait Wis. lasm Laguts dashing reconmaisance during the Peninablar War: " Whe of these bollies of the enemy* was posted on a hill. the end of which abutted on the high road the -lope being clothed with trews and detended by skimishers: it was cosential to know whether a -nall or a large force thas harred the way but all whembeavored to a-certain the fact were sopped by the fire ot the enemy. hi lat. Captain Wildas Light, distinguished by the variety of his atainme its, an artist, musician. mechanist, veaman, and soldier. made the trial. He rode forward as it he would force his way through the Prench skirmishers, but in the wood dropped his reins, and leaned back as if badly wounded. hi- horse appeared to canter widly along the front of the enemy sight troops ad the thinking him mortally hurt. ceased their tire and took no further notice. He thas passed anobsersed through the wood to the other side of the hill where there were no skirmishers and ascending to the open summit above. galloped along the French main line, counting their regiments as he pawed. His sudden apearance his blue undress, his daring confillonce, and his speed, made the Fretich doubt if he was an enemy. and a few whots only were discharged: but he dashing along the opposite declivity broke from the rear through the rery skirmishers whowe fire he had essayed in front, and reaching the spot where Wemingtos stood, tohd him there were but five batalions on the . hill." These are only a few of the instances that might be mentioned.

The operation of war. which. of all others permits a young ofticer to employ his military aptitudes. is the offeers patrol. An officer detailed on this duty emerges. for the time being. from the realms of tactics and becomes a strategint on a small scale. He must. therefore, have a certain knowledge of the details of war.

Composition and Lisp.-The officers patrol is used most extensively in connection with the cavaly screen. This. bowerer, is not its exclusive field. In our service the officer's patrol consists of one or more officers alone, or an offecer and a few men, both men and horses being especially selected. Many patrols will be sent forward from the different contact squadrons of the screen, and these will be composed of such officers as are arailable at those pointe, but for special and important missions the commander of
the screen, or of the army, will intrust their execution to officers recommended by their regiment of commanders as yossessing those qualities which make them the post fitted to undertake them. It an escort or orderlies are necessary, the officer to undertake the mission is generally allowed to select, from the tropps to which he belongs, men nounted apon godd strong borses upon whom he knows be can depend. The officer, if possible, should speak the language of the enemy, if it differs from his own

Their Duties and Instructions. - The duties which officer's patiols in our service will be called upon to perform, are: fo obtain infire. mation of the enemg'o position, strength and morements; to reconnoiter particular localities; and to establish conndetions with or carry dispatches to a distant force

When an officer receives an onder to make a patiol, he must he sufficiently informed upot the intentions of the superior who semds him, if these infentions are not gencrally known, and whether io not it is desired to keep them secret. This knowledge is indispensable to him, in brder that he mayt be able, from among the observations he will have occasion to make, to distinguish those which are important from tbose which ane not.

The Service in Cumpalgn of the German army, sats: "A subiredinate officer will be able to distinguish more easily : piece of intormation of value, from one without importance, wheh he has been well instructed as to the intentians of his chief." Also, "* * * the officer must be as fat as possible informed of the situation of the enemy, and the planis of the dommander." Conkequently, the commander of a division of cavalry screening the froht of an army would not order the commanders of the contact reg ments to send such or such number of patrols, but would order them to send : certain number of officers to repoft to him, and he rould himself' give them their instructions.

If any one of these o市cers doe not fully understand the inten. tions of his genefal, or any particular point of his instructions, he should, before taking bis departure. clear up the poind by questions addressed to the general himself, to his chief of staff, or an aide-decamp.

Let us suppose that an officer knows only that his division is to march in a certalin direction. Wben he is making pis patrol, he perceives some patrols of the enemy upon a line of rallroad that he is exploring. As these ante simple patrols, and as they have been in the vicinity of the army and have been reported before, he does not think it necestary to inform bis commander at once, and reserres
the mentioning of it until his next report. Now, his division has been ordered and had intended to occupy this railroad and corer it. The appearance of the enemy satrols was, therefore to bis comnhander, a fact of great importance. The general will then receire this piece of news too late because he has not communicated his intentions to this officers patrol. The chief would have still less raton to keep from the patrols what he knows of the enemy's movements, than he would bave to key secret his own designs. The better instructed an officer is betore starting. the more quickly he will collect useful information. for in advance he can represent to himself the position of the enemy. and from his map recognize the points from which be could have an extended riew of the country occupied by his adversary and those from which he conld likely aplroach his first lines or perhaps traverse them.

All instructions should be committed to memory and papers containing information of value to the enemy whould not be carried Mow of the orders for reconnassances are given atter some knowl. edye is already possessed of the enemy, and bave for their purpose the extension of this knowledge. The "Service inc'ampaign" says: -. Officers patrols should not be given invariable directions. or a fixed itinerary, but they must clearly sec the points towards which their missions are directed." If the forces occupying a certain $\mathrm{p}^{\text {oint }}$ are desired. the instructions would be: "Find what force of the enemy are ins." The officer is thas hampered by no iron. clad instructions, and is bound to no particular route. but is left to accomplish bis mission in the way that his genius. ingenuity and sagacity may show him is best. Furthermore, orders giren in this precise manner are the most easily executed, for the reason that the officer then knows precisely what to do. and they bring better results than general instructions to go out and bring in information of the enemy.

It may be necessary to impose the itinerary in certain cases, and, where this is done, the officer must of course conform to it. Before contact is gained with the enemy, the patrols sent out are assigned to each of the main routes, and they must follow them until contact is obtained.

Gait to be Taken.-Time is of great value in war, and the officer must accommodate the gait of his horse to the circumstances of the case and the importance of his minsion. In going to the zone of obserration he should. if possible, aroid any region infected by the enemy's patrols or inhabited by a hostile population. This precantion will allow him to more rapidly to the point where his
operations are to begin. If he tras previous knowledge of the enemy, he can calculate accurately enough where his satety is assured; but having not suchi knowledge, he will trenerally move rapidly until he sees the flrst patfol of the enemy, or until the attitude of the inhabitants indicates the proximity of the enemy. Befond these points commensurate care is necessary. The general will sometimes prescribe the gat to be taken.

Sure and Dangerous Zones.-The terraill towards dhe enemy man. therefore, be divided into a sure zone and a dangerous one. In the sure zone, the pace may be from seven' to ten miles per hour. The patrol's comparatice saffty in this zone must not, however, be all excuse for violating the in variable rule of carefinly scaching the new horizon before emerging from a wood or village, or fescending from a beight into an unexplored valley. Three steps too many may. cause the officer in charge to lose his party, to discover himselt in the enemy, or to compromise the success of his mission. If wot alone, the officer should always send forward one or two men as a point. If his party is large enough, its dispositions should be similat to those of the main army. The duties of these adrance, rear, and flanking parties, are the same as those of other patrgle.

When the dangerous zone is reached, the usual routes of com. munication will be given up for those less trequenfed, or the advance will be across conntry, or under cover, a few yards to the right or left of the main road. The adrance is more cautious, and a rapid glance at the horizon is now not sufficient. Every fold of ground should be separately and carefuliy examineti. A pair of good field glasses is indispensable for this work. Some officers seem to be naturally endowed with the faculty of discorering anything unusual at a glance, others have to seareb long and diligently before they discover the epemy, while others never fond anytbing, whether they search or not. After assuring himself that the horizon is clear, the officer should take advantage of his commanding position to select his ropte to the culminating point following. Failing in this precaution, he may after advancing a bhort distance, emerge from cover and be compelled to adrance in an absolutely open terrain.

What Should be Reportid.-Tle first detachment of the enemy which the patrol will meet will, as a rule, be one of his patrols. What then would he do? Would he report it? Not \&ways. If he had seen nothing else during the jqurney, he would report it in the evening as the result of his expedition. But if his instructions had said that the enemy was in the ricinity of $S$, and he had seen some
detachments in this direction and rome patrols at points unmentioned, he would not fail to report this fact at once. But, as a general thinge patrols will not be reported except at the besinning of the campaign, or when contact has been lont for some time. In these cares the appearance of the tirst patrol of the enemy becomes an important fact. Whether or not a fict should be reported should be lett to the intelligence of the offerer and the logic of the facts. A rule could not be prescribed that would cover every gase.

Reports. The "Service in (ampainn" of the derman army re. quires all reports to be sent upon hanks of the following torm


The sender fills all spaces except time received. The officer to whom sent will fill in the time of arrival. Vuter "sender" will not be written the senders name, but the name of his expedition, as "Officer's Patrol tron the Sixth Cavalry upon the Village $S$."

The number of the report must not be forgotten. It will enable the receiver to know sondetimes that a report has been lost, and will thereby facilitate bis understanding a succeeding report, which, without a knowledge of this accident, might be incomprehensible. It is well. however, when one report is based upon the one preceding to recall succinctly its purport. as "The troops mentioned in my report No. 2 (one reginient of infantry. two troops of cavalry) are marching towards Kickapoor".

The point . From Where sent, "Thould be given with reference to an inhabited place on a well known labdmark. This permite the receiver to orient himself quickly, and the at once knows the dis. tance that the patrol hap traveled, where it actually is, or the terrain it has occupied or reconnotered. He caik then decide whether or not it is necessary to aend out new pabrotes The moment of departure is, however, of moxt importance. "Where a report taken several hours to reach its destination. it loses halt its value if the time when the intormation was taken in not recorded. The information is not exact at the moment when receivel on acoount of the
events transpiring while it is on its way. But, if the receirer knows the hour at which it wase sent, he can, by calculating the time and inspecting the map, change the situation to corcespond with the present.

The superscription will be simple. The report proper sbould be clearly and legibly written, and should be scrupulpusly accurate as to facts. Proper names should be carefully spelled The length of the report, however, demands some reflection. A wise man once said: "As I have not the time to write you a shoft letter, I write you a long one." Brevity is disirable, but not at the expense of clearness.

The instractions of the "Serfice in Campaign" \&ncourage officers to express in their reports personul opinions and inpressions: and, indeed, they may be of value. There is no reason fo suppose that a general will allow bimself to be led away on a false mancuser upon the advice of a lieutenant. At the end of the report is written the name and grade of the sender.

Conduct in Presence of the Enemy.-A question nore difficult to solve than that of the report is the course of conduct when the enemy's patrols are sighted. The officer in command must remember that be is after information and must avoid a skirmish, but if be can exterminate the enemy's patrol by throwin his party upon it, thas rendering his route free, the attack would not be a bad operation. In an exceptionally propitious case, an enemy's patrol, after being repulsed, could be followed in its retrea without falling into the enemy's hands, and a glimpse of his adranced line obtained. This, however, is extremely riskjp. Once a patrol's presence is discovered to the enemy, its movementa are hampered, and it cannot freely follow the route it had chosen to accomplish ith end. It would be better to seek concealmenit fill the enemy has passed and then proceed undiscovered.

Strength of the Patrol.-The sifrength of the detaghment will vary in different cases. If several reports are to be rendered, that many couriers will be necessary. In tfaversing a hostile country; or one infected by the enomy's patrols, the courier will need an pacort in returning with the information oblained. There are many cases where an officer can best accomplish his mission alone.

Bredow, in the "History of the Ninth Hussars," says: "Lieutenant Blankenaee, belonging to a reginent of Canneberg dragoons. which was surrounded, resolved to pierde the enemy's line and seek rein. forcements at a neighboring cantonment, with the aid of which they hoped to escape the next day. The Colonel gave hip his best horse,
and. atter being forced to return the first time, he made a second attempt, and succeded in pasingethe line. He had to cross a marsh, to swim his horse across a deep stream, and to climb some dangerous heights beyond: but notwithatanding all these difficulties, he arrived happily at Trappan and obtained the desired add: his regiment was rescued after a brilliant fight, and be received a squadron as his reward.

The same history recounts the brilliant exploit of Lieutenant Blementhal. who had carried an order to General Kettler near Dijon. After delivering the order. and while returning. he was assailed by some franc-tireurs. His home was shot and fell upon his log. He thought himself lost but fnally succeded in extricating his imprisoned leg by parting with his boot. The French pursued, but he escaped, and after a long march, one foot bootless, was picked up by a patrol of the Eleventh Dragoons.

General Considerations.-An officer on this service must be prepared for any contingency. When he perceives an enemy patrol he will aroid collision, and try to accomplish his ende by taking a new direction if necessary. A new itinerary, the reeking of a hiding-place, a forced march, a march at night, and above all, a good horse, will deliver him, if he has no bad luck, from the consequences of a bad step. There are two cases where the enemy patrols should, if possible, be attacked: First, when they are dis. covered upon the point of obtaining a knowledge of your movements or position; and. secotd. when the opportunity of capturing the whole patrol presenta itselt: An especially appropriate occasion for the latter case is when regoining after accomplishing its own mission.

It is always important to make prisomers, for from them can senerally be learned the names of their chiefs and the positions of the corps to which they belong: but they should be taken incidentally, and no important mission abandoned or interfered with to make the capture

When the enemy is encountered the real work of the patrol begins. Here no rule of action can be prescribed. The circumstances of the case and the good judgment of the officer in charge must determine its course. But it is only by boldness and coolness that a patrol will be useful in the neighborhood of the enemy.

In the Franco-Prussian War Lieutenant Konig was recomoitering with a patrol of German cavaley a long way ahead of his army in the enemy's country, ard going along a lane to avoid a body of French troops he met a French infantry regiment marching up it.

Escape seemed impossible, but the officer and his four men galloped straight on along the road, and the infantry macle way for them almost without noticing them at all thinking they were some of their own cavalry; they never expected to see ady Germans tin many days to come.

The same patrol afterwards came across another body of French infantry, and emboldened by tho 1 former escape, they quietly rode up to this lot showing a flay offtence, and told them to lay down their arms as they were surrounded. The infantry supposing from their boldness that this was the case, did so, and moved off to a neighboring village as they werg ordered. The patwol then broke up the rifles, burnt them, and nde away. The infantry reportent of course that there was a laryf force of German caralry there. while in reality, besides this pathol, there was not a German within 100 miles of them.

For such enterprises as these, perery man in the patrol must. of course, be full of pluck; and erery man mast be sharp, at finding out information, and firding his way about in astrange country, and this is where it becomes so importint for a man to know how to read a map. This knowledge and a compass are indisperpable.

Two thinge go to put pluck in a man; one is confidence in himself, and he can only hare this confidence when he known how to find his way back to his own peoplde, and when he kows that he is on a good horse, and is himself a good enough man for any two of the enemy; the second point is fo remember that ff feels ang nervousness, bis enemy feels just as bad and probally worse.

It is most necessary that when on patrol duty every man shouhd take the greatest care of his horsf. It is on this kind of duty that the horse gets twice as much work as on any other kind, and at the same time does not get so regularly fed or groomed. A trooper can never tell when not only his life but those of his comrades too, may not depend on the speed and mount of energy ldt in his horse. He should avoid over-riding him, ind he should, as often as possible. dismount and give him rest; let pim drink a little has often as he can, and give him plenty of food at every convenient opportunity. His horse's feet must be examined frequently and hare the best of care.

After tho patrol's mission is accomplished, it must rejoin its corps, and the question of route is an important one. The officer in charge can alone judge which one is best. While the road just traversed has the advantage of bling known, if it lies through a hostile population, or if the country is infested by patrols of the
enemy, there will alway be danser of capture when it is chomen As a semeral rule a diferent ponte will be selecten fire returnine.

To be successtul in this fichi, an ofticer mast join cumbinst to bravery and probence bandacity. Always molicitous, always sur. rounden by danger which he mat forect and surmont. be will at quire in athont time ath experience of the details of war which an otticer servilg with hi- tron will rarely whain. becalle the latter
 all his mowements



On March 3d. Chitral fort was survendered, and all communication ceaved with Gilgit. Lieutenant Fowier, R. E., and Edwardes, Indian Staff Corps, left Mastuj with some sixty men, with a convoy - of ammuntion to open up communications. They were surrounded in a house in Restan, and fousht desperately for seven days having to make sorties for water; Lientenant Fowler was wounded. The enemy then told them pare had been arranged, sent then provisions. and two or three days later invited them to sec a game of poln. The officers, probably tearing to jeopardize the only chance of encape of their party, accepted. On a signal from Mabomen lsa, the leater of the Chitralis in Rewhan, the were set on suddenly, taken pris. oners with the escort they had brought, and bound. The house in whirh their party was. was ruhed and all sepors not Mabomedans murdered in cold blood.

Early in Match, Lieutenant Moberter. D. S. O. Political officer at Mastuj, having heard some disquieting rumors, arranged for Captain Rose, with Lieutenant Jones and 100 rifee Fourteenth Sikhs, to leave Mastuj and reintorce Lieutenant Fowlek. He proceeded as far as Buni, some seventeen miles trom Mastuj, left a party of forty men there intending to make a dash to reach Fowner and Ed. wardes. and return with them. On the way he was set on in a defile by men rolling stone down the mountain sides from a height of $2,00 n$ feet, lost many men, and tried to return. His reterat orer the river was cut by the briture beine broken and a lons line of stone entrenchments (sangars). opened tire on them. The survivors reached some cates in the hills, and remained thete two nights and days. An attempt was made to scale the monntaingiand turn ont the conemg but a precipice was reached and return becatme necessary, one man being killed by tallinge in the attempt to seale the precipice. The only alternative now left was the the party to cut their way back at any cont. This was done, but only Lientenant Joses and fourteen men. of whom ten ware wounded. got through to Buni. Captain Ross was shot throush the head. storming a a sangar, after be had killed several of the enemy himself. Lieutenant Jowes and his men rejoilled their forty men in buni, and resisted succestully till Lientenant Moberiey relieved them vix days later with 150 men from Mastuj. He excorted them, followed by enemy in large numbers to Mastuj, having done thirty-fiur miles oser a mountain road without baltinge his men carrying their kits and 120 ronnds each. Mastuj was surrouthed on March $2 \underline{2}$ d. and all com. munications ceased with Gilgit and Chitral.

On March 2 ed. great alarm beins felt in Gilgit at non receipt of
any post from Cbitral, a column was collected at Gi申git under com madd of Colonel Kelly, Thirty-third Pioneers, consisting of 4 III rifles Thirty-second Pioneers under Captain Borrapaile, and two guns No. 1 Kashmir Mountain Battery under Lieutenant Stewart. R. A. Colonel Kblly's orders were to advance towards Chitral. and if possible relieve it and Matuj. We arrired ak Gizar, about 120 miles from Gilgit on 31st March. Here our dificulties berfan. there being a bitch as to transpoit, and Ghizar being at an elevation of 10,000 feet, snow was Iring bbout eight inches iqeep. The road from Ghizar lies for thirteen milet along the Ghizar Villeg, orer more or less level ground to Langar, which is at the Gulgit side of the Sbandour Pass. The road rises there gralually for some four miles to Sbandour Lake, 12,500 feet, passes orer the lake at this season of the year, and descends rapidly some five miles on to Lasper, a large village at the elevation of 10,000 feet.

On leaving Gbizar on ist Apfil the column proceded for about fire miles, when deep snow wa encountered, so that the battery mules and transport ponies went in over their shoulders. and it was found impbssible to proceed with them, even unloaded. The column returned; 200 pioneers with all fooly transport werd left at Tura. a small village three miles from Ghizar, with orders to proced when possible; the remainder returned to Ghizar. On ${ }^{2} 1$ A pril heary snow fell. Sledges and toboggan were made and tridd for guns and ammunition in Ghizar, and appeared to answer fairly well. On 34 April the guns joined the pionecpest Tera, and proceeded as far as the mules could go, all battery mon carrying their onn kits. They were then placed on the sledges. It had now, bolrever, become very hot; the track made was not broad enough for the sledges, and snow was soft. The labor of dragging was excessive, so the guns and ammanition were slung on poles and carried by gunners and sepoys. Owing to deep snow, and the narrow frack this was most arduous work, as when a man's foot got off the track be went in up to his waist. We proceeded at about balf mile an hour till 8:30 P. M., when we were about three miles from Langar; here darkness came on, men could not see wheré to place their feet, and were utterly done. All loads ware stacked in the snow, upright poles being left to mark the spot if case of more snow falling, which appegared likely. The last amen get into camp at 11 p . M., and had to bivouac on the snow with a bitfer wind and severekold, no tents baving been brought from Gilgit. The next day the 200 pioneers, under Captain Borradrille, crossqd the pass to Laspur, which they reached with great difficulty at $\boldsymbol{7} \mathbf{3 0} \mathrm{P}$. m . The gunpers and fifty
men of the Fourth Kashmir Rittes and thirtyeight coolies returned to tetch the guns and ammunition, which reached Langar by 4 P. M.,
 started over the pass. forty relief coolies met us half way, amd the guns arrived in Laspur at $4: 30 \mathrm{p}$. m., neally all the men being snow. blind and rery done up. On tith april a reconnassance took place ten milew down Mavtuj Valley and hack. guns being carried by coolies. The enemy were discovered in position at Chakalwat. On Th April troops hated to rectuit, and Colonel ketary joined us. On Sth April the force moved to (iusht, two miles from Chakalwat and eight miles from Mantuj. The enemy were observed strength. ening their sangars. Theg were attacked on 9 th $\lambda_{\text {pren }}$ all and driven ont after in hours fighting, losing some twenty or so killed. The column marched into Mastuj. which had been shut up fer eighteen days, but was all correct.

Two hundred more pioneers joined here on 11th April, and the gan. carriage and whed saddles having been got over the pass. the guns and ammunition were packed on country ponies, about thirteen hands high, whigh seemed to act tairly well. On 13th April the column, consisting now of 410 pioncers. two guns, 101 Fourth Kashmir liffes, forty hashmir sappers and miners and 150 levies, advanced to attack the enemy at Xisha Gul, a very strong position on the far side of a deep, precipitous nullah. The eneny had a line of sangers along the far edge of nullath right across the valley. with sangers at intervals up the steep monntains on either side into the snows, and occupied, as far as we could guess, by some 2.000 men. The nullah above mentioned bisected a large, undulating, fan shaped delta, inclining up from the Chitral River to short, rugged nullah into the mountains on our right. The cliff over the river was sheer for 300 feet, and into the water course of the nullah for 250l to 300 feet.

The only way of crowing the nallab appeared by the road. which had been cut away on either side of the nulah, and was blocked on the far side by some large sangars. occupied by about 1.000 men. On the other side of the river procipices rose, which were quite impassable, and studded with mary sangars.

The column having advanced by right batnk of river. deboached into the plain and deployed to attack enemy left. The guns came into action at 500 yards, the first point from which the lower sangar was visible. Affer this was silenced the guns advanced to within 150 yards of the large sangar, a most formidable one. This was necessary, owing to undulating ground, but it had luckily been
evacuated. The gans came ihto action at 275 yards on another sangar, and fred common shell into it, and just before retiring two rounds of case. This sangar qiso being silenced, the guns retired, and came into action at 1,050 yards, and 850 yardsjon large sangars on enemy's right. Levies were sent to turn enemyls left flank high up the nullah, the Thirty-second Pioneers keeping fangar fire down by well directed volleys Light ladders with ropos were let duwn into the nullah, and men crosed slowly, there befng a gat track up the far side. When the enomy saw that the levies hitd turned their flank, and sepoys were crossing the nallah, they retirel from all their sangars and flod townrds Chitral. Volldys were fired at them, and some rounds of shrappel. The main bodif crossed by the road and birouacked about one mile beyond the scene of action. Our losses were six killed and sixteen wounded, of which the guns lost three killed and three wounded. The enemy were seen carrying away their dead and wounded. We found some twenty deal. and computed their losses at fifty killed and 100 wounded; this was more pr less contirmed by native intelligence.

The enemy were armed with many Martini and snider rithes, and had lots of ammunition, and made wonderfully grood shooting. Had not the ground been undqlating, our loskes pust have been much greater.

The wounded were returned to Mastuj, and on 1 fth the column marched to Kila Drasan, a most \&rduous maseh. Tl ere bad been a bitch in commissariat and transport arrangements beyond Ghizar, the people hasing fled. The roads and bridges were broken in many places on the road to Chituhl, and we did not arrive till 2nth. The enemy were , not again met with, and evacuaded Chitral on night of 18 th to 19 th. We arrired just in time, ak the garrison said they did not think they could have held out another week.

Great credit was due to all fanks for the way they performed this most arduous march; carrying the guns was rap hard work. There was only one case of falling out in the section, this was due to severe snow blindness, and altogether there were bhirty cases of snow-blindness and twenty-six of frost bite. We were all very pleaned in Cbitral to receive two congratulatory telegrams from sir George Weite, praising the resolution shown in gedtintr over the snow and the conduct of the troopl in action.

The following account of the siege of Chitral Fort is deduced from notes kindly lent by Captain Campbell, Central India Horse:

Chitral Fort is a square erection, haring a high square tower at each corner, made of stone, wood and mud. The walls are about
twenty feet, the towers from thirty feet to fortyre feet high. The fort lies near the river, that is. low down, and can be seen into and commanded from all sides. A covered way had been made to reach the river, there beins no other water supply. Trees grew quite close up to the walls on three sides. and owing to suldenness of investment, there was no time to cut them down. Although a had position, the fort was the only place offering a chance of resisting the large numbers of the enemy for any time. A large quantity of grain had been stored. and the men had 3100 rounds per rifle.

On Sunday, 3d March, news was receired that Sher Afzte, with a numerous following. had arrived at the southern extremity of Chitral plain, about four miles from the fort. Captains Campreti, Towninend and Batri proceded to make a reconnaisnance with 200 Kashmir sepoys. The enemy not showing up in great numbers at first, an attempt was made to dislodge them from at hamlet called Kokasiand. On becoming elosely engraged. the enemy appeared in great numbers, and many were seen descending the high hills on our right, whither Captain Bard had been sent with some men.

An attempt was male to elear the viflage with the baronet. but failed. Captain Campreir. Was shot it the knee just prior to the rush: Captain Baird was mortally woumbed almost at once: Captain Towsiafod led the rush on the village, abl on either side of him were General Baj Singa and Major Baknan singin, of the Kashmir army. These were both shot dead. It appeared impossible to do anything but retire, so the men were placed behimd a wall and wated for darkness. At $1: 301$. m the order to retird by alternite half companies was piven. The steadisess of the mowement was interfered with by an overwhelming fire from front and fanks. Every bit of cover was mate use of to check the eutmy, and the tronps reached the tor: at $\overline{7}: 30 \mathrm{p}$. s.. having low twemy two killed amd thirty-four wounded. The final retirement was rowered by fitty men of Fourteroth Sikhs, Surgeon-Captain Wmaturanh, I. M. S., hat proceeded at ouce. under a very hot fire, to assist C'aptath Batrib. He carried him down the bill, abl placed him in a dooly but wo of the bearers were at once shot amd Wuratercal. With we sepoy, athe escorted by four others. carmed Band about half mile. till they reached a deep nulah ranaing acrose the chatral plain wowds the river. They did this moder a most severe tire aml three or focr times were obliged to phace Band on the groum amd with the hayonet elear the enemy fiom stone walls in their front. On reaching the wallab, they found it impossible to proceed atraight. ath had to make a lome detour by the river, and under fire, arrivines at the fort
with nearly every one of the party hit. Captain Balrib was arain hit quite close to the fort. Surgeon-Cuptain Whifcherch has been recommended for the Victoria Cross, for this rery fallant deed, and the sepors for the Orker of Merit. From Sll Match to 19 h April the fort was closely incested on all sides by the enemy. Ther huilt fascine entrenchments at forty yards distance, amp kept up a tire night and day. They were armed with many breech-loading riftes and lots of ammunition, and the losses in the fort amounted to sev. enteen killed and thirty wounded. The conduct of the Fourtecuth Sikbs, under Lieutenant Harder, was beyond praise. They never got a night off the walls, and the greater the danger became the more cheerful they appeared. The garrison was qationed from 34 March on one pound of gritty flour only daily, and the only meat obtainable was the officers ponies. Several attempts were made to fire the fort, one of which fired a tower largely made of wood. and in attempting to put this out, the British Agent, Mr Robertsos, was sererely wounded in left shoulder.

The enemy alko mined to within two yards of one tower, and When this was discovered, on 18th April, Lieutenant Ilarley, with forty Sikhs and sixty Kushmire sppoys, made a brilliant sortie, caught the enemy in the mine, killed forty-six of them, and blew in the mine. His party lost eight killed and fourteen wounded.

Great proparations had been made for a grand lassault on 19 th April, but the enemy fled on tha approach of the Gilgit column on the night of the 18 th to 19 th. The whole garrison were never off the walls at night, and endured their privationa quecrfully. The bhisties should not be furgotten; two of them were killed and one wounded.


PROFESSIONAL NOTES.

HOW THE FIRST MAINE HEAYY ARTHEERY LOST 1.179 MEN IS THRTY DAYS.
The organzation of heary arthery wontituted a pecular and The organzatom or hesa in the late war. Practically speaking, distinct branch of servee in of the war, they were nether artillery during the first three years of the war. The were uniform was of the is. nor intantry, though allied to both. Their untorne watillers, amd fantry pattern though trimmed with the red of the the heary gans though they were well drilhed in the tactics of all the hear gons from the six-inch mortar to the humbed ponder Parroth. Set thes were fully armed and equipped as infantry, and cond show a better line and execute all the intricate movements of that branch of ser rice with more precision than any infantry regiment in the fied.

This was their standing. when to the number of $\mathbf{5 5}$. 00 , in the month of May, 1864 . his force was ondered from the defences of Washington to join the firces of general grast near potayl wama Court loonse. From this time until the surrender of General Lee at Appomattox, they were to all intents and parposes so many reg ments of infantry, working in the same brigades, making the same marches, enduring the same hardships and fighting the same butter with the infantry reriments, and, in short after being incorporated with the infatry brigades their only distinction was the red trim into the infang uniforms and the crose camons upon their caps. ming upon treing these regiments had been recruited and orsat As a general thing these regiments had been the War Department nized as infantry, then by precial orders from the war of the service they were transferred to the heary artillery branch of the service and recruited up to 1 sum men by filling the ten old companies to 150 men each and by adding two new companies of equal numbers.

When the First Maine Heary Artillery marched down Pennsy. vania Acenue in Washington, on the morning of May 15. 1stit, it was a reriment of nominally 1 , sol men. but of course all were not present for duty. Some had permanent details away from the command, others were scattered in the Northern hospitals, while a large contingent. including the large number of sick in our post hoopital and many others who had been on duty about camp. but were unable to bear the fatigues of the march, were left behind. Besides
this, quite a number were detailed as cooks, order曹es, and hostlers The exact number of men which the regiment todk into battle the 19th of May, I have been unable to determine, but the knowledge I have of my own company and the written statefnents of several company commanders, noted down at the time, and from all the in. formation I can gather, I am safisfied that not over 1,600 were with us that day.

The regiment embarked'on a transport at the foot of Seventh Street during the forenoon of pray loth, and landed at Belle Plain the same evening, where it remained until the morhing of the 17 th, when it took up the line of march, passed through Fredericksbury and arrived at Spottsylvania at 11 oclock that entening. We had now literally arrived at the seat of war and were lifible to be called into action at any time. Made up from good materiat, perhaps an better, and certainly no worse than the average retrinent from the old Pine Tree State, the schoolitg we had received while in the defences of Washington had made ugthorough soldiers so far ats itril and discipline were coucerned, but we lacked the practical knowledge of fighting the enemy or how best to proteco ourselves whon in range of the enemy's bulleth. This we learned later on in the hard school of experience, that is, what few of us there were left after thirty days of such schooling. Early on the morning of the 1sth, we were awakened by the booming of cannon We had hearl the artillery firing at the second Bull Run battle in $181 ; 2$, and at Aldie in 1863, and in each case were at a sate distance, with no likelihood of being called into action, but now the cate was different. The firing was only a mile or two away and in less than ten minutes we were moving on double quifk time towards tho point of attack. - going into line behind well built breastworks in upport of what proved a feeble attack by our forces on the bloody angle, the scene of General Hancock's brilliant dharge on the morning of the $1 \geqslant t h$. Here we prepared breakflast, açustomed oureelver to onr new surroundings, and enjoyed as best we could our firs day umler fire. We were well out of the range of bullets, but many shells burt along the line, yet we moved of late in the aftertion with ranks unbroken, and at roll call the neft morning, for tho last time. every comrade answered, "Here."

All day the 19th, the troops from the right of for :army were moving away to the left, and the Fredericksburg Pike. over which our supply trains were moring, became uncorered and the enems, always feeling for an opportunity, had adranced a force under Gell. eral Ewecl, which had cautiougly moved along, pntil late in the afternoon they struck the wagon train protected only by a liyht guard, which was immediately stoept awa and our supplies were in
their hands. - Our regiment chanced to be the nearest the point of attack, and it was started at onde on the double quick. . Wbout the time we started a heavy shower tame on, but on we rushed through rain and mud, and as we neared the train filed off to the right so as to bring ourselses into line, then made a dash for the wagrous. The force of the enemy at that poing was not a beary one, and they
were brushed away without a halt on our part. some being captured: but the larger part fell back to their main line. Advaneing for halt a mile through the thicket without meeting the enemy we emerged into a clearing. a feld of perhaps ten acres. divided nearly equally by a small sluggish brook fringed by fow trees and ranning from right to left. The ground sloped gently on our side of the brook. but was steper beyond ap th the edge of the woods, where the enemy were posted. Ip thishitl the firce driven from the wagon train were rushing as we came out of the woods. hat were soon out of sight.

The regiment moved two-hirds the way down the slope. where they were brought to athalt. and firing commenced which lasted twi hours and twenty minutes. During all this time the men stood. fught just as you see them in pictures, and were the coolest lot of men I ever naw under any circumstances. They loaded. took aim and tised, then would deliberately clear the smoke from their guns by half cocking, throwing off the old cap and blowing into the muzzle, always giving the gun time to cool a little before reloading. Men were falling, to be sure, but those who were able got away to the rear, while those who were not. lay quietly along the line, and the survivors were too much engaged with their work to notice much about them until the enemy retired and the firing ceased. I spoke of our being in an open beld; so we were, but not all. We made so long a line that one or two companies on either flank extended into the woods and were more or less protected; in fact, the loss in Company " D" amounted only to one killed, and he on the color guard out in the field, and three slightly wounded; while on the other hand, Company " E ," whicin was in the field and fally exposed, had twenty-three killed or mortally wounded and forty-seven others wounded -a total of seventy out of 135 who went intoraction. The loss in the regiment was $15 \overline{5}$ hilled or mortally wounded and 369 wounded-a otal of 5-4. This was at enormous loss. amounting to nearly one-third of the number engaged.

In fact, up to this time since the war began. no regiment had suffered sucha numerical hos in any one battle. but the end was not yet. There were two things which largely contributed to our loss. The first and most important was the position in which we were halted on the field. Had we remained at the edge of the woods on the hill, or even advanced across the brook. we shomb hare been partially covered from the enemys fire. Then, had we thrown our selves flat on the ground a less number of men would have been hit. After this the regiment never fought the enemy while standing. except in making an adrance. As soon as the firimg slackened, Company " $E$," of which I was a member. was deployed as skirmishers. and adranced against the enemy so close that two of our men in the woods on the left of the company were taken prisoners, one of whom went to Andersonville, but the other not liking to take the chances of prison life, tried his hand at making his encape. He was a wily fellow, fertile in resources, and as cool as he was brave. He not only succeeded in making his escape back to our lines. but brought in a
prisoner with him. It was not all smooth sailing for inm. fire le was obliged to shoot down two of the enemy whofstood jn the way of his escape. Near midnight the company wat relierod and ordered in to a point on the hill in rear of where we hat tourht in the afternoon. The men came in through the difrkness, singly or by twos, and I venture the assertion that no more cordial grectings were ever accorded than werc oxtended to each netw eomer by those who had preceded him. We had been in service thentyone months and had learned to trusd and love each other as buothers, and is it and had learned to trusd and ove each other as bothers, and is it any wonder that tears eame unbiden-tear- ofsom
many had fallen, and of joy that so many had evined?

Later on I accompanied a squad of men who fere froing on to the field to bring oft the body of Lientenant Johf F. K Nownes, of our company, who had been killed. As we neared the point where we had stood in line, I noticed eight or ten of our blen laid out mile by side, the beans of the monn struggling through the fleexy chouls. lighting their upturned faces, all smeared with thel Monke ot hathe, some showing raping wounds. athl all ghastly and lifeless. Laoking to the right, where the color guard and Company ". l $^{\prime}$. had wood, was a similar lot of dead carefally laid out: beyond his andothere ablid another, until the woods were repehed, and the sathe thing away to the left. It was a molemn monemt, as I gazed on the scene at that midnight hour, my tirst look upon a deserted battletield, and how forcibly those rows of dead men'reminded me of the gavels of reaped grain among which I liad worked on my native hills. but here the reaper was the Angel of Death. I pickedlup a canteen to replace my own which had been pierced by two bullets, and harried from the field. One look was enough.

Ervin Cgamberlain went info action on my left. This was his only battle, and the impressions made on his mind yerelasting. He told me a few weeks ago that the man on my righty and the cone on his left, as well as the twoi who covered us in the rear rank, were all killed or mortally wounded, and that he was bit sefen times before being disabled, and I could count the marks of nine bullets which liad made a close call on mer. At 11 o'clock the nizht of the 20 th, the regiment was on the niparch, which was kept up at a rapid pace for serenteen hours, with less than five minuter rest during the time. Passing through Bowling Green, we were halked near Milford Station, where the regiment went into line and threw -up breastworks, while Company "D," under Lieutenant Henry E. Sellers, was advanced as a line of pickets, but were attacked by the enemy, losing one man killed, one wounded, and one prisoner.

On the 23d of May we reached a point near the North Anna River, and near night were subjected to a severe sbell fire, losing two or three men. We were kept in reserve until the atternoon of the 24th, when we crossed over thie river on a bridge upon the run, under one of the liveliest shell fires we ever got into. Probably twenty-five shells exploded over our heads while paking the run, but one man only was hit, getting a slight scalp wdund bs a small sliver of iron. We labored most of the night building breastworks
and remained here until the night ot the ghth, when the army was withlrawn to the north side wt the river, and proceeded on another flank movement. The luss of the reriment was two killed or more tally wounded and five wounded. The 2rith and 20th we were nead Hanovertown, where wo had one man killed. The zoth we moved out near Totopotomy Creck. and the morning of the 3lst moved ateross the creek and assisted in drivins the enemy from their outer line of works. Gettiar into position. We lay under a broiling sun and a most uncomfortable shell fire the rest ot the day. In this ate tion we had three men killed and ten wonaled mostly by exploding whells. One sheil exploded immediately wer the left ot Company. F .
 and two others wounded. but the $\cdot \mathrm{E}^{\prime \prime}$ men were all want. though several pieces of the iron struck amone us. one piece poing through the erun-stock of Corporal Fexisaso atol atooher demolishing Sergeant Conpis's cantern. In a few minates some enterprising man in the company. who was short of cooking tools had melted the solfer around the edire of the cantern, and with a split stick the a hamde on the good half. was basy freing meat and prepariner his supper.

The next day. Jume $1-t$. commenced the batele or rathere serics of battes, of Coll Marbor. In this action our reriment was not directly engited with the enemy. hat were held in reserve while other regiments and brigades were being hurled under atorible fire arainst a line of earthworks so stroner and well protected by abatis and almont impenctrable slashes that mon tore of neth. howerer brave, could lope to break, so long as the works were well matned. Our work was to rush from point to point alons the line now to the right. then to the lett, in quich succession, always exposed more or less to the scattoring tive from the not far away front. The heary fighting was on the 1 st and 3 , of June, and the loss to the army amounted to some 13,000 men. Our reqiment was continually under the scattering tire of the enemy, and scarcely a day passed from the Ist to the $1 \underline{i}$ th of June but what one or more of sur men were wounded. A reconnaisamace of Company "A," on the evening of the 1 thh, resulted in the loss of fire prisoners. The total loss of the regiment in those twelve days amounted to one killed. twenty-seven wounded, and seren prisoners. At $10: 30$ on the night of June $1 \underline{t h}$ we mored out of the works, marched a few miles, then slept by the roalside the rest of the night. The li3th we crossed the Chickahominy and marched to the James River, which we crossed on transports on the 14 th, and 110 clock on the night of the $15 t h$ found us facing the enemy's lines in front of Petersburg. Late in the afternoon of the lbh we were adranced against the works in our front, being in the second line, and not directly engaged, but lost some men. Working all night, throwing up breastworks, we were given a day of comparative reat through the 1 ith, but were kept well up to the front, losing occasionally a man. That evening we were put into the front line on the right of the Prince George Court House Road, where we soon became engaged with the enemy. A brisk fire was kept up for some twenty minutes, in which Major

George W. Sabing was struck by a minie ball, which passed throufh one thigh and lodged in the other, from the effect of which he died the following May: At 4 o'clock on the morniqg of the 18th we emerged from this position, driving in the eneny's pickets, and developing the fact that they had withdrawn fron their position of - the night before ta an iuner and stronger line. Taking position along the road in front of the Hare ficld and quildings, we sonn bad a sirong line of earthworks, which we felt capable of defending in case of an attack. Several attempts bad been made by the different corps to break through the enemy's line a various points in the course of the day, but without success, when well alang in the afternoon General Birney, then in command of the Second Corps, received from General Mrade the following orderi :
"I have sent positive orders to Generals Bubnfide and Warren to attack at all hazards with their whole force. Ifind it useless to appoint an hour to effect coöperation, and am therefore compelled to give you the same order. You have a large carpo, powerful and numerous, and I beg that you will at once, as soon as possible, assault in strong column. The day is fast going, and I wish the practicability of carrying the enemy's line settled before dark."

Mort's division was selected as the assaulting olumn, and when the order was transmitted to him he protested rigorously against so rash and hopeless an undertaking, but protests under such circumstances avail nothing. The order was positive, and must be obeyed. Our Third Brigade was designated to make the direct assault, and the other brigades were well in hand to follow up any advantage that we might possibly gain. The different regiments composing the brigade were witbdrawn fromi the lire and brought together a little to the rear under codver of the woods, and then marched back into position in column io an open pine growth batck from the road, so we should just clear the Hare house on the right as we adranced. As we camo into position we found that our regiment not only headed the column, but we had been-made a column by ourselves by breaking up into three battalionsof four companies each, and according, to our instructions, the first battalion was to lead off, athd each sacceeding battalion to follow at a distance of twenty paces. In short, the First Maine Heary Artillery became the "strons column" with which the assanalt was made, for no other regiment advanced beyond the road. It was just as well, for no ten thousand men in column could bave pierced that line, manned as it was with infantry and artillery. The more to adrance the more to be killed; that was all. There was lead and canister enodigh, and to spare From our position among the pines we could see the whole field over which we must pass and the earthworks beyond. We could see the men'behind those workn, no doubt elated hat the prospect of the harvest of death they were about to reap; but the two batteries which were to be serred with double-shotted canister on either thank were under corer. It whs perfactly safe to stand up now. both for Union and Confederate troops, for on our part of the line at least. the noise of the battle was hushed; it was the lull betiore the storm.

And now came the final preliminarios before starting We were ordered to load, and the guns were loaded and capped; then to fix bayonets, which was done. Instructions weregiven not to fire a shot until we got into the enemye works. "Pile up your knapsacks, and leare two men from each company to guard them." ordered the Colonel. The guards were detailed, and the men stripped to light marching order. For the next few minutes the guards were hing with pencil and note book taking down addresses of wife. mother sister or lored one far away in Mane. When called to attention. the men were readily in place. There was a little nercons tightening of belte, and a little firmer arapof the masket as it was brough to a trail. Teeth may have been set a little harder to prevent any sign of trembling which might take posession of as. The order was given, and we dashed off at doublequick time. A shower of lead struck us. but the men insoluntarily pulled their cap visor down over their eves. and with bowed heads adranced against the -torm. The shellis crabhed over our heads for a minute and then the deadly canister wot in its work. The ranks melted and the lines grew thin, but un we pressed. hoping against hope, a few getting neary up the ahatio. when the meder toretreat was given. and such as conld got off the fiedd.

Thus onded the batie of Patersburg, and $\cdot$ the practicability of "arrying the enemy's line" was sethent in the negative. I wish t." aty a word here in rexam to the time we were on the fied. I hate seen it estimated by thon present all the way from ciaht to twenty minutes. Let us figure a litte. The distance from the point of startiug to the enemp's line is 3nol vards. Now, 3n? vards is one noth of a mile. so the distance out and back is two.tifthiont a mile. owr whicha man can easily walk in eight minutes, wing at the rate of a mile in twenty minutes. The average - peod we attaned it the adrance amb retreat must hare shortene the time one-half from that of a walk. so that it is alogether probable that inf forr minutes after starting every man except those disabled was off the field. Our lose in this batile counted up eto killed and died of wombe and 3at wounden: a that of biot. nearly all of which aceured in the assalt of the 1 ath of June.

The Eighth New York Heary Artillery had suthered a lows at (ond Marbor which exceeded ours at Spottsymania, but our loss at Petersburg stathe out as being the heaviest that oceured in any gesiment in ang one hattle during the whole war, while that at spotoylvania stands third in the lint. being exceeded noly be the loss of the Eiglith New York above mentioned. Oar losses from May lath to June 1 sth, a perion of thirty days, had been:

|  | Killert. | Hounicer | Total. |
| :---: | :---: | :---: | :---: |
| Spottsylvania. | 15.3 | $3{ }^{3}+$ | 5:4 |
| Milford Station..................... | 1 | - | $\because$ |
| North Anna ....................... .......... | $\stackrel{\square}{2}$ | \% | $\stackrel{7}{7}$ |
| Hanover Town ................................. | 1 |  | 1 |
| Totopotomy . ....... .......... ........ ........ | 3 | 10 | $3:$ |
| Cold Harbor........ ....... -..... . ........... | 1 | -27 | 804 |
| Petersburg.............. .......... ............. | 240 | 384 | 66.4 |
| Total ......... .... ............ ... | 413 | -7 | 1,17! |

Besides this we hall lost foulteen prisoners, twelve of whom died in Southern prisons. To the gasual reader the results to the regiment of this thirty days of fighting represents the doath of 415 men, and 776 others more or hess disabled for life, but to us of the command and to our families it means more. It means not only death, but individual suffering. Comparatively few of the killed die instantly, and'thofe who finger from a the houns to many months have their cup of suffering filled to the brim.

And what of the lqved ohes at home? It meths sorrow without measure; it means an aged father or mother going down in povertyand grief to the grave for the fant of a staft to lean upon; it means a widowed wife and orphan children; it meany other than literal wounds, which are never healed on carth. The same thing holds true, though in a less degree, in all the ordinaly losses in battle, but this aggregation of death, of suffering and of anguish, becomes terrible to contemplafe on account of its magnitude. Considering the number of men engaged, and the brief time in which this losis occurred, it is without a parallel in the history of modern warfare. -Major Charles J. House, in The Maine Bugle.

## PURCHASING CAVALRY HOISES

Captain Alesinire, Assistant Quartermaster, the officer detailed to inspect cavalry horses in St. Louis under recent contracts, has adopted the very sensible plan of accompanying the buyers through the horse raising districts, with a view to selecting the best mounts obtainable for cavalry. This paves the contractor from shipping a great many unsuitable horses to St. Louis, only to be rejected a great many unsuitable horsse to strival. Some of these bofses boughtin the immediate vicinity of Fort Leavenworth thave been turned over to the squadron of the Sixth Cavalry, without being shipped on the cark, or stabled in city stables, thus avoiding the probability of contracting influenza.

Another innovation, which it is hoped will be so saccessful as to encourage its extension, is to furnish the names of the sires of these horses in order to have the remounts carefully watclied, to determine what colts develop into the bost cavalry horses. This is -with a view to encourage the breeding of mare to those stallions most likely to produce colts suitable for army use. The farmers in
the neighborhood are willint and anxious to raise such homes as are adipted to cavalry service, and it this small beginning is fol. lowed out to a legitimate and suceestal conclusion, the question of remount farms and other projects may be happily solved in a most natural and business-like way, without causing the government to (s) to the expense of providiag establishments for breding and raising horses on its own account

The one serious drawback to the success of this excellent plath is, that while farmers may lored according to the rocommendations made after trial of various colts and produce just what is wanted. the evils of the contract system crop out. for the lowest bidder may refuse to buy his horses in that part of the country at all. It is bilieved that if farmerw are willing to devote special attention to the production of cavalry remonnts. contractors would find it advantageous to buy from them. A failure to respond to the exigences of the case shonh be canse sutficient to ask Congres to aththorize the Secretary of War to antomoce a fixed price cach year for certain focalities, and let all the tamers compete. This woulat educate horse miners very quickly. tior it in matiosty the their intereste to raise ouly what they call sell to adsantage.

In any event the experiment now being tried aves the transprotation of the horses to st. Lanis and back, and leares them for duty within a few miles of winere rased so that they do not have to be acelimated, a process which otten takes a gear, and sometimes is werer ateromplished.
W. H. C.

## HORSES AND BICYCLES

The craze for bicyele riding has assumed such proportions that many otherwise conservative people think they are about to withess the complete downfall of that staunch and loyal friend of the human race, the horse. Such views are inconsistent with the teachings of hintory. and careful thought as to the limitations of the case shonld be sufficient to explode any theories of that kind. The possibilities of the application of steam may have worried the past generation of horse breeders. but there can be no doubt that railroads and steam ressels hare materially aided the horse breeding interests of the world by the rapid extension of settlement and consequent in. creased agricultural developments.

That the raising of common Eastern stock and Western broncos, classed in the markets as "serubs." is no longer profitable, is not altogether a matter for public regret. The best papers in the country devoted to agricultural interests as well as all government publications have for many yeare set forth the disadvantages of breeding worthless animals, but nothing could be written in the way of argument half as effective as the recent decline in prices, and finally the total disappearance of any market for this product.
The prices of horses bave fallen in common with everything else during the past two years. and the large numbers of sucb animals
between the ages of one and fire years in the hands of farmers has been a source of serious consideration to them because of the uncertain conditions of the pear future. In some sections the breeding of mares bas been curtailed, while in many fastances jacks are being used to breed nules for the great cotton section. This refery to ordinary farm honses, for the depression has not prevented the breeding of high class animals in any way whatever.

The establishment of annaal horse shows has shown so many ad. rantages orer the ordinary country fairs, tbat breeders of tirst.chass animals are encouraged to exhibit the very best produced, and pirechasers are alwags at hand for prize animals of almost every clase.

Now that the seal of fashion has been put lupon bicycling the world seems about to resolutionize the methdds of exercise and transportation in order to ayoid the use of horses, One of the cheap arguments is, that bicycles do not require groming and feeding. In all fairness it might be replied that horsemen do not have to carry monkey wrenched, bolts, lanterns, ete. But his sort of argument is puerile. The the lover of the horse fints more ple:isure and entertaipment in the possesrion of a fine animal than couhd pina sibly come to him through the ownership of the most pertiet "wheel." This is aside from the actual riding or driting of the animal, and it is safe to predict that those what are really fond of horses and amply able to beat the expense of bwnership, will not surrender the pleasures iff a vikit to the stable a sallop across the country or a friendly "brush" on the road. howeter much they may be carried away temporarily with the craze.

So far as the army is conderned the advent of bicyele corps comes only as an addition, and for nowise supplatits any ot the components of a well regrihted force. No bicycle corpean ho away with animals for transport servike, and as for cavales, now mure than ever before the eyes add ears of the army. it- composition and duties and the necessity of its beintr are not affected in any way whaterer. So far as aht injury to the sale of cavalry lopses. there has been none. It is a pegrettible fact that the contractors for the supply of cavalry horsed are not able to procure suitable animalo to fill their contracts within any reasonable space of country in the United States. The class of hofses demanded for this selvice is nut raised in perfection on many farms, and even in the great horse State of Missouri the govemment is buying in open market at this State, because the contractors bave failed to fini the number of therses required for remounts this summer. a seation of a lmont pro, found peace.

The possibilities of the bicyele in some directions are acarcely comprebended even by enthusiasts. If the records are absolutely accurate, then the bicyelists liate made faster time than horses run. accurate, then pacing or trotting:

|  | 14.10. | 1: Mif. | : $\because$ Vile | $t$ Mile. |
| :---: | :---: | :---: | :---: | :---: |
| Johnson (bidyelist . ...... | $\therefore 13$ | . 1 it | 1.11: | 1.3i3 |
| Salvator race horse)..... | - | 4.1 | 1.11 | 1.3id |
| Flyine Jih (pacer 1........ | $\therefore$ 为 | .54 | 1.25 | 1.isf |
| Robert J. pacer) .......... | 803 | 1.169 | 1.301. | $\because .014$ |
| Alix (trotter ).............. | . 01 | 1.11] | 1.301 | $\because 0.03$ |

When it comes to long distance ridew, some of the bicercle per. formances are marvelous. One, Holbeis. on July ith, covered 297 miles in twenty-four hours, on roads between London and Peterlor. ourh. In a twenty four hour track race at Putney, England. June
 four hours. Only a few weeks ago, a Frenchman named Hersis covered 515 miles on a track in tyenty four hours. These are certainly remarkable performancer. but they do not exercise any influence as to the permanent popalarity of the biegcle with the pubtic at large.

Physicians will probably diseover a train of minor evils arining from the new form of exercise. but if ased in moderation there can he no doubt that bicyele riding will benefit more than it injures. There are many people who can indulge in the ownership of a bicyele to whom horseback riding is an unkown quantity. To these people are given the opportunity to go out over country roads and beway, thus opening up to them new seenes and incidents hitherto existing only in imagination. The manner of riding for such health and pleasure seckers as these should not correspond to the hump-backed record-breakers any more than a gentleman or lady on horvback should appar like an anxious jockey on a theroughbred.

There is no antagonism between horses and bieveless so long as they do not actually intertere with one another on the road, but the increasing number of bicrelists is apt to make them pugnacious and their demands for right of way excessive, and this horsemen will resent, for roads are kept up at public expense, primarily for public convenience as to transportation. However, homemen may content themselves in peace, for if history does not belie its teachings. the fashion will go out, and there will be thousands of second-hand bicycles offered for sale within a few years.

Then again, suppose halfa million biceles are in actual use in this country, and that each ofte supplanted a borse which of course gis not a fact, this would affect less than five per cent. of the total ? number of horses reported in the I nited states.

Flectricity and cables have diaplaced the horse senerally from atreet car buiffer, and while the farmer in perhaps entited to some smpathy the patrons of streat cars are to be congratalated on the change, and donbtless if the horse conld express his views he would be found arrayed against a return to howe cars.

The cheap buggies and warons of the present day have a ten-
dency to extend the use of horses; a drop in the price of horses Fill, if at all permanent cause thousands of vehicles to come into use as soon as the business recipal is assured.

Stations of britisil cavalry Regiments

the esential wagger of the horse soldier and the attractions of riding over walking. are sutbicient to aceount for the preference Then a superior clase of men enlist in the caralry: they are bette cared for in barmacks, and the whole life has a higher tone than is obtainable in the ordinary infantry reqiment. These are indubitable adrantages, but againat them miat be placed the fact that so many "sentemen rankers" are to be found in the cavalry, and that onlif the very pick and fower of them can hope to struggle through it commission. In certain crack cavalry corps a very larce proportion of the troopers are so termed "army tailures." One must admire the pluck and persererance of the young fellows. who have made up their mitus to obtain a commision from the ranks. hat their chances of success are very slight.

With regard to the intalitry there are certain wefl-known corp bearing historic names whoe deeds are in ererebolys mouth, and who carry with them an atmosphere of marthess and dash. To serse in the ranks of one of the betations is in itedta distinction. But this in itself will mor help the "gentleman ranker to a commionon. All these erack line regment have the same drawbackas the cavaly corps. They are crowded with superior frivates hopinge tor a rise to a commission. It is a diffecult matter to get madresen a sergeant in one of these sober, steady resiments. - o many irreproachable camdidates are there for that position. It seemis, then, that the only way to ohtain rapid promotion from the ranks is to enlist in an infatery regiment with a clody reputation as regards discipline and rencral hehavior. If the …O.S are constantly getting into trouble for drunkennes and dilatoriness it naturally follows that a well educated young dellow of steaty habits would soon be made a sergrant and once a sergeant it would dejend on himeelf to pu-h on rapidy, and to make a name for himedfAlmirnltyant Horse (iumrts Gistle.

## MOL゙NTED URINERLIEN

Much interest han been aroused abmad by the demand lately made in the German Parlament for credits to cover the formation of a corps of monted orderlies. The neerenty for such ath whatization wan thas offeialle brought forward hy Major Wachs: The transmission of meswage has become diffent owing to the introduction of smokeles powder, and is yet more important now than of old. Mounted ordorlies are a necesvity fir use with the intantry. bat cavalrymen could scarcely be trained for the work, nor could they be spared in the numbers required! The Minitue for War state- that - the fuerman caralry ha* no extra extablishment of menand horses available for use with the infantry an monted orderlics. Not a horse or man can now be epared from the caralry. Long range weapons give a new feature to the batter of the future. The roice, which is the usual means for transmission of orders and meswates, is no longer able to carry them to their widely extended destination.

The only effectual means of transmission now is the employment of mounted orderlies. This is no mere fad, it is the conclusion arrived at after the experiences of adtive service.' The result of these representations was a general order authorizing the formation of a detach ment of mounted orderlies to be afached to the Guards Corp:and to the First and Fifteenth Army Corps. The corps of mounted orderlies, it is laid down, is intended to supply for the use of the qeneral staff and of infantry divisions men who have been fully trained in the transmission of orders and information, and in all the duties of outposts and reconnaissiance. 'They nod not,' it is said. 'take altogether the place of caralry attached to a division for re connoitering and screening duties. But they will telieve the cavalry from such duties as escorts to generals and staff officers, to baggage etc., and as mounted orderlies.' The establishment of each detiech. ment, of which there are to be thyee, comprises one captain in com. mand, one lieutenant, two second lieutenants, two wergeant-major. four sergeants, 'six corporals, ninety-six men, and 108 horses. Each detachment will be attached for discipline and instruction to a cavalry regiment in ite district. When a detach fuent is broken up for duty with dfferent stafis, its oficers will be available for employment in their army corps as orderly officers. They will thus be able to superintend generally the working of the men. The nowcommissioned officers will be obtained by transfers or reengagement. from other regiments. The men will be eulisted for three years service, and should possess thene qualifications: knowledge of horses and their management, special aptitude for the work if mounted orderly, good conduct, good eyesight, ability to read and write German fluently. The armament consists of' a sword and a revolver, the equipment includes field glasses and a map case.

As regards instruction, the objects to be ainded at are: Each orderly should be absolute master of his horse, he must know how to treat him generally, and enpecially in case of minor ailments and injories; he must be a bold and clever horseman oved all kinds of country; he must be able to find his way with or withont a map, to observe. rapidly and completely, and to report what he has seen clearly ath in a few words. The three maih points of the instructions are: (1) decelopment of the riding powers of the man; (2) thorough training of the horse ; (3) practigal and theoretical instrnctions in the duties of mounted orderly. Ipdividual training only is desired. not that of men in the ranks. The men are of be practiced in riding alone over all kinds of grgund. They are not to be tatutht any movements or formations in bodies larger that mere columat of route, such as half sections and sections; no inftruction need bu given in the use of the lance. The basis of the theoretien instru'. tion rests on what will be requited of the men on sertice. The points in particular insisted on ant: reports, both written and ver. bal; map reading; principles of reconnaissance of villages, bridses. roads, fords, etc.; computation of the strength of troops of all arms: une of field glasses; estimation of distances; knowledge of stati and other uniforms and badges of rank ;- care of horses, shoeing. ete.

Every man should be able to retder firse ad to his bore in the event of colic, rubs, orerreaches. ete. The veterinary surgeon of the regiment to which the detachment is attached will be responsi ble for this part of the man's instruction: Practical work is tw be carried out in individual expeditions. long rides, attendance at infantry maneuvers. etc. These orderlies are to be distributed among staff and infantry divisions. The permanent attaching of orderlies takes place at the commencemont of general mancurers. for an approximate guide to their distribution it is proposed that the staff of an army corps should command the service ot tour orderlies. statf of a division tive, staft of a brigale four. reximent of infantry eight. battation of chaseurs two. In there numbers noncommissioned officers are incluted.except the two sergeant-majors. who with ten or twelre men and young horses remain at the depot.
$\therefore$ Ender the head of employment care haw wh taken that the orderlies, while perturming all the duties that are expected of them. are not prematurely played out with bondless orders. nor used tor nervices other than those for whith they are intembed. The orderlies, it is stipulated, are if possithe to take part in all maneuver and practical tield exercies of any importance. The chief emptore mert will be to keep up communication during an ation between
 simultanenu-receipt of anomber ly commanderoot units Ot coure. at a short distance from the enemy thene orderlies woald not be went up to the first line. It in further pribied out that they should he
 of cedists when the nature of the erond her not admit of their we.

- In forming a corp wh the abwe pribeiple the cermanarny in once arain -howing to other a practical sip in the development of efticiener. The mose is matally mach eommemded in Gemany
 Bheter and in the Reque de eidalerit. The work ot divivonal are atryon service should he as interestins and a-redumdant in talant

 suroumbing, be more trequent. But exprience in the Framo. Germath Wat showe that, wh the contrare the divinional eavalo.
 in which it was minempled. Brietly the dutien of divisional are
 intantry division to which it is attached, :md to gatad its font when hatted and its thats when fishtins In hather ther will use evers rpportanity of takirg the emems in flath or rear or of setting at hisartillery : will -tace of tank attaks. Will omplete to the fill the effectsit a victory : or it the cane of a reverse, will peotect the retirement by Hank blow- cete. It is in there it. le entimate dutio. that divisional cavalry find- freguent opportuntion tor divtinguinh. ille itselt on service. But thene are obler minor and now bexitimate duties which it is too often called upm to pertiorm, such as encorts

conductors, and orderlies. Experience shows that these minor duties are very apt to be considerged as the more ínportant ones on serrice, and the result is that the force of divisional caralry becomen fritlered away by driblets to these various minorluses until there in little or nothing left of any combakant force. Not do tho driblets effect their work in a manner altogether satisfictory. since their previous training has dono little top prepare them for this particularrole, a consideration which in the case of orderlier is a very impor. tant one. Moreorer, the beat men and the best hotses are. of course. taken for the duties, which leave the inferior ques for the important work of reconnatissance and outpqsts. In the Franco.derman War it was found that many squadrons, eren after receiving their drafts of remounts, etc., were reduced to about half the r proper strensth - not by losses in action, but by the demands made upon them for mounted orderlies, etc. In many cuses their total fighting strength, amounted only to thirty files, and these consisting for the most pirt of inferior men and horses. Their efficiency was further injured ly the withdrawal from them of numbers of officers required to act as gallopers owing to the inability of the untrained orderlies to conver verbal messages correctly.
"The system, while producing puch dangerous disruptions, showno corresponding advantages to balance them. It gives satisfaction to nobody. The staff tind the untrained orderlios very unreliable for their purpose, the squadrons are denuded of their best men anil horses and of their all too few officers, and the duty is mont unpopular with all ranks. There are many ways of courting diansitr. and the maintenance of this system appears to be one of them. The Germans have been the first to recognize the fact and to take practical steps to remedy it. Doubtless other armies wilit follow in their wake. In our own army weque luckily one gtep in advance of most others in this direction, haviag at our disposal a certain force of mounted infantry. This branch will on service take many of the duties that should not legitimately fall upon the divisional cavalry, such as escorts, convoys, and mounted orderlies. fod it must he re. membered that were it not so our squadrons, fleing on a very much lower establishment than those of foreign armies would be unable to find, any combatant force at all of divisiotal cavalry to op. pose to that of the enemy; consequently it is the more incumbent upon us to derelop our mounted finfantry power. To effect this it would be necessary in the first place to increase dur establishment of mounted infantry in men and hdrses; also to give them a special individual training, somewhat on the lines laid down in the German general order above described, to fir them for the dqties of orderlien. and finally to add to their establishment a detachnfent of cyclist orderlies. These latter would be of more use than forsemen in most any country, now that roads exist everywhere, and bicyeles are perfected to stand all the exigencies of service; and not requiring such long and varied instruction as thef. mounted combades, the cyclists might at once, after preliminary instruction in their duties, be at tached to the various district headquarter staffe, and so obtain
regular practice in their work 10 peace and at the satoe time re. lieve men who are at present taken away for the duty from their proper regimental work. The dutic- woulid thas be performed with greater efficiency and satiofaction to all concerned, and the cavalrymen and horses would come again under the hand of their ofticers to be properly trained in their legitimate work instead of-a- a certain aquadron commander was heard to describe it - being used up by an infantry general in givinga fintition-ahow of importance whimi.


This recalle to mind the cavalry experience of the civil War. When notwithstanding the recommendations appeals and wamings of experienced cavalry othere the real object of cavalry wan ignored or misunderstond and this raluable arm was trittored away. Ietails for body guards. peroonal encorts. numerous orderlies. ate tinally had to be curtailed in order to ohtainang service commenta. rate with the expense of the numerous cavalry organizations. Such lemons cannot be too deeply impresed upon the minds of all ofth. cors in noder that they may acod similar fate upurariving at hish command-

## THE CAVAIRY MANFOVFRS

 *uperintendence of the Inopector Gemeral of Cavalry Majomenoral
 of six resiments. The Inspector fieneral commented his work of supervision by a clove in-pection of each regiment.

Many of the reximente that are bow nut for mannever- wor similary emplowed las yar, and it is ony reawnable that point either of reemblance or difference from the appearance and steal ne.. in the field thi, year as ewmpared with lat should be lowed fir. . To he frank. "ay the corre-pontent of the Morning Pint. - it must be aid that the work oo tar as it has gone indicate that the - quatronsare nether better mor worse than they were a yat aso. The same fauts as were apparent in the early days of the Berkshire maneusersare evident now." General lack resolved be. fore asoming command to wise the brigates a protracted period of stealying drill before entering upon the extention of abemes or of artions of opposing force In the fourth weck, howerer. it is in tended that a reconnamance shall he made which will extend from Aldernhit to the south coist

The Duke of Cambridec will : Lerks force on Wedneday and Thursday next

The caralry division drilled for the first time with the Roval Horse Artillery on Thursday. They were out from9a. m. till nearly 1 p . M. the heat being rery great and the dust blinding. Special attack morements were carried out with the machine gun section of
the Fourth Hussars，and they proved to be no unworthy rivals of the Royal Horse Artillery，by the workmanlike and smart manner the gans were brought into action．The details of the Third IIus． sars left bebind were formed into a skeleton or flatr dirision，as it is termed at Aldershot，and drilled during the eatfier hours of the morning．On the conclusion of the maneurers，probably about Sep． tember 9th，the Household Cavaliy return to Wiulsor and London． the Serenth Dragoon Guards match for Norwich the Fourth Hus． sars move to Hounslow，and the Eighth to Leeds（with a squadron at York）－－Army and Vavy Gazefle．

THESEQUGL OF WAR．
It has been frequently urged fhat where the bullet or the sword kills its thousands，diseave and ifsanitary conditigns will slay their ton thousands．At the present kime the victoribus Japs，who so easily defeated their pig－tail opponents，have now to contend with a far more formidable enemy－pholera－and they do not like it． The last number of the transactions of the Imperital German Board of Health states that＂according oo official intelligence，dated Junc 2d，cholera is spreading in a most alarming way anfong the Japanene troops stationed in China， 500 fal cases being reported to hare occurred in the guard regiments glone at Port Arthinr．It is feared that the impending return of the troops will cause a further spreal of the disease in Japan：A contqualation trom Seoul，dated Juig 17 th，states that the cholera has proken out in Corea．＂This intui． ligence is of interest，as it tends to confirm the observation that the seat of war is a fruitful ground or the propagation of disease．at，i that cholera，in particular，develops in places where war is beins． or has lately been carried on．The apprehensions that the diseate may spread in Japan by the retorn ot the troops are abundanty warranted by the history of choldra，as shown by the facts collecteit by Herr A．Harsch．When cholera made its firp appearance iat Europe，in 1830，it was at once perceptible how fmportant a part was plaged by war in the spreat of this disease．It became pres． alent in Russia in 18：30，where it Lad asserted itself in spite of the hard winter that preceded the gutbreak．The Ikusso－Polish Wit took place in that year，and an dutbreak of choleta was the sequel to the march of Russian troops inlo Poland．From there the dise：ane passed，carried by the waters of the Warsaw and hatiseh，and in a very short time was raging in the Prussian provinces of Posen an， Silesia；then，through the Oder，it penetrated intolthe provinces of Brandenburg and Pomerania．In the following kear it was seen that this wae not the only way in which war aids in disseminating cholera．In May of 1831 some Russian warships arrived in Dantzior Harbor with several cases of chidera on board．Which tansed the inhabitants of Dantziy to becomp infected，and the disease spreat thence by way of Elbing to Kbnigsberg，and to the dintrict of Köslin äd Gumbinnen．It has been clearly proted that choleras

Tas introduced in 1849 by Austrian tropp－into Vienna and in 1 stit by English trops from Malta into dibraltar and this in times of peace．The most intructise observations．however are those made during the wars of the year 1siti．A few canes of cholera had eccurred in Austria in the summer of 1san at Fiame and Tricste but in labi，starting from the Bubovina it aprean ower the whole of the Austro－Mungatian monarebs，those provinces suffering most in which the principal event－or thi war inat been enated．Thas． from the province of Moravia 50．man ean were remoted：froms
 extabli－hed that the chobera wan then introdured into Prussia and saxony from there The intuene of war was dearly percepthbe
 of all the south Gevmans：ater，whice a－the perthene wa－coperally valulent juat in the diotrict ot Midlle Framonia A－chatembery． Suabia and Xeuenturg it may ber－ately affomed that wat was



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 What like that of our owt onsertion atate to the Fobleral diovera．







 rivals of the Prawian diand which，thrthermene is not herowary
 los．

THE •AVALRY KOCIFTY OF THF ALMIF OF THF<br>rNITED STATE<br>\section*{mintitition．}

1．The name of this A－womation mall he ．The Cavatay society of the Armife of the IMted statem．

2．Ans honorably diecharged officer or soldier．who at any time has served in the caralry corps in the satid armies，shall be entitled to membership in the society
3. The object of the Society shall be the promotion of kimdly feeling, the revival of old associations, and the collection and pres ervation of records of the serviaes rendered by this corps durinir the "War of the Rebellion.'
4. The officers of the Society shall consist of d president. seren viee presidents, secretary, treasurer aud historiath, who shall be. vice presidents, secretary, treasyrer and historiath, who shall be.
with the exception of the historfan, elected at each meeting of the Society.
5. The duties of the presided shall be to presjde at the anmual meetings, to call extraordinary meetings of the suciety in case ot necessity, and to issue such ordens as may be necessary far the woud government and control of the saciety.
6. The vice-president shall efercise the power of the president in case of the absence of that otficer.
7. The secretary shall keep a record of the minutes of the Society, a roll of members, and pethorm all duties ulually pertainius to an office of such character.
8. The treasurer shall have control of all funds. to bee expended only on approval of the president, and shall render an qucount it all disbursements at the annual meeting of the Sociuty.
9. The historian shall prepare for the use of the secretary at history of the cuvalry carps, and of all maters con ected therewith of interest to the Society.
10. There shall be ar mandard bearer, who shall be an officer of the Society, and who shall be appointed at each anpual meetiner hy the president. The duties of the standard bearer shall be to hive charge and custody of the flag of the Society, and carry it on all occasions of ceremony when the \$ociety shall be pdesent.
11. There shall be elected anuually an assistan secretary, who shall perform the dutics of the secretary at the annal meetings of the society in case of the absencelof that officer, and whoshall perform sach other services as pertaif to the office of socretary as may be required of him by that officer

P2. There shall be elected anhually an adjutant.general, whose duty shall be to assist the presidght in all cases where the Society is formed for parade, and to act las an aide to the president, and perform such services as that officor may direct.

> BY-LAWs.

1. The entrance fee of the Sodiety shall be one dollar.
2. The annual dues shall be ode dollar.
3. The president shall deterrine the time and place of each annual meeting, being governed is his selection thereof, as far as practícable, by the time and place of the mecting of the Society of the Army of the Potomac.

## next mideting.

Place of meeting next year, as fixed by Society of the frmy of the Potomac, is Burlington, Vt.; date not named.

BAHEE GF THE SOCIETY







RE(ORD OF PROMEPDNA,
 Rempment ot the Combecthout National Guards.and was called to orifer lis the president. General Josituas P (iname.

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While the number of easalryment in attembatce at the reunion was larece than usual, abl tilied the commondous heatratarter

 rabls during wur service waked us in the marninge directed athd
 -iated as spoben words. .put wat the lisht, it our -helter tent-at night as we pulled oft ont lemts as the only umbobing act tor the misht. In ficlol. in batte abd in camp. the bugle inspired and controlled us.

Wowever. our fag was still there, and (aptain Bofas, ome standart bearer. It is mot semerally known by the Cavalry Society what rich asociations cluster round our beatutifal silk banner. as the epecial witt of the great cavalry general. SHERIDAN. and that the name of our society, which has the appearance of a mishomer. was tixed in its present form because Enerionsis large heart wanted to encircle every cavalryman in the Inited states, especially desiring that when the Society of the Army of the Potomac met in the western part of our country the eavalry boys in that section should (oome in ats members and participanta in our reunion.

The resolutions of the Cavalry Society presented by General Savtereb at the meeting of the Army of the Potomace, in regard to a monument to the soldiers from the regiments of the regular army participating in the battle of Gettyburg. received a unanimous vote at sucb meeting, and Senator Hawiey, who sat near General Sawtelfe, stated that he would give his personal efforts to secure the passage of an act for the purpose desired.

The cavalry reunion lacked some of the minor incidents which added much to the enjoyment had at Boston in 1893 , but the impress New London left on our memory was most happy, and the pictures of the place where Arvoid stood appropriate in its sepulchral relations, and the remains of the old fort on Groton Heights will enable each risitor to remember the historical war facor of the city, while its memorial library, and the most interesting of any relic of the past, "the old town mill." with its rocky fream and trees as they existed in their primitive form of 1 tiñ. will recall its literary and artistic aroma. - Maine Bugle.

## DIARY OF LIEUTENANT W. SW. BEY

The diary of Lieutenant W. Swabey, R. M. A.fin the Peninsulat edited by Colonel F. A. Whinyates, has been appearing for some time in the Proceedings of the Ftoyal Artillery Instltution, Woolwich. It furnishes plain reading of every day soldier life, and impresses one strangely in comparison with the grandiloqugut and egritictical language of most French writings of that peridd. and of which there has been a goodls purfuit during the Napoleomic revisal. There is but little attempt at explanation or discustion of campaignor theories as to the conduct of the war. although an occa-ional outburst shows that all parts of the machine do some serious thinking once in awhile about their supeniors

A fewreattered quotations iffill suffice to show some of the difti culties attending service at that time in the spanish and Portugnto. Peninsula:

12th December. We are now put tro our wits end about furaire, and the wit lages being all exhaustet. we have tijook for it in the monntann. where it is so well concealed that it requires muph lalwor to tind it, apil is a very precati as supply.

25th February. Marehed to Caphinh, part of the roal being very hilty we got in, however, by four aclock., (ireen forage was al we could procur.
efth February. Aareher by ágod route to-dtalayce still green iorase We haked on the road for about ten minutes by a rie feld; the men w.t.


Loth Februarg * Our route was to Samalas. bht there not init room for the cavalry and ourselves there, we proveeled th illa elha, whath I may call the mostmiserable place in Porthan : no dount wor stables. atid our billets harily to be called covering, the night ratiny, and no ioraze, er-wn here, which, when I was at this plade before was ruinemand empty. I wat
 cals lying sick in their beds, cript oudt to the sontinel to barnot me. I lind
 musket and grappleid with him till I had explained that I did not want t. phit in the horses; he then let me go with his bayonet close th my breast. I hit him next morning, after threatening to cane him, in cutamy of the min:tia captain who had charge, who promised he shomh be purdished. Nod, dati: if I could have drawn my sword the ratfal would have madefoff, but lieing al.a.e and haying an manr about me. I didpnot dare to try the eqperiment.

تth March. Spent my day at the troop stables ended woring to cure the sore backs, of which, in this march, Te have more than oq share.
sth Brarch. Went in the morning to see Sir Stafletoy Cortos inspert the Fifth Dragoon Guards. Thecondition of their horses far exceeds anythinz 1 have aren. It must be observed, howeyer, without wishng to detract from their merits, that they have been lying in idleness at Thrrar all the winter. Whilst we and others have been on sbort forage and taking fatiguing marches Their appointments and discipline, bowever, sufficiently rove that this goc.l Tortune is not the only cause of their present etfective stak

18th March. Marched at 5 o'clock, in a most tremendous rain, and over took the dragoons at Santa Martha, where only last niget : 300 French were turned out. The second day the horses have had no corn

2oth March. Rain all day. Our 中en having above alsague to go for for age, wheat was cut, no other datable for the horses being found. Occasional firing heard from Badajos, and various reports in circulat on.

21st March. To my inexpressibla joy there arrived for our use this day seventeen horses, most of which come to my division; the number of horses
that hase died in it sufficiently proves that it is alionlutely uselese to send ohd must be exceedingly hard.
sth Aprit. To-iay I resolved to give up the idea of being settled even for moment; for, whist our horses weregone a league for forage, an oriler came march tor Ture thenentral two leacues. We arrived there in the evening without an atotu of furag
26th July. This evening at a oclonck we went out on picket, which ! enemy I consider it a harassing order.

15th October. We lost this week one tmombardier and three gunners, who lied from a fever brought on by shere weaknews. I read the funeral eervice over en me of them, and was surprised to we with a hat little reverence or we the supermitious, ignorant :paniarils witnessed the ceremony, and with what little derency they lehatert

Campaigning under such eircumstances was no doubt attended with a maximum of dincomfort; the dangers trom sickness, arising principally from imperper fomd and alternate billeting and exposure (1) the weather. Were quite as great as those to be apprehended from the enemy. The constant ehange of masters caused the country people to fear both English and Fremeh. In one instance. while the British troops occupied a vilhase the French made requisition upon the aldalde for provisions. stating thes would come for the supplies and the demand was actually being complied with by the prople when discovered by the troope occupring the place.

Altogether, the diary is most interesting reading, and is com mended for its simple, manly record of a soldiers daily life.

## RILEA OF THE FORT I.EAVFNWORTH POLO CIUB

1. The eround- to be about 7 . 50 fied loner by 500 feet wide.

2 The roal ponts to be twentyfour feet apart, and lighe erough to breas if collided with.
3. For mateh games the height of the ponies must not exceed fourteen hamds one inch. For practice games. at the discretion of the clab, larger ponies may be unt No ponies showing vice io be allowed in the game.
4. In mateh games the regulation polo balls aud mallece to be used.
5. Match games shall be for four periods of fiftern minutes each of actual play, with five minutes rest between periods, and three minutes rest after each goal is made.
6. Each team to choose an umpire, and if necessary the two umpires to appoint a referee. whose decisions shall be final.
7. In all mateb games the number of players contending to be limited to four on a side.
8. In match games the game, in case of a tie. must be played on until one side obtains a goal
9. The side that makes the most goals wins the gane.
10. If the ball is hit abore the top of the goal posts. but in the opinion of the umpire througli, it shall be considered a goal.
a match in on.
12. There shall be a captain for each team, who shall have the direction of positions and plays of his men.
13. No person, players, umpires and refirce excepted. shall. under any circimstances, be allowed upon the ground during the progress of the game.
14. It is forbidden to touch an advernary, his pory or his mallet with the hand or mallet daring play, or to strike the ball when dis. mounted.
15. A player shall not puth|s stick over his adrersarys puns. either in front or behind. In riding off or hustling a player whall not strike with his arm or elbow.
16. A player may bustle or mat out an antagnitist. or interpone his pony before his antagonist; sop as to prevent the latter reachinis the ball; but be may not cross armother player ill possessin! of the ball, excopting at such a distance as to avoid all risk of a colliaion
17. If two players are ridiut from different (inections in $^{\text {a }}$ hit the ball, and a collision appears probable, then the flayer in posses sion of the ball (i.e., be who last hit the ball, of who is coming in the direction from which the ball was last hit, must be siven waty to.
18. Foul riding if careless and dangerous horfemanship. ath lack of consideration for the safet| of others.
19. In case of a toul (viz: infingement of Rules 14, 15. 16. 17 and 18), the umpire shall stop the game, and the side that has been fouled may alaim either of the following penalties:
(a) That the umpire pward the side fouled a halt goul
(b) A free hit for the side fouled, from where the ball was when the foul took place, none of the opposing side to be within ten yardof the ball.
(c) That the side which caused the foul take the ball back and hit it off from behind their own gol line:
20. Whenever a player, either accidentally of intentionally. knocks the ball behind the line at the end at which the goal defenled by bis side is situated, it sball ble deemed a safety knock.out, and shall acore one-fourth of one goal gainst such playefs side. When the ball is caromed out, or kickedifout by a pony, it shall not score as above.
21. The game to begin when the ball is thrown between the contestants, who shall be in line facing each other in the midhle of the field, anless it is agreed between the captains to charge: the clarge is to be from a line thirty feet in front of the gaal posts. When the signal to charge has bepn given by the geferee, the firat and second players must keep tof the left of the bsll until it his been hit.
22. In case of an accident to a player or a pony, or tor any other reanonable cause, the referee may stop the game, ahd the time so lost shall not be counted. When the game is resumed, the ball shall
be thrown between the players. Who shall be lined up at the point at which the ball stopped but if the same is stopped on account of a foul. the ball is to be thrown ith at the piace at which the foul oc. curred.
23. When the limit of time has expired the gate must continue until the ball goe out of lomals, or a goal is made, and such over. time shall not be counted.
24. When the ball woes wut of hounds at the sides, it must be thrown in from the phace at which it went out by the referee. between the two sides. which shall be drawn up in line facing each otber. When the ball goe out ents. the side defending that goal is entitled to a knock-out trom the point at which it erossed the line When the player havime the knot out hases unneceseary delay, the umpire may throw a hall on the field and call phay. Noopponent shall come within tity fect of a player having the knock-out until the ball has beed hit.
25. Ends thall be changed atiter erery mala or it no goal has attained, after half time. The hall mant wor or chear of the line to be out, or to ecore a goal. It the badit is damaged, the umpire must stop the game, and throw in a mew hall at the place where it was broken, and at risht atriges the tenget of the ground.

2b. Should a players stick he hroken. he must ride to the place wherenticksare kepi, and take ore. On macoont in a stick to be brought to him.

27 . In the event of a stick being drobped the plater must pick it up himself.

Lefetenant s. L. Patermos, Royal Dublin Fusiliers, recently met with a fatal accident while playing polo at Quetta. His pony tell and rolled on him as the revalt of a collimion with another pony. and the young officer received such serious injuries as to cause his death woon after being remosed to the hompitat.

Apropos of the intence love that caralyy horses hare for music. a correspondent writes that when the Sixth Dragoons recently Changed their quarters from Manchester to Edinhurgh. a detachment was billeted for the night at Thirsk. where a mare belonging to one of the troopers was taken so ill as to be unable to prgeed on the journey the followius morning. Two days later, andher detach. ment of the same regiment, accompanied by the band. arrived. The sick mare was in a loose box, but hearing the martial strains, kicked a hole through the side of her box and making her way through the shop of a tradesman, took her place in the troop bufore she was secured and brought back wo the stable. But the excitement bad proved too great, and the subsequent exhanstion proved fatal.-Admiralty and Horse Guards Guzette.

Laectenant. General Keith Franer, (. M G., Inspector Gemeral of the British Cavalry. died July 31st.

## BOOK NOTICES AND EXCHANGES.

Riders of Many Lands: By Lieutenant Theodore Ayraulk Dodge New York. Harper \& Bro
Somewhere the author expresses a fear that his title has been given amiss,-that it shoold have been Yarns of a Gilgbe-Trotter.and Incidentally Horse Flesh." Such a summing up heips us to get an idea of the plan of the book, although it is not entifely just. Col. onel Dodge adopts the novel plan of visiting nearly every country in the world for facts, and whenever he sees the riddr of anything from a bike to a bullock, he gives his impression in a very en. tertaining way. And then, for fear that you mas tire, he adds many bright excursions into other tield̆s,-from after dianer speeches of Boucicault, to the dancing of Geisha girls and the virthes of old maids. In this way much space is taken up by matters somewhat foreigrif to the subject of the book, but the reader never regretn it, becauseit adds a good bearty seasoning to the whole

This book will surprise a few of those who have a mania for foreign ideas. As an instance, it gises the jutgment of a perfectly competenteritic as to the relative value of our own and olyer type. of cavalry. His conclusion is, that although we may not be so perfect in drill and in the maneuvering of masses an som others, we are uway and abead of them all in diatance riding and io the ability to do heavy work without losing our horses. As this ast elgment of edacation is the "daily bread" of tavalry, and as the caralty battle is the most uncommon incident of modern war, we may fonclude that the tradition of our short sixty years of A nerican cavalry his. tory are well worth preserving. Colonel Dodge has gathered a few. a very few of the performances of our troopers in border warfare. Such as they are, and they do not seem to be the mbst notable examples, they easily stand ahead of similar efforts in other services. Let us rake up more of the reports of scouts and radds in our owin country, and we will find them full of the very best hind of work.

Upon an English style of riding the author has some wise reflections. It is true that John Bull has an easy eminence in polo - playing, in tont-pegging, in fox hunting and in racing, and thi probably explains the fact that he bas fastened some of his cavalry
notions on most of the armies of the world. Many people lose sight of the fact that the riding of polo plagers. jockeys ar fox hunters is not good form for cavalry, nor fir any man who rides for pleasure, or with the purpose of covering a long distance on a single mount. Thus the cow-loy may be good at rough riding, but he is strictly a poor horseman, and ronsequently may not be a model for cavalry.

It will surprise some people to be told that an Euglishman does not know a saddle horse. This animal is an American production. He is the most perfect crature born without atsoul, and thrives where men are brave and women are divine. This animal is the product of the bad roads, the tine stock, and the sport-loving propersities of the land where he lises. The Southern genteman rider. on an pastraited horse. with a rather long stirrup, is the best picture of man and horee combined that can be found in any land. As a model for cavalry, uf for those who ride for pleasure, his style is best suited and more casily adopted than any other.

Thee English ntandard. which excludes the rack from the saddle. gate. and calls it "artiticial," is shown to be wrong. The rack. amble and running walk are natural to three fourthe of all animals used for saddle purposes in the world. but only in our southern States are these gaits studied. improved and bred from. Further. more, no race of natural riders on earth rides at the trot, but whereever case, handiness and ability are anked. thene socalked artificial gaits are used. Not that we would exclute the trot - but read the book.

Further notice would perhaps trespass too much on ground which the author should reserve to himself: The whole book is bright and instructive
E. ․

## Proceedings of the Brford Memobial Asmociation

This pamphlet contains the oration and several brief sketches in the shape of personal recollections of that most distinguished soldier, Major General John Buford. Through the kindoess of (ieneral Wilson, the Caralry Association was furnished with a copy of the oration, and it appears in this iswue of the Jotrsal. A portrait of (ieneral Buford appeared in the first volume of the Caviary Jotre Nas, with an article from the pen of the distinguished President of the Association, Major-General Wesley Merritt.

The pamphlet is very handsomely printed and contains four excellent illustrations. It reflects great credit upon the taste of Gen. eral Rodenbough, the Secretary, upon whom the preparation of the pamphlet devolved.

Fo young officer can read this little bonk without a feeling of patriotic pride. The history of Bufords cavalry at Gettysburg furnishes one of the most thorough proofs that it is to the Civil War young cavalrymen must look for models, and not to the grand maneuvers of Europe, where the shock of charging divisions will ever be of the first consideration in cavalry training. W.H.C.
"The Love-Letters of a Portionese Nis." Cassell Publishing Compaiy. New York.
This little book contaime five letters written by a young Portu. guese nan to a French officer helonging to the troops which had been sent by Louis XIV to aid in the war against Spain in litiaafter his return to Paris. This sieems a long time Aaro, bat the letters have been preserved and have appeared in quany ealitions in France, where they have been regarded as almos untivaled. An incident related in the Swabey diary, relating to and oceurtence over a hundred years later in the Poninsula War, of somewhent smala character, shows to what extremes the warm hearted madens of the Peninsula went in welcoming their foreign allies. It is a tale of dispelled illusions, broken enchantmenteand bitter reality.

## Horses, saddies and Bridees.

The following notice of Captnin Carter: "Homes, Samlles ahd Bridles" appeared recently in the Journal of the Robal Cinited Nirri., Institution (British) :

This work, though primarily addpted to the neveds of thi Am.riwn sur. rice, contains much which will be wrleoned by British davalry bifiowr. iur Within a comparatively small numberpo pages the author hes brought t"sell.er and - facts which otherwise are only to be obtained liy , rollongth rusiarit and comparison in many different languages and works.

The cavalry of the United States pary be numerically deak, hut there can
 our own cavalry are frequently at alork under very similar ones, a careful study of the means by which their effidiency is obtuined canhor, be troostrongly recoinmended. At the same time the book requires to he real with cantinn, for as the Americans are estentially a practical race, lese a terntion is pail by them to the breaking and gehooling of young horse's than fr advisable in casalries where aboolute precision in mapeuver and coliesion on the charse form the chief reason for their existence.

In the chapter on the election of remounts, the following excellent com. mon-sense remark should be noticed, "Some hones apperently fiond and without vice or fault, will still be far from lesirable cavaly horeds; a rouph animal passed into the ranks will caudi nore difeontent than be is worth."

Under the heading, "Age of Horsif,", some interesting fifacte are recorded. The oldest horse of which the putipr had personal knjwledge is "Belle. of thirty-five. A Mexican army nulf, which died in iket, coulid be traciel back over forty years.

The chapter on the "Endurance of Horses" is of expricual int.rest. giving many details of the waste of hof bes during the Civil War, ami the st-ptaken to remount, the army during ipe continuanee; the drganization of the" daily waste of horses throughout the year 1shis-4 was 5ind, i. s., the rate wilapproximately .5 per cent. f this is hedvy. but compares ofry favirally with nany European experiences, notably with the French (ifand Aray in tho. mareh to Moscow.

Seats, saddles and bits are all treated with clearness and practical know. edge. Though the authnr's remarks gontain nothing whiph in principle at
least, is not embodied in our own regalations, his views ape stated in such manner that the reason "why" is in lall cases made sutfictently clear. This
in a point in which "regulations" nectsirity fail, an! hence in the absence if popery guation taderer, tat hatite are apt to arime, which appar th he in accurdace with the eetter if the rephlation, hut are in reality entirely practer is often the mest difficult task for a young offieer thrown on him cow resoures and a mure valuathe ghine to ernable han to tram his jugment th ant on his onn responsibility in these circumstanes, it would be bery ditticult to discover.
The Iviteh servite
 2 A Sindian Brisand b T H Farnham a Commodore Comber. by B. S P Conner t. Chronimeo of Carter Barracks by Coloned

 Brinkerhoff. Internatomal Law in the War Between Japan and
 1. (i. Adee 4. Recollection of Recombration hy Captain Chenter.
 Schor and Army Competite Examinatome hy Henry Kollys. Scptember 1sas 1. The Army of the Khodise ath the Proment
 iv. E Montarne :3. The Eapoleonic Revival, be Wilder Grahan. 1 AIferary venture ly T Farnham. I. The Demonetization




1. A Military Muscum for Simba by Captain A. Wather Twemty.
 firound tor the Indian Xome he colonal M J King Harmon. 3 Vinual Sismaling. by Lieutenant F. HI ligno. First Infantry. Hy derabad combinfont t Nute- on Taction and Organization of
 Rajput- - Briet Acoonit of harir Origin. Religioun Customs and History, with Xon Resardin: their Fithese tior Molern Military service by Lientenant A. II Binalog. Admatht VII B. I. B. Swords.

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July. 1mat: 1. Discipline (tirathomathe mention), by Liellen. ant Steele $\because$ An Antiquated Artillery Ormanization, Captain Wapher 3. Martial Law and sucial Order by Captain Chester. 4. Recruiting abd Training of the Company by Lientenant Miller
5. Our Artillery in the Mexican War, by Lieutenant Van Deunen 6. A Technical Criticism, by Lieutenant Brooks. September, 1spa: 1. The Army and the Civil Power, by Licutenant Wallace. 2 . The Story of a Reacue, by Colonel Carpenter. 3. Sea Cpant Artillery, by Captain Reilly, 4. Fortifications and Fielil Operations, by Coloncl

- Habert. 5. Our Present Artilleny Armament, by Lieateniat Berk. himer. 6. The Man Behind tha Gun, by Captain Walker. 7. The Bicycle as a Military Muchine, by Lieutenant Hill. 8. Martial Lan in Ceylon, by Lieutenant Carbsugh. 9. Recruitin! and Traninis of the Company, by Licutenant Miller.

Jotrnal of the Royal artillert Instifition.
July, 1895: 1. Abstract of the Proceedings of the Fifty-eighth Annual General Meeting of the Royal Artillery Institution. $\because$. The Training Together is Peace Timethe Garrison Artillery Forces, ete, by Captain E.G. Incalls, R. A. (commended essay, 1spj). 3; Same hy Lieutenant-Colonel O. W. White, R. A. (commended esnay, 18! ${ }^{\circ}$ ) August, 1895: 1. Instruments for Looking Throligh Thick WallWith Small Apertures, by Captain A. H. Russell, Ordnance Department U. S. Army. 2. An Account of the Relief of Chitral Fort fiom Gilgit and the Siege of Chitral, by Lieutenant C. \& Stewurt, R. A. 3. Diary of Lieutenant W. Swabey, R. H. A., in thetPeninsula, con. tinued).
The Penngylvania Magazine of History and Blography

1. Jobn Betchtel: Hie Contributions to Literature, etc., by John W. Jordan. 2. Jonrnal Kept On Board the United States Frigate "Constitution," 1812, by Amos A. Evans, Surgeon L. S. Navy. by A. W. Evans. 3. Washington After the Kevolution. 17xt-17an, by A. W. Evans. 3. Washington After the Revolution. $17 x+1 \pi 9$, by
William $S$. Boker. 4. Extracta From the Journal of Ideutenant John Bell Tilden, Second Pennsylrania Line, 1781-178\%, by John Bell Tilden Phelps. 5. Defenpes of Philadelphia in $17 \% 7$ by Worthington Clauncey Ford. 6. A Register of Baptistus. Marriages and. Deaths, $1772-1822$, by Rev. William Rogers, I). I). 7. John Roberts, of Menon. 8. Recollections of Philadelphia Near Suventy Years Ago, by Benjamin Kite.

Journal of the United States Artillery. July, 1895.

1. Experiments with a New Polarizing Photo-Ghronograph, by A. C. Chrehore and George O. Squire, First Lientenant Third Artillery. 2, The Development of a Naval Militia, by Commander Jacob W. Siller. 3. Extracts from the Journal of Sckond Lieutenant Jacob W. Eiller, Sixthacterfom the Journal of Scond Lieutenant
John Wilkinson, Sixth Artillery. 4. A Proponed Modification of the Field Gun Sight, by Lieutenant Elwood E. Gayle, Second Artillery: 5. Coast Artillery Fire Instruction, by Lieutenant John A. Lundecí. Fourth Artillerg. 6. Light Artillery Target Practice, by Lieutenant Ernent Hinds, Fourth Artillery. 7. German Fool Artillery with Horsed Guns (translation), by Lieutenant T. Bentley Mott.











The Maine Briole. Imly, luas






 Vewhall - The Gavary Subly uf the Armies of the Euited States.

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The ditems Manervers of liof. Alotria. Mrviary. France ani fiermavy No. ii. Publications of Military Information Division. War Department.

Tife Iowa IIntoricat. Record. Inly. Isiza
The Fioux Indian War. National Sumer, The Indians of Tama county.

Standini; Orders First Corps of Catets. Marsachtemtts Volen teer Militia. $18!95$.

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## JOURNAL

OF THE

## UNITED STATES CAVALRY ASSOCIATION.

GENERAL MENRY LAAVENWORTH

By Mator tigorgif h. D.AVIS. I. A. Ahms.

TT is a striking evidence of the rapid march of events-rather than years-in the [nited States, that an officer of the army, who died but little more than sisty years ago, after a carcer of unusual achievement, should have been so absolutely forgotten that the mention of his name calls to mind a military post. itself so long established as to have a hintory and traditions of ita owin, but gives no suggestion of the lite history of the distinguished soldier whose name it bears. Not only is this the fact, but I have been unable to find, after considerable inquiry, that there is a single officer now living who knew General Leavenworth, or who even remembers him as an officer of prominence in the army at the time of his entry into the military service.

Uncivilized races, more tenacious than ourselves of the memory of their great men, hand down from generation to generation the names and deeds of those whose endeacors in behalf of their fellows have been deemed worthy of remembrance. It shall be my purpose, therefere, within the narrow limits of this: paper, to attempt a similar serviee in behalf of an officer who, in lis day, contributed not a little to fix the character and determine the traditions of the
army, and whose carcer is well worth a more extencive and elatwite study.

General Henry Leavenworta was born in Cqnnecticut in 17:3 - the year of the treaty of Parit. While still a lad he removed 10 Vermont and, before the fate of the dixputed turitory had been settled, again moved ko Delaw fre county. New York, where he grew to manhood, and acquired fuch education an was possible in a new and unsettled country just qmerging from a fong and exhansting war, and as get unprorided frith the most cementary institutions of learning. But little is fnown of the cir-umstances of his boybood and youth. His choice of the law an \& profession gives some indication, not only of the bent of his mind, but of bis thoroughness and steadfastness of purpose, and of a desire for solid attainment which could have been satisfied in no other way, in the new athl undeveloped country in which bif youth and eatly manhood were passed.

Immediately after being called to the bar he formed a law partnership with his preceptor, Gederal Roor, and entered apon the general practice of his profession at Delhi, in Deldware county. It the outbreak of the second war yitli England, he had not only buitt up what was regarded, at the time, as an extensive and successful practice, but had acquired such ponsideration in the community as to be selected to command the company of intanty that was raised for the war in Delaware county, fo the winter of $1 \times 12$ and $1 \times 13$.

Captain Leavenworta's conpatiy was assigued to the Ninth Regiment of Infantry and attached to the brigade commanded by General Winfield Scotr. He todk an active parf in the campaign of 1813 in northern New York. \&ind was promot d to the grade of major in time to participate, as a regimental compander, in the ithvasion of Canada from the Niagara frontier. H\& was engaged in the battles of Chippewa and Lundf's Lane, and greatly distinguished bimself on both occasions-so gfeatly, indeed, as to have received the brevets of lieutenant-colond and colonel in the army for gallantry and good conduct as a fegimental commander.

At the close of the war Colphel Leavenworfi obtained, leave of absence and served for a time as a member of the Legislature of New York. At the first redugtion of the arm he was assignen to the Second Infantry as a major and stationed at Sackett's Harbor. In 1818 he was promoted lieutedant-colonel of the Fifth Infantry. which he joined at Detroit and codducted to the Fadls of St. Anthony, where be established a military plost at the site of the present Fort Snelling. On the reduction of 1 get he was transferred to the Sixth

Infantry - under the rircumstanes almos the equiralent of a pro-motion-and assigned to the command of the troops stationed at the Conacil Blaffs, on the st. Peters Riser, in Iowa. Fimm this point during the summer of 1 se? 3 be conducted an expedition against a band of hostile Arickaree Indians. Who, in ath engrigement lasting from August gta to 13 th. Were so sererely handled as to be willing (6) make an emduring treaty of mace. For these services Colonel Leavenworth was vereially mentioned by Gencral daines in his report as the eommather of the Western Department his ation was also commended be Soctary Cabors, and by President Monroe in his ammal meswafe

We now approach a period in his career which makes the seleetion of Font Leavenworth as a home for the Intatery athd Cavaly School one of peculiar fitmess and signiticance. On Mareht, rext. the Commanding (ienderal of the Western bepartment. in conjunction with Genemal Atkisans, was directent welect a point on the wow bank of the Mississippi River within twenty miles of its confluene with the Misoburi, which. in their judsment, was best suited for the establishment of an inlanters school of instruction. The place sebected was the site of the presell Jefferson Baracks, and here cobl onel Leavenworth, who, in $1 \times 25$, had been promoted th the coloneicy of the Thided Infantry, set up the first American seloos for practice for intantry. Colonel Leatexworth. who. on his promotion in 1as, hat joined his new command at direen Bay, in Wiscomsin, eonducted a detachment of his regiment to st. Lonis and addressed himselt to the task of buidinge a post and a sehool at the same time. The achool was not destined to be lons lived, and when it dien, partyfrom inanition and party from want of otheial encouragement and support, it wats not destined to have a succesor for more than fifty years. It will be protitable to pallse for at moment over this carly experiment in military education.

From an examination of such mearer references to the establishment as can be found in the letter and order books of the period. it is apparent that the sebool was neither berun nor maintained upon - a scale of wasteful extravarance. Atter some correspondence with the Department, Colonel Leavenworth was informed, under date of April 21 . $1 \times 2 \mathbf{2}$, that each company of his regiment was to be provided with a copy of $\cdot$ Lidllemands Artillery:. It is probable that the companies stationed at the selocol were also supplied with copies of "scott's Tactics" and the fieneral Regulations of the Army. athl that some sort of instruction in drill and regulations was carried on, but not for long, as the letter announcing the shipment of
the text books in Artillery bears date April $\because 1$ st, nearly a month sub, sequent to the date of the order transferring the garman of Jufferwon Barracks to the Upper Missouri. Afd so passed. after a life so shont as to have depriced the undertakipg of anything like an apochmaking character, the first attempl to set on foot achool for the practical instruction of officers, notpoly in the C"ukerl states, but. in all probability, upon the Western Continent as well.

The orders of the day for Mreh i, 1s:- directed colonel Leavenworth, with four companien of his regiment, to ascend the Missouri River and, upon reaching a point on its beft banks, near the mouth of the Little Platte, tof select nuch a jomint within a range of twenty miles below its yonfuence as. io his judgment was best calculated for the site of o permanent captomment. The geography of the department was less grod than the judgment of Cibonel Leavenworth for, after a frasonable seargh he whote the Department, under date of May sthut that he had mate the liocation on the right bank of the river, and had commenerif the erection of a cantonment there in accordance with his orde-s. Tho Little Platte enters the Misouri from a narrow valley abodt ten milescast of Fort Leavenworth. Its neighbdrhood presents no special ad. vantages as the site of a military prost, and contain. but two towns of considerable size. one. Weston, inted asia cente of prowlavery operations during the Free Soil disturbances in Ransas between 1850 and 1860 ; the other. Platte Clyy, becume famous as a rantage ground for the operations of Jayhakers during the period of the Civil War. Indeed, the eant bank of the Misoduri was wisely abundoned at an carly stage of the search, as it fas foumd to be subject to overfiow, and otherwise ladeligible than he commandins situation on the right bank of the riker. where Cantpnnent Learenworth was finally established. Thys was in April. 1527. and the post with which the army has bon more closely identitied than any other stands upon the site cilpsen for it by its distinguished founder narly serenty years ago.*

On the 19th of September, 1827 , the commanding general of the Western Department was informed that the site selected by Colonel Leavenwgrth fior a permanent cagtonment on the "right "instead of the "left" bank of the Missouriforas deetned to be judicious. and was therefore approved. The post was definitely designated :" Catl. tomment Yeareaworth," in accordance with orders from the Adjn-

- The poof returas do not show what troops pad oceupied the inse frior to a aznet, wit:

 retary of War
tant feneral's Office, dated November s, 182 . At first the pust was fond very unbealthy, a large number of the command being prostrated by malarial fecers, which, in many cases, were fatal.

A little hess than two years later, on May 26, 1829, the garrison of Cantonment Leavenworth was withdrawn to Jefferson Barracks, and it is nut easy to fix, with precision. the date of its return. It was again entablinhed at some time prior to August of the same year, as a return bearing date August 12,1829 , gives the composition and strength of the garrison, which consisted, at that date, of
 Sixth Infantry, numbering fifty-six men. under the kommand of Captain Zabmon C. Pabmer, of same regiment. The Secretary having directed that all cantonments should be called forts, the designation of the post was changed to Fort Leavenworth by Orders Fo. 11, of the Adjutant Genemals Office bearing date Febrabys s , 193.2. *

In February, 1834, Cobonel Leavenwort was ankigned to the command of the Southwe-tern frontier. and in that capacity con. ducted a campaigu against the Pawne Ibdians. These operations were carried on with sucti skill and address that one of the most formidable tribes in the southest was not orily sulyugated. hut induced to enter into permanent traty regulation with the 「 nited States. without a single hostile collision. On July 2.5 , 1834 . Colonel Leavenworth was brevetted a brigadiergeneral. having on that day completed ten years of fathful sersice in the spale of brect colonel in the army. On July ㅇst, tour days hefore his well deserved promotion, and while still "ugragel in the proserution of operations against the Southwestern Indians, Gencral Ieavenworth died, after a brief illness. at the Gross Pimbers, near the bouth of the False Washita River, in the Indian Territors. Itis remans were interred at Delhi. $\bar{X}$. Y.. in May of the following var. The resolutions passed by the officers of his regiment. which. in great part, constituted the expedition which the General was comducting at the instant of his untimely death. evince profound sorrow. and consey a deep sense of personal lose at the passing of an ofticer who was far more to them than a mere rerimental commander. It will serve to mark the interval of time which has passed to say that one of the junior signers of the resolutions. Lieutenant Georise Wright, was lost at seathirty years later. he being then the senior colonel in

- I am indebted for a number of important facts in relation to the extablishment of Fort lenvenworth and ite early history to the thoughtiol and palastakiuk endeavors of Mator geokge W. Darts. Fleventh Infantry now the 1'resident of the War Records Commigsion in washingt,
the army, and en route to assume command of the Department of the Columbia, the territorial limits of which it would have been impossible to detine, so little was known of that region at the diate of General Leavenworth's death hin 1834.

The general esteem in which he was held in the army is shown by the following extract from a slibrt notice of hid life and services. which appeared in the Military and Natal Maymzine or the C'nited States for October, 1834:
"General Leavenworth's reputation belongs to the country and he has left her a rich legacy. He was not a mere fotdier. Vicwing the various questions which camebefore him in their true chements and just relations, he was no less lear in judgment than enersetic in action. He never shrank from a responsibility which his situation devolved upon him, but, with the delicacy and difficulty of the task, seemed to rise the irrepressible energies of his spitit. He encaped, too, the great danger of men aceustomel always tw. .wmmand, and knew how to care for the rights and feelings of whers. To no better hands could have been confided the sometimes aniflicting interests of a regiment, for he entered inqu the feelins- of all and, a thorough soldier himself, knew how to interpose and reconcile all. He always commanded his regiment, and ther who composed it learned to appreciate, in the order and harmony which prevailed, an efficient head."

General Leavenworth seems th have exercised a profonin influence upon the development of the standards of duty and diacipline in the army of the United States during its formative period. between the reduction of 1821 and the occupation of the valley of the Lower Missouri, which was completed in 1845. 耳e was ane of the first, as he was certainly one of the most active and intelligent of the small number of regimental commanders upon whom devolved the daty of adapting European methods of drill, discipline and administration to the peculiar needs of our own military nervice. -How well this task was performed was Heen, a little more than ten years later, in the splendid behavior of the regular regments in the war with Mexico. He was a man of broad and raried culture, keenty alive to the needs of the time, and fully impressel with a sense of the importance of the part whichi the army was to play in the development of the great empire bogond the Missidsippi, which had but recently been acquired, and the very bounddries of which, to say ndtling of its vast resources and possibilities, were then practically unknown. That the settloment of the valleys of the upper cournes of the Mississippi and Misspuri Rivers, comprising the States of Missouri, Kansas, Iowa, Minnesona, Nehraska and the two Dakotan was effected peacefully and withouf serious friction, is due largely to
his foresight in preventing hostile collision, and to his mare tat and skill in dealing with the tribes whose teritories wequ beins encroached upon by the advancing settements. And it was while engaged upon the execution of a similat selheme of pacitication. whth reference to the tribe oceupying the plain region of the Trans. Missouri - a duty of the highest importance, which had bqenenthonted to him as the one best fitted. by character and capacity, tor its ade quate performance - that death put a tem to his usuful abd pros ductive labors.
out war was the necessity of a larse boty of monaled trong to a vigorous and successtul prosecution of military operations. It was originally proposed to contine the cavalry of the Fedyral army to the resular establishment of sis regiments, and this dedision seemed justified at the time be many and goond reasons. (remeral seore had ambounced the opinion that owing to the wonded and proken charanter of the fied of operations and the imphorement in rifte tire. arms, the role of the cavatry in the appoachnis comtert would be of an unimportant and secondary nature Again. it pould require at least one year of tratning to produce an etticient monnted soldier. and it was contidently expected that the rebeblon would be *nppersed within that period. Another reason urged arfanst the reation of a large monnted force was the question of cpuche. Caralry is a vere expensive arm. and later stativice shong that it cost 8300.000 to provile the equipments tor a sithsle resimat.

The firet hattle of Bull Run proved a conclusive argherot againat these reasons. The eres of the Noeth were opened or the marnitule of the struggle before them. The operationsof the Black Horse
 fully "ppose them. All questions of wapence were thy reapon distegathed and Consress anthomed the Prenilent to acop phe servicos of colunteer cavalry. Now, as to the manner in wheth this force was to be organized and prepared for the tield. we find the congrewional enactment atove refered to ( Aurust 4 . 1 : 61 , provided, among other things, that "each company afficer, nonfomminioned
 own horse and horse equipments." This was in aceod with the orders issued be the War bepartment on the th day of hard precedins. for the organization of the single resiment of caralry called for by the President.

But the Congressional enactments went further and abded a second proviso. that esuch of the companies of catralry as may require it may be furnished with horses and horee fguipments in the same manner as in the ("nited states arma..

This second proviso was a sating clause: without 1 , it is doubtul if the govermment could ever have mantained and eicient cavalry force. The Confeterate stater adopted the poliey of requinitis the tronps te provide their own monnts. athd ahhough the evils of this ssatem early became apparent, it was blindly persiste in to the end, and was undoubtedly one of the chief catusen of the rheid decline of the Southern cavalry in the last two years of the wan The metbod propersed, of keeping himself supplied with a servicuable hore in
consideration of a per iliem chmpensation of forty rents. seems never to have frund favor with the Northern trdoper; ath the Third Indiana and First Iowa, and peksibly a tew other regiments. werpo the only ones which arailed thdmselves of the offer bib the entire period of the war.

While the evils of this systerh unquestionably andedmed it as-a means of keepithy the cavalry nfounted. yet in dhe everth of another war it seems that it might wit alvantage be reverted win time placing the trops in the field. The ditticulty of shtalning a sutticient number of horses to mount the newly oranized resiment-at the outbreak of the war, resulhed in many regriment taking the field without any mounted trahning, while others actually served more than a year as foot troopi while awating at supply of hower. The government could purchase at a fair valuallon and after inspere. tion, the horses offered by the folmuteer. and this would sive the Quartermaster's Department sufficiont time to \&tablish its regular purchasing deposs by which the troops are to be remounted.

To a better understanding of some of the canses which (...ntributed to the inferiority of the Northem cavalrymen in the tiret year of the war, we must fobk w" the manner fin which they were enlisted and trained. Uuler the Congressionad authority to eniat volunteers, the Secretary of War granted pertission to influemial men throughout the country to of ganize cavalry egiments. Recruit. ing stations were opened in various parts of the States. and apuli. cants were emrolled until the fomplement of the company was
obtained. obtained.

The company then appeared before an offee of the resular army and after an inspection of fmen tior physigal fitness was duly mustered into the service of the United fitates. The new orgamizition then repaired to the regimptral rendezvous, wher it was supposed to receive a course of milifary training.

In the execution of the details of this apparently simple and Natisfactory scheme, we find that men were enlikted without regard - to size, weight, knowledge of birses or riding, and many of them were entirely unsuited to mount d service, and never became even $^{\text {a }}$ passable cavalrymen. As the gheater part of the work of the cavalry in future wars will be detached service, scouling, reconnaissance. otc., individual horsemanship apd skill in the use of urms will be more important than ever befofe, and men should not be enlisted who show marked unfitness for mounted service. Of course, eren with the greatest care in selection and subseqpent training, some
men will turn out very poor riders. and provision shodd be made for the transfer of such men to other arms of service.

The training which the regiments were to receive at the rendesvous very often amounted to nothing: no proper frill pasters were provided and the troops loitered around in idtencss and discontent for months, awating the arrival of horses and equipleots, which, in numerous instances, neser came. In the historg of the Tenth New York cavalry, it appars that the officers emplof a retired Prusian officer to drill the regiment. Further, we seap: "Had the regiment been under the command and instruction of a fegular army otficer from the begiming, it would have been a great alvantage." Asain. in the history of the First Rhode Island Caralry, we read: - Incaluable to us at this time would have heen sudh a volume. siving the structure dutios drills and fied experiencengra regiment of horse."

In the history of the Fourth Iowa cavalry the ftorts of the newly appointed officers to drill the troops is referf it to as "ibe bind leading the blind." This state of atfairs existe very generally throughout the country and the condition in fhich cavalry resiment, frequently took the fied is graphically set forth by Captain Vanderbint, of the Tenth New York Caralry, in fescribiner the first service of his company on escort duty. Ine sas: "Please remember that my company had been muntered in 0 the service onls about six weeks betore and had received hore hess than a month prior to this mareh. * * * rome of be boy had a pile in front of their saddles and one in rear so high and heatre that it took two men to saddle one horse and two men to help the tellow * into his place $* \quad * \quad * \quad \lambda$ soon as 1 cobald get my breath I shouted (fallop, march!' and away we went over the hard frozen ground toward Fredericksburg. In less than ten minutes Tenth New York men might have been seen on wery hill for two miles rearward."

After reading many accounts of a similar nature to Captain Vanderbilts. it is not difficult to understand why entire equadrons sometimes surrendered to the enemy from sheer helplessness in the early years of the war, and why the cavalrymen inspired more ridicule than awe.

In support of this practice of pushing raw levies to the front without previous training, it has been argued that there is no better training sehool than the camp and battlefield, yet it is equally true that much will be gained by a careful selection of men and a little preliminary instruction properly directed. It was by enlisting only
men accositomed to riding and the care of horses that the Contederate cavalry was enabled to attain ifs high state of efficiency in a viry shor time．

## ARMS AND EQCIPMENT．

The experience of our cavalty contirmed the value of the car． bine，saber and pistol，and thesenweapons continue to be the arma－ men of our regular cavalry tpoops．A laree propartion of the European caralry is armed with the lanee instead of the saber．and therd are many urguments in fayor of it as a chadrging teapon．The lance was issued to and carried oy the Sixth Pennsylvania caralry （Resps Lancers）from the time it took the fielh；December，lsif． until its return from Stoneman to raid in May， 1863 ，when it was discafded as unsuited to service．It is unfortunate thalt no oppor－ tunit was offered this regiment on use the lanct in the charge．as the $n$ en placed areat confidence int the wapon，find results with it woul have been valabble in reatibing a cletermitation ats to its reba－ tive 中erit．

There has been much contronersy wer the comparative value of the pistol and saber，in the chatre，but the teximony of the watt seem：strongly in tavor of the saber，antll it is mpeatedly recorited by mony of the participauts that the pistol nevor drove the sibur． The pistol was the favorite weapon of the Confolerate｜cavaly in the eqrlier part of the war，but if is a sighificant fact that the cav－ alpy combat on the riglit flank af Get！ysburg was fought with the saber almost entirely．atod these frere the same froops that tomorit at Brandy Station，Aldie，and Eiperville，and must have linown the most effective weapon． ！
The saber would be a much more formidable weapon if ground to a cutting edge，and there seemin no grood reason why it should wot be．The practice of sharpening the sabens was qrequently resorted to during the war，and at one time was the occason of a complaint by the Confederates that our troaps were violating the rales of war． The result of the rebel protest was a general order in the drmy ot the Cumberland authorizing the use of sharpened subers．

Many defects in the cavairy equipment whict became apparent during the hard service and rough usage of the war have since been remedied．The McClellan lisaddle，lissued then with only a rawhide covering，caused great dibcomfort to the rider after it had been rain soaked，and the stitchin giving way exposed edges of the bide，which became barsh and stifif and cat like aknife．This has since been corrected by the nse of a leather cover over the raw－ hide，and the McClellan saddle as used today is probably the best
military saddle in use in the world．The a addlebags，small leather pockets scarcely large enough to carry a pair of horseshoes，were invariably thown away to make room for a canvas bag，sack．or other contrivance better suited to carrying the innumerable small articles that form part of the equipment．The present saddebazs are a vast improvement over the old ones；and would probably prove satisfactory in active service．

A grain sack should be provided in which to carry the three days＇forage which every cavalry command found it necessary to take when operating independenty and away from the trains． Witbout the sack，the trooper usually solved the difficulty by spreading the grain in the shelter hatf and rolling it into a eylin－ drical bundle，which be strapped behind the cantle．This method distributed the weight，and bundle could be made symmetrically smaller as contents were used．

The picket rope and pin，so necessary and nsetul in the service of our regular cavalry on the Western platins，lones its function When large bodes of caralry are operating together，and being an added weight and incombrance，it was atmost invaliably thrown away at the beginonigy of a campaign

It would faror the secrecy so necessary in operations of scouting， reonnaisance，ete．，to substitute a hard leather scabbard for the saber in place of the noisy and conspicuous metal one now in use．

## officers．

Much of the inefficieny of our cavalry in the early part of the war may be attributed to the lack of military education and general untitness of the officers，and this in turn may be explained by the method of selection．Until l8tis the company officers were elected by the privates and appointed by the State gorernment upon the recommendation of the colunel．The field officers were elected by

This system of selection was eminenty vicious；it was the cause筑 aliscipline，and the class of officers furnished $b y$ it was decidedly inferior．Popularity with the enlisted men was often in inverse proportion to education，correct military ideas and other qualitics which serve to make a good officer．The policy of promotion from the ranks for bravery and merit was adopted in our service in $1 \times 63$ and continued to the end of the war．The change met witi，much opposition from the enlisted men，who were jealous of their wip－ posed right of selection，but its heneficial effects were soon apparent
in securing better officers, and moreorer the hope of promotion proved an incentive to better conduct on the part of the men.

The course of military instrucpion, which is pow a teature of maty of our most prominent edugationai institut fons. will place a large number of intelligent and wall educhted men at the disposal of the goverament, who, in view of their previons training. will only need a little experience to make them good oficers; and these are the men that should be appointed.
MANTENANCE OF TRGpips IN THE FIE\&I.

Having organized the troops int regiments and sent them to the front, provision must be made to continue their effecenceby filling up the ranks as they become depleted from losses in men and horses. This leads to a consideration of the methods of recenitment and pros viding remounts. There are two ofermal systemsof recpuiting an army that have been resorted to in the of war: 1 s . By drganizing new regiments; and, 2d. By replaning losses in flit regiments by recruits sent from regimental depous.

The first method was the one adppted hy our gopernment duringr the war, and resulted in doing intalculable harn to our armies. The well trained and disciplined rquiments became inefficient from numerical weakness, often being redfaced to less that, 300 men. while. the new regiments, from lack of training. expenience or proper officers to lead them, were almost undens.

Anpther objectionable feature of this system was that mewly appointed officers were often. by seniority of ank, placed in responsible positions, and in commapd of older officers of far greater knowledge and experience, and this naturally caused discontent and bitterness of feeling. and often led to a lack of eanest and mutual support.

The evils of this system were suft as to condemp it for all time. It did not possess a singlé redeemin feature, and io use in our sirvice can only be explained on the ghound that it favdred recruitment i by providing commissions for many new officers, and to secure these ,i appointments private individuals made strenuous eforts to organize \& companies. This reason had greate weight toward the end of the war, when men' were not so readily dbtained as in the earlier period.

The adrantages of the second method are that by sending the recruit to the old regiment he falls under the care of experienced officers, and is thrown among old ande disciplined soldiers from whom be readily learns many of the dutie that help to make him atl efficient soldier.

Almost all European armies organize their regiments with four or more squadrons, one of which is retained at the depot. This squadron is kept at maximum strength by constant recruitiments, and after a period of training. men are sent to the front as thay are needed by the regiment. There is no reason why this method should not be attended with good results in recruiting for our large volunteer armies. and it is almost safe to say that in a future emergency it would be adopted.

REMOUSTS
The efficiency of a cavalry regiment on actice service depends an muchon a continuous supply of horses as on men, and the records of our war show that the question of remounts was a most difficult problem to solve.

In all wars of any magnitude. the losses of horses by death, from wounds and disease, capture and abandonment. will be great, eren with regular troops; with raw, untraned levien, it will be enomous, and there must be some system by which such losses can be rapidly made good.

During the first two years of the war the QuartermanterGeneral reports that there were 284.000 horses furnisbed the army; and at no time during this period were there more than 60,000 cavalry in the field. These figures are greatly in excess of what might have been legitimately expected from a state of war, and resulted from several causes.

In the baste and excitement of mounting the newly organized regiments little attention was paid to careful selection of horses with respect to their adaptability for cavalry purposes, or even condition, and many horses gave out after short service, while thousands died before reacbing the front.

Again, the great majority of our volunteer cavalrymen were totally unacquainted with the subject of proper care and treatment of horses, and this ignorance and indifference was responsible for many epidemics, which a little skill and foresight might have prevented or checked. This is particularly true of the disease known as "gcratches," a condition of the horse's heels very similar to chapped hands in the buman subject. This trouble was caused usually by exposure to cold, rain and mud, and when it occurfed on a long march many borses became too lame to travel, and had to be abandoned. While this disease is difficult to cure, it can always be prevented by keeping the pasterns and beels well greased during inclement weather, and wrapping the legs from the knee down with
strips of blanket or other woolen cloth. In the fall of 1863 an epidemic of scratches traged in whe Armies of the Potomac and Northern Virginia, and rendered the cavalry almost useless.

Again. thousands of horses died from overwak and exposure due to constant and excessive picket duty. Hany army commanders knew no other use for their caralry during this time, nor did they know how to properly une it in this service.

The continued and frequent cofmplaint trom the quartermasterGeneral of the difficulty and great expense of keeping the caralry mounted, finally convinced the gofernment that yigorout measures must be taken to check the useless and extravagalt waste of horseflesh. In July, 1863, the Cavalty Bureau was organized for the purpose, among other things, of providing mounts or remounts. Large horse depots were establishled at suitable points throughout the country for the collection and training of horses and for the care of sick, wounded dud worn-gat horsqs sent io the rear. The efforts of this bureau caused a marked decrease in be low of horses. but it required the greatest exertions to keep the froopspeffectively mounted, and it appenrs that this was not alhays successfully accomplished. General Sheridal. in hi. ". Mempirs." ntates that ouly nineteen hundred horses were turnished the cavalry corps of the Army of the Potomac from April bith to August +th. and that this number was not uear enough to mpant the whole command, and the men who could not be supplied were disposed of in a dis. mounted camp.

While great destruction of hipesefesh will aldays attent ener. getic caralry operations, the proportion of losses fin the war could be materially reduced and the government enabled to keep its cavaliy force mounted, and this with an increase of efficiency and a saving of millions of dollars, if ités experience in this important sub ject serves to correct abuses and mistakeston future occasions.

If, as has already been suggesmed, only such man be selected for the cavalry as are accustomed to the care of horses, and it these men be required to furnish thoir original moyntr, the Cavalry Burean will have ample time to establish its depots for the reception of new borses, and for the care of those rendered temporarily unserviceable by wounds, disease or exhaustion. Officers of known ability should be established at the chief purchasing qenters and should make careful personal inspection of all horses proposed for purchase by the Quartermaster's Department, instead of delegating this duty to irresponsible parties whose interess were oftan adranced by collusion with dishonest horse dealers.

## CSE OF CAVADRY.

While the Civil War marks the origin and development of mans features of modern intantry and artillery tactics. it went much tirther with the cavalry and practically revolutionized the art of handing mounted troops. Cavalry, which for many centurien had been resarted as an anxiliary arm in the extreme sense of that term, capable only of oftensive action, developed in our war an independence of character which enabled it to cary thengh suce fulty the ereat ratis which were such an important teature of the operations of the hast two gears. and in the conduct of which it was olten called upon todetend itself agatinst equal or superior numbersot intantry, artillery and carahy combined-as in the attack on Surbidase radithe column within the detensise lines of Riehmond- - ${ }^{-}$ to assail amblary fortifed places strongly detembed, as instamed
 of $1 \times 6 \%$.

The dintimetive keature of the Americall cavalye athet the come Which conteren on it its grat powe of mesistace, was dismonated tire action. This radical departme in the ase of cavaly resulted from several canses. The wooded and hroken teratin in which mont Qt the operations were conducted often firhade the monnted charse. and our troopers, treguently tinding themselves subjected to a tire from infantry behind haricales. naturally did what seemed to them most proper. dismonntent on ontan sheter and to make the beat ase of the fircarm with whith they were provided. This methed of action was the more reality assumed. as our cavalry. without pros vions history, was not bound by ally traditions of tabe theories as to the limited sphere of the employment of caralys This new
 alry leaders and srew ion use and faver thousheme the war. chablinis the cavalry to perform duties of such a varied and diverse bature an to almost justity Khepathons remark. "that cavalry could fight anywhere but at sea.

The service of the Federal cavalry divides itself maturally into two periods. The first. extending from the outbreak of the war to the spring of 1863. may be called the period of inefficiency and misuse; the second period, embracing the lawt two years, marks its sudden rise to power and career of almost uninterrupted success.

The failure of the Union cavalry to accomplish anything commensurate with the enormous expense of its maintenance during the first two gears of the war is to be attributed primarily to "bad management." Instead of being organized into a tormidable body
capable of opposing the enemy's caralry and undertaking independent operations, it was divided into detachments and ased principally for escort duty to general officers, to furnish orderli申s, guard wagon trains, and do picket duty around mfantry camps.

The brilliant work of the Confederate cavalry during this same period prored a lesson to our leaders and made known the possibil. ities of this arm, and efforts were made to secure fecognition and better treatment for this neglected corps.

The first step in the right direction was taken early in December, 1862, when General Rosecrans organized all his cavalrs into one corps and placed it under the compand of General Stanley. This more in the Western army was followed by similar action in the Army of the Potomac, and in the spring of 186:3 General Hooker combined his twenty-seven regimente of cavalry int, one corps and gave the command to General Stoneman. Two montis later (June, 1863) occurred the first great calvalry combat of the war. This was fought at Brandy Station andic noted as the furning point in the fortunes of the Union cavalry. The numbers on each side were about equal ( 10.000 ), and after a vigorous battle continuing all day, in which there were numerous instances of charges and counter-charges with saber and pistol, by squadrons, regiments and brigades, the hitherto invincible Confederate cavalry was forced to seek the protection of its infantry and guns, while the Union caralry withdrew unmolested acrors he Rappabannocl4.

McClellan (writing of Stcart's cavalry) says that this battle made the Union cavalry, and it can not be better expressed. Our caralry entered the fight doubting their untried stefength and skill, while the Confederates, with theit unbeaten record, had only contempt for their foe. The close of the day found our troops confident in their power and the ability of their leaders, and they never again showed anything but thé greateat eagerness to meet the Southern borsemen.

From this time to the close of the war we find the Union car. alry occupying its true relation to the other arms and levery important battle, campaign or military operation afords numerous instances of its service.

In the advance of the Union sod Confederate apmies to Gettys. burg, we find the cavalry scatteref well out to the front and flanks, and performing for the first time properly, the duties of screening and reconnoitering. When Hoospr was in doubt as to Lse's movements, he called upon the cavalry for information; and our cavalry, hurling itself upon the Confederafe screen, fought the heavy battles
of Aldie and Cpperville, drove the enemy thoush the monntains at Ashby's Gap, while the caralry scouts looked down from the Blue Ridge on Lees army moving down the valley toward Williamsport. This use of cavalry as a screet to conceal the movements of the army and to maintain contact with the enemy by means of reconnoitering bodies, charged with the duty of obtaining information of his movements, did not originate with our cavalry but was revived by it. Napoleon used his casahy very effectively in this service, but in the later wars of the present century it was rery generally neglected. Its ralue on this daty made it one of the most important services performed by the mounted troopsand they became very efficient in its execution. If Pope had made a similar use of his cavalry in his campaign in 18tie. Jacksos would never have appared unexpectedly in his rear.

On the battefield the eavalry was usaally held on the flanks. and its purpose there is well illuntrated by the battle of Gettyonarg. On the 34 of July. Stiart. in command of the Confederate ravalry, was directed to strike the rear of the Union line and create a panic there in conjunction with Pieketrs assault in front. Stiart endeavored to pass around the right of the Chion line unobserved. but his approach was reported and the Conon cavalry was on hand to check and finally to repel him.

The battle of Chancellorsville records a service that cavalry may at any moment of the battle be called upon to perform. When Jackson struck the right rear of the Eleventh Corps and the panic of the troops threatened disaster to the entire ariny. it was the Eighth Pennsylvania Cavalry, three hundred strong, that lis a reckless charge checked the Confederate adrance long enough to enable General Pleasaston to gather together twenty guns and hold the enemy until the arrival of reintorcements enabled a new *ine to be established. We find a similar instance in the heroic charge of the Fifth Regular Cavalry at Ganes Mill. This service frequenty entails a sacrifice of the caralry engaged in it, but the results obtained usually warrant it.

It was Pleasantos's cavalry, thrown out eight or ten miles in adrance of the army, that seized and held the adrantareous position near Gettysburg, which later enabled Meade's army to ehech and throw back Lees triumphant adrance. The advance cavalry under Buford beld the position for four hours against the determined assaults of Hill's entire infantry division until relieved by the arrival of Reynolds' and Howards corps. Another example of this use of cavalry is found in the seizure of Cold Harbor in the

## CAVALRY LESSONS OF THE CITHIU.IA.

there. The raids of Stoneman, McCook and Kubatriek aroumd Atlanta were directed against the railroads which fupplied Hoon's arms.

Sheridan's raid during the Wilderness campainn was intended principally to draw off the Confederate cavalry and thas facilitate the difficult movements of the troops and trains of the Army of the Potomac. It wan also directed against Lees communications with Ricbmond and the destruction of Confederate propetty:

Wilson's great raid in the spring of 1865 was the most extensive operation of this kind undertaken during the war. His force consisted of 13,000 men, and his object was the devasthtion of a latine area of Southern territory and the capture of Se ma. one of the most important depots of military supplies in the south.

The raids of Stcart's cavalry furnish exampley of other ohjec. tives; as for instance, his raid around the Cuion army in front of Richmond to obtain information of the strength, dispositions. intentions and communications of the Felleral forces-and asain, Stcart's raid around the Union army, after Antictam. was intented to draw off the Federal cavalry from the pursuit of Lee, and thus enable the Confederate army to withdraw unmoldeted and rewrganize its shattered forces.

The development of the cavalry raid is a sequel to the use of dismounted fire action. While mounted troops depended on the lance, saber and pistol, they could never venture far from their supporting-infantry, and were easily checked by a comparatively small number of dismoupted men strongly posted. Now, an army composed of cavalry alone, such as Wilson's colump, may go ally Where in the theater of operations, for it contains within itself a power of both offensive and defensive action.

The use of dismounted fire action may be considered the great cavalry lesson of our war, and white many European writers sefer, slightingly, to the Ametican caralry as mounted finfantry, other nations must in time adopt our methods if their cayalry is to hare a fature career of usefulness. It is true that our troopers were mounted infantry; but they were true cavalrymen also $\mathrm{i}_{\mathrm{j}}$ as was shown on many a battlefield, and it was this combination of functions which developed the ideal soldicr, or the man whit fought effectively both on foot and on horseback.
 HOHENI.OHE INGELFINGFN.

TRASBATED FBHM THF: GERMIS.


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II. I tannot retrain from reverting to that protion of the see mad part of the riding instructions which treats of the inspertion. and gives illustration of the manner of condurting an inspection. It is expressly stated there that side paces in squats are to be ridden by command, and likewise shortened paces, in quads
s. I know very well that these illuatrations have done much harm where, in conformity thereto. the instructors go through the program in a perfanctory manner throughout the year, or, at any rate. durins the last few months or week. That is neither the intention nor the sense of the riding instpuctions. The ifhntrations are expressly stated to be given as illustrations. not as rigid patterns. They are also given with reference to one point alone not to many points. It is nowhere stated that practice should be conducted in that manner. On the contrary all precepts of the riding instructions which have reference the the exercises. i. e., \$ymnatics by means of which man and borse are to be trained, assume that the rider is riding by himself. Again and again, you timl a catution, "much individual riding."
H. How do you expect a squad at inspection to ride side paces on the double trail, with distances and the shortened paces, if they are not practiced in them?
s. I assure you they will do much better at the inspection. even in squads with distances, when these paces have never been practiced with distances and always during individual riding. Any inspector who is an expert rider will prefer to see these paces on each horse separately. In case, however he has not the time to do
so, and merely wishes to get a general idea, side faces will go bet. ter when not previously drilled. I will admit that each rider will make more mistakes and that fach horse will gr worsa than in individual riding; still it will unt be as bad as they had been drilled en bloc. That is very nutural. For in sheh exercises of higher paces with distances by command, the rider will sometime commit an error of riding for the sake of keeping distances: he will give an aid which is wrong in itself and unintelligible to the horse. The horse remembers j , and next day indicates it by wrong response to the proper aid, by obstinact which may he slight at first. Daily repetition of riding of such exercises with distances in equads increases the fril. \& Fery ridipg instructor will have the experience, that when paresing to the side paces in squats after they have buen tapught singly, they go betten during the firnt than during subsequent days. If he fails to rever at once to inti. vidual riding, he becones stubbaf and desperaty simply becanne he does not qealize that it is all how own fault. If, ft the inspection. be desires to folow off as pertectly as possible the iflustrations given in the riding instructions, he shlould practice these paces in indi. vidual riding exclusirely. Mang commit the ernor of continuing the riding of these paces too longt at a time. In the bewinning it is beneficial to all horses to be content with two or three steps. and of many no more than this should be required. Hut practicing the same-in the squad is apt to misled the instructor to continue them too long, to the detrinuent of the horses. In the end it will pro. voke obstinacy, for when he has once given the of der, he wishes to observe each pupil, ond after the other, and by the time he hat done so, the pace will have been confinued too long fren for the very best horses.
H. I will now suppose that he inspector requires the presentation of the squad according to the illustrations in the riding instructions, and that, according to yqur principle, each vider rides the the side pace in accordwith the donformation and degree of trainines of the horse, i. e., one will ride'the perfect side pace, the other the incomplete side pace, another a higher degree of position, another the one-sixteenth sidei pace with one-half foot distance between trails instead of a short pace. Tpe inspector will then find fault and refer you to the riding finstructions where the exact distance between trails is laid doton.
s. He will not; for he is an man whderstands the art of riding. He wifl commend the rider who fails to tide the side pace on command, if the horse's conflomation prevents it ; he will com-
tuem the pider for taking lese position and lese divathee betweon trailf berause the horse is bot sutheiently adsanced wemply with the full measure of the regatations. He will be pleased to see that there is "individnalizure." ther he well aware that the precepte of the riding insuractions aim at the highest perfection of trainilas. Which is umattabable with detectively formed or dereloped horens. He will approve this restriction to a lese degrec. provided that the pare le ridden thoroughy well. fir he knows that taty riding of the highest forms of these exereses will injure the horse. All that the inspecting suprerior knows vers well. becanse he is an experiched rider. We should te bumdine the principles of our trainine on rery insecure groand- were we to presume and act acordingly. that the inspector know - wothing atwat riding.
A. In the there other equath of the secome ribline clane which we designated an Nos. 9.10 abll 11. Yo would not. I suppose permit sithe paces on the donble trail?
$\therefore$ Why mot: Exervthor in it- proper place: It depents on the capability of the horse abd the degree of the mans trainilus.
 ride who cannot ride remonnts, and theretiore do not belong in squads 1 to 4 . It is verg pronthe that a non-comminione otticer may acquire the necersary skill in riding at atater late particularly if his taning hav been interrupted by detaik as cherk. ete.: and if it becomes certain that he has tatent, his skill will be promoted by ridins in squats a and 110. Similarly it will be with some four-gear voluntecs and three year men whose talents do wit become apparent before the second yeare and whom, it is hoped. it will be possible to class among the trainers.
II. Will suitable horses be foand in these squats sinee ren have taken the best hoses for the recrats?
$\therefore$ Many good hotes will still be avalable One may be too high-spirited for the recruit, another tow haz: One has too high paces and bumps the rider tow much. The action of atoother may wot be sufficiently fresh. All these horse maty be pertectly built athl sufficiently advanced in their training to mount unfinished riders and give them an idea of the higher lesoons and their purpomes.
H. In Squad No. 11, the horsp of which will chiefly consist of candidates for the next condemmation and which squad consists of more horses than men, because the men do not ride daily, you will probably not expect the higher lafons at all?
$\therefore$ Not at all. Among the chadidates for condemmation misht
and should be the best ridden horses, and which are to be c.on demned solely becausethey begion to get old and are not expected to remain fit for aervice for any length of time. The same will, no doubt, be the case with thone which suffered in bope and dinew and are to be condemned oi that accedunt. Among them should be the best ridden horses. It is not allgond indication of the riding of the squadron if it bas borses condemned as "unfit hor riditug." The suspicion is bound to arise that the squadron has them condemnell because it cannot manage them, and retains insted old and numb, horses which are no longer equal to the strains: of a campaiun. As regards the riders in this squad, there may be men of talent among them. The causes interfering with their sefvices have nothing to do with riding. Why should not among the tailors and shoemakers present with the arm, be some men who have talent for riding, though the well-known proverb points out that it is not the rule? Nor can I understand why in Squad No 8 , composed of such of last year's recruits as havg lagred behind and are to undurgo a second course of training, then should not be some riders who make progress in the art of riditig. One may have lagged behind owing to sickness during his first year of service, had yet he may be well fitted for riding.
H. The riding instructions hy down the limpts within which the first riding class is to be kept. If any man is to be adranced beyond, he should be removed from the firnt ridinglclass.
S. That obtains for the winter when the art of riding as such is chietly cultivated. During the summer nuch onen of the first class may well be adranced farther in indiridua riding just as the riding instructions atate that the recruits designated ha future remount riders should, during the summer, be tathet tho aids of the second part on well trained horses. On the whole, you would make the experience that if the training of the horses has been conducted in this manner for four yhars before they wre explected to train the rider, if, for the rest, the finding service has been manalged practically, if the men be given full freedom in indiridual ridinar only, if the renewed qniebeln and eystematic rakaining of all squads be omitted, and jif higher lessons be taken up at a late date, then, I say, the art of riding will be much fetter promoted in the aquad, and that among the old horses of the fsquadron there would be areat many more capable of going the higher lessons thoroughly well thain under the system now in rogue. Here Baucher's excellent,words i "Pluslvous allez lent, phes vous irez cit," would be confirmed. It would preserve the horseds strength. A
squadron whicb manages the instruction in riding on these lines during ten normal years of peace should come to such a point that the old contingent of horses, when condemned, would, with a few exceptions, contain all horses origimally belonging to it and that all would be splendidly trained horses. They would still be so serviceable that it will make the squadron commanders heart bleed to bave them condenned, and that other troope would bo glad to retain them for on or two years more
H. I have often heard it said that it is good for any horse to be thoroughly bent anew and worked over again in the fall and winter of each year, hecause it loses during the summer exercines. schaidt expressly demands it from all riding classes.
S. I acknowledge that I find it difficult to answer yon, becalne I would like to say yey and no at the same time. If the horse has deteriorated through the great summer exercises and maneuvers. i. e., lost in balance and position. it should be retrained correspondiugly. The horse should not deteriorate, however. If every rider exercises his horse individually and daily during the summer under. the instructor's eyes, excepting days of regimental, brigade and divisional drill. and days of maneuver, whatever may have bren lost will be quickly regained: a stage is then gradually reached When the position is not. and is not permitted to be, impaired by drill. In the fall and winter every horse will certamly be bent orer again: the only question is by what means. If the gait is properly increased and diminished so that the high hand is brought under, a good deal of bending will be accomplished. Still more, if the horse is given the second position. The correct medium trot docs much bending; most of all, the correct, sustained drill gallop. I inust admit that Schaint makes the demand youmention. He adds expressly, however, that it is not to be understood as a repetition of the training, but that man and horse should advance in their training from gear to year, and that the manner of training the older horse subsequently to the maneuvers should correspond precisely to the degree of training of the horse at the time of its return from the maneuvers. If he meant thereby that every horse should be tormented anew with a schulterherein, renvers and travers, whother it be necessary or not, I say "no!"
H. You suid just now that the horses of the last squad, candidates for condemnation, could go the higher lessons well because they ought to be the best horses. Don't you think that these animals will forget the bigher leswons altogether and become stiff when they have been recruit horses for four or six years?
S. A horse will never unlearn what it hav ohee learned well while in the state of bodily development, and what it had perfectent by the time it possessed its full strength. Exercise will keep it in practice, and the higher lessons pre merely saluhary gjmmastics. The horse will no more forget these things than will the authin forget how to write though he may be unable to recite the rules from memory. Nor wift the horsp lose the capacty for the gymnastics of the higher leprons, for the motions, turoinge and jumps occurring in ordinary service will keep the madores in trainine. It is possible that the rephembrance of the aills used hor putting thene lessons in operation may sometines become implired. Rational treatment will soon recill them the horse. Oqe thing I would ask gou to keep strictlyj in riew: No training. no fnicheng are to he permitted in those squado of the present secomd ridink claws which ate not specifically charged with training. They are ghe squpledesier nated by you as Nos. 9, 10 and 11. If the riter anproves so that he can and may be permitted to rinte-higher paces ol a woll traition horse, it should be doneffor the benetit of hix traininge. not that of the horse. The progregsise training of the home, tratining athl retraining. should be dpne in chepo squadr only which ceptatail: the nost perfect riders, i. a., in those which you have designated as Nos. $1,2,3$ and 4 . It should even be kept in view that the horves are not to be taught the higher lespons. that these lefsoms ate merely gymastics, means to the end of making the honve obedicut anil efficient for war. That end atteqned, training ceder. The horse will need thege lessons no longer. If some horse in inquads Nos. as. 10 and 11 is to go through these, lessons, it is tor the sake of the man's training. That aceomplistided, it shomla likentise ceave.
H. I believe I an now suttifienty intiomed how you would like to have the riding service handled during the winter. and I simply wish to ank you now whether you approve of our present mannertor passing fron the periof of riding to that of spring drill. From our previous exchange of rews I conclude that you approve, with a few exceptions, of taking May 1at, as the dey on which the recruits are placed in rapks, and drill by troop, platopn and kquadron is commenced?
S. Not at ali. You mentioned May 1st, and I heceptad it as a date equally good as April 1st, May 15 th , or some other date, without annctioning the particular date.
H. And what date would you designate?
S. None. I mean this: In the spring, when the weather permits the recruits to go into the oplon riding ground and to eschew
the hall, they are to practice individually or in the somare under their instructors, while the squadron commander drills the old men on old horses. by troop. platoon or suadron mare frequenty. athl finally every day. The squabron commathder selects each day those men who. when the squadron is fomed, maty participatio in a hati hour drill. I spoke of that the last time. The number aradually increases. as) that finally four flatome of cleven files (with some blank files, may be formed. From tow on he hays more stress on Arill by tronp. platoon ath squabron, bat never oo math as to we up the horses strength, or have no time het for dividing up tiae squadron dally- not only all the recruits, hat abo the ohd men en old horsen-among their instractore tor indivilual riding unture supervision, or sometimes, whithon the spare When the muadrun commander will be able to drill fire the fint time with four platoons will dhefly depent on the time whell wimter reates llore and mone recruit- will gradually take part in the drill of the equadron. whinh will tinally drill daity with lus bores 1111. counting in olle
 ness or detail. When, lowewe the firat reeruit may take part in the drill, when the squalron can he tormed in four platoons. when the last recruit will ride in ranks. (an neither be perlicted nor caln a derinite day be tixed. since. it the hatter case the training would be conducted with undue haste. Variations of as much as four weeks shombe be allowed tior. In all squals, howerer. individual rilling tremeln. riding within the spare, shond ger haml in hand with drill at all times, even throurhont the summer.
11. When all recrnits are ill ranks ami ho horses absent, sick or on detail, you can turn out at the most with 110 horses, after dedueting twentysix romounts of beth comthatere. In the mont tavorable case you would be unable to comply with scumats demand to turn out with four platons of welere bike cach, among them one blank file at the most, for sou have to mount fifteon non-commissioned ofticers and four trumpeters.
S. I told you once before that I consider this demand of Schmidts excessive, becanse it will compel as to take the old remounts along every time, and at a period when most of them are not completely developed and cannot have finished their training. and would therefore surely be spoiled by taking part in drill during the second year of their presence with the squadron. The old re. mounts may be turned out for parade. but I would excuse them from fatiguing drills throughout the year if practicable. We would always have some horses on the sick list or on detail amd 21 m ont
with eleven complete filles at best. To that number let us adhere and fill further details by making additional blank files. During the, war we were fortunate when we could turn dut with mine or ten files on account of much detached service. A few blank files more or less in peace time make no appreciable difference.
H. I understand what you say. I also think that it would be a good preparation for the fatiguing period of squadron drill.
S. The period of squadron drill should not at all be more fatiguing than the previous period of riding in the open. Permit me again to make an approximate calculation. Assuming that during one month of the winter frost prevents usfrom asing the , drill ground, there remain five months-from Octaber 1st to April 1st -or twenty-one weeks, during which the old riders drill half an hour twice per week by troop, platoon or squadron. Assumilus the winter (as in the present yeur) does not permit the use of the drill ground before April 1st, the squadron from then on rides datily half an hour in this manner, $i$. e, twenty five times and, toward the last, with a number of recruits in the ranks. That makes sistyseven half, thirty three whole liours of exercise, or sixteen drill days at the least, or an entire drill period preceding the time when troop, platoon and squadron dfill used to commence. It thus becomes plain that drill in May yould not entail undsual fatigue.
H. It would be a great gain for the shedding period, during which we like to spare the horses or, at least, dislife to get them warm and then let them cool off in the open air.
S. Certainly. But they musi be taken into the ppen every day in spite of, and because of, that period. Consider further the advantage offered by this method of training now when it has been decreed from above that regimental drill is to begin each year in June. The training of the squadron need, nevertheless, not be hurried if the matter is managed in the manner pointed out.
H. I would like to!express a doubt. Don't you think that the last recruits with their horses, who perhaps do not participate in the squadron drill until the firg ten days in May will spoil the order in the squadron because the are not sufficiently practiced?
S. Much less so than if they fide poorly, and take part in drill before acquiring safficient skill in fidiag.
H. Don't you also think that ithe horses of the last redruits if placed in ranks in the midst of the drill period will not yet bave sufficient wind for drill?
S. The recrait should ride much drill gallop in individual riding as be would in drill, and during individual riding in April
the squadron should be in as good trim as during drill in May. The recruit's borse is therefore in training whether it participates in drill or not.
H. Will the horse bear this aninterrupted taining winter and summer?
s. Better than the exertions now and then required of them under our present system. I desire that they may be given healthy and salutary exercise and work throughout the year and that they be never overworked or driven to death. At present they are being driven to death twice each year. once in the period of spring drill, once in the great summer and fall exercises. to which they are all the more unequal as they enter upon that period in a heavy condition. with hay-bellies and fat lungs. The efforts I mean to require of them during the period of spring drill are not to exceed the work to which they were accustomed the whole year round, and less than the efforts heretofore demanded of them during this period. The exertions during the great drill and maneuver exercises will remain the same as heretofore, but the borses will stand them better because used to constant work. In your letters on cavalry you demanded still more. I cannot deny that the other arms must demand such exertions from the cavalry if the latter is to serve its purpose. But it can be equal to those demands only if prepared during summer and winter in the manner pointed out by me. If treated as 1 would like to have them treated the horsey will never be fattened and thick-bellied but will possess strong muscles, remain fresh in their legs, and go in confident harmony with the rider, nor will they ever run down so and look as miserable as may nowadays be sometimes observed after the great cavalry exercises. More than once, as I have told you, I saw riders who had to dismount and drag their dead tired animals painfully along by the reins to reach their quarters after the exercises.
H. Some years ago the war office added a half a pound to the ration of oats. This is now being saved as a rule in order to give the horses an additional daily allowance of a pound or more during the time of great fatigue. Do you consider the present ration sufficient to keep the horses in working trim throughont the year?
S. According to all I have told you it will be more so. I will not deny that I would prefer a more ample ration. Better quality, bowever, would be preferable to greater quantity. According to present practice the "intendance" lets the supply of oats to the lowest bidder. The contractor, of course, furnishes the least nourishing oats, which gires little strength. During the war our borses
stood more in France than in Germany during peach, because the French oats were excellent.
H. I cannot refrain from pointing out to you, that, according to our principles of training, not all horses are kept so much in wind asiseems desirable to you, but only the sevent older borves ander the older riders. The sixty-six remounts and recruit horses which are relegated to the hall during the winter pill be all the less in shape for fast gaits as you require much indridual riding in the hall while the greater portions of the squads are comparatively resting.
S. The new riding halls are all very spacions, and since they are used by remounts and recruits only, these horses can get suticient exercise in them. I cannot deny, however, that where such large halls do not exist, it is an evil I should like to remedy if it were possible. For that reason I would have the squads mentioned ride in the hall so long only as tho necessities of the freather make it unavoidable. As soon in the spring as possible we must go into the open and there accustom the horses gradually to hore and more sustained fast gaits, and put them in good wind.
H. Do gou not fear that your principles of training contlict with exioting regulations?
S. Where and when? Did I not prove to you, ppint for point. that I \&m complying with the regulations, that I want the work conducted strictly in accordance with the riding instfuctions? All I want as to banish a certain perfunctoriness.
H. And existing old traditions.
S. On the contrary. I am recalling the good old traditions of the furishing time of cavalry under the Great Kiny. Any troop commander may conduct the training of recruits on my principles without having to fear disapproval from his superiors
H. Your principles culminate in this, that you do not want final ridug inspections. The squadron chief cannot abolish them. He is the one to be inspected. The superior will cpme and hold snaffle ipspection, final riding inspection, etc. What if the squadron cbief to do?
S. He obeys, of course. He must submit to inspection if the superion wills it, and the latter may inspect when, what and how he pleases. In his mind, however, the squadron cbief stould not consider it a final riding inspection, should not couch for it, should not drill exhibitions for it.
H. Then he will fallishort of the other squadronk, and to compete with them be must manage the service as thes do.

S . Not at all. He does not fall short ; he will be ahead of them. Though the superior may, for instance, have the men ride in squads only, with distances in the square or hall (which is im. probable, since the individual riding is also habitually inspected), I bave previously shown to you that riding within the square with diatances wilgo better if the chief weight is placed on individual riding than if yousimply keep on coaching in this formation alone. Anyway, all the squads have sufficient practice in riding in the square with distances, if, as I have pointed out, they make the proot of the example at the right time. toward the end, every day. The only thing I don't want practiced by squads, with distances and by command, are the higher lessons (side paces on the double trail and paces with correctly shortened gats). I have also ex. plicitly stated that, if anked for, they will go better by squads by command when they have not been taught that way than if they had been drilled. In this I am not developing a theory. No. I assure you. I speak from many gears experience. for the experiment has been made tor several consecutive years.
H. From what you hare stated at various times. I can, in the main, tell protty well how you wish the regimental commander to make his inspection. I merely meant to ask you to remove some doubts occurring to me. You wish. in the first place, that the resimental commander do not fix any day tor inspection. but be present at the instruction.
S. As often as posible, and always unexpected. In this he should be as thorough as possible; should theretore not inspect everything on one day, but only part of the squadron, so as to invariably inspect with fresh, unabated attention. He should do it according to a prearranged plan. For instance: He proposes. beginning with fall. to look on fire times a week at the service of the squadron. He will go once every week to each squadron. In this squadron he looks on once at the drill of the older men on the older horses, the individual riding, and the riding in the square; another time at the training of both remount squads; a third time at mounted recruit drill. Allowing for interruptions, he may be present once each month at the training of eath riding squad of the regiment, and see for himself whether the service is conducted rationally, and apply timely remedies to faults discorered in the course of training. The daily drill schedules enable him to always arrive unannounced and unexpected. When he knows his regiment once, he will soon be able to lighten his task by appearing less frequently in the squadron which works correctly according to his
notions, and perbaps more frequently where his adrice seems more necessary.
H. This is practicable with the regiments which are united in one garrison. Nearly half of the German cavalry regiments are more or less seattered orer several garrisons. The War Department grants the regimental commander travel allowancey fior a limited number of travels for inspecting optlying squadrons.
S. What of travel, of expense, of allowances? The commander rides over to the other squadron, inspects the service, and rides home again. He ought to be ghad to mount his horse frequently and make long distance rides. It will keep him fresh pad habituated to being on horseback.
H. In any kind of weather also?
S. Has he not to be on his horse ill all kinds of winter weather. in war? The man who cant do it in peace camot commamd a regiment in war. This daily habit of remaining lons on horseback preserves the caralryman as such, and averts pain in the spinal column which a single great exertion in war may bripg on.
H. I believe your demands on the commander are too severe, as he will have attained a certain age before reachipg that grade. Not every regimental commander can remain so fresh as to ride bareback in the chase ds those two generals last foll at Hanover. If every regimental commander ingrapable of this feat were declared unfit for service, our regimental commanders would eventually be too young to bring to the position the requisite experience in the details of training, and we should lose many a commander who, on account of his experience in matters of riding, is of inestimable value. You said sourself that one never learned all there is to riding, and that a good rider aqd instructor needs years of experience.
S. In a long peace it would likewise be impracdicable, and too much of a draft on the pension appropriations, to have none but young regimental commanders. The management of service and inspection should therefore be so arranged that all dfficers are confirmed in the habit of remaining long in the saddle. At present our peace service is not suited to produce enterprising commanders. At a certain age (forty to fifty) the officors confind themselves to the most indispensable requirements of the riding service. The indispensable is not sufficient to keep them in practige. How many officers stand dismounted in the hall for six months? When the habit of riding is relaxed, the delight in riding re axes; also the dash and delight in fighting; and when at the outbreak of a war
such a leader has to ride. it is an exertion for him: he has pain in the back, and takes no delight in war. If the service were mathared as I wish, all officere would have to ride daty, rain or shine; the superior also would have to inspect in all kinds of weather. As long as they remain in the service they would remain in prace thee and would not become prematurely old in bowly a- well as in the manner of thougtit and action. Thestudy with its desk is not nufficient for the soldior. heast of all tor the cavalry lealer. He beInges on horseback. But in our days eren the lieutemants become disused to riding by their duties as dismonted instractors. by drivbug condemned horses. and by the vicinity of railroads to the sarrisoms. The excursions of former days fier visits in the nefighborloned and the return at night had much that was instructive and practical tior cavalry officers. No particular interest in that direction exints today.
II. There is interent hut wo promtanity. That there is intwrent win may ser from the listancer rifes.
$\therefore$ This substitute is unfortunately indulged in by the young man alone. The par force chase would have to be made ohligatorys. It would be in the interest of the older and hiphest ofticers. as it would keep them vigorons. They are a splendid preparatory selowol for caralry leaders to learn how to find their way in the terrain and form their resolations quickly. In the presence of the enemy rou cannot rely solely on scouts, patrols adjutants sent to the front. gou must ride forward gourself and inspect the terratin it you wish to profit by it. The officer who learns bow to orient himself in the par forct chase will be a reliable leader to his trooks in the terain. That shouh not be underestimated. Whany rate, it will raise the confidence in ones own power and enterpise: and the regimental commander who has ridden in the chave it the fall will not find the detarhed squadrons too distant to risit them an horse. back though there be a railroad.
H. Many garisons of single squadrons bie so far apat that it is absolutely impossible to risit them as oftem as indicated by you. Ploss, for instance, is two dass dinamt from reximental headquarters.
S. In that case it only remain on take the cars to these garrisons to inspect them. Still. it the commatder is imbled with zeal and interest for his position, he will uot retrain tron visiting these garrisons at his own expense oftener than the godernment grants allowances.
II. Certainly, if he has means of his own. Our ofticers are
accustomed to spend their private means on the service. Nat evers regimental commander has privase means, but most of them have families. You would not make the qualification of a regimental commander for his position dependent on his private means?
S. Well, if it is impracticable for the regimenta commander to visit some of his squadrons frequently to witness the individual trainipg, he must apply the method of frequent inspection suggested by me to those squadrons alone which are at regimental headquarters of in close vicinity. The more distant squadrons he would only visit as often as he is granted allowances for. In thal case hesbould remain for some'time with each squadron, and inspect the individual riding in this manner that no exhifbition be made for his sake, and that be simply witness thecinstruction and never fitness more in any one day than he is able to obserse closely with full and fresh attention. ।
H. How do you wish the brigade commander to inspect?
S. The regulations make the regimental commader responsible for the individual training of the regiment, as gqu reminded me yourself some time ago. Hence, the brigade conmander would never during the wintor course of training have anything to do with the details of the riding. Acdording to regulations he inspects the formed squadrons. On that odcasion he may take some riding squad and have it perform anything be chooses, down to individual riding of the men of different contingencies. I do not, howerer. wish the brigade commander deblarred from witoessing the individua training of the squadron. Any body of troops ought to be glad of, and see an hopor in, the interest manifested by general officert in the most minpte details of their service. If, in doing so, the bifgade commander desires to get a correct insight in the indi. vidua training, and exercises beneficial influence, he should be presedt with the regimental commander when the latter wituesses the individual training of one of hils squadrons. He will then perceive whether the regimental commanders action is in the right direction, and will have sufficient opportunity to equalize differences of opinion. If be sees, that the regimental commander's method is correct, he need make: no further inspection of detail in that regiment.
H. Take now the division commander.
S. The division commander who is interested in the details of training may do like the brigade commander. He will probably have to limit bimself to witnessidg the individual riding of the squadron of each regiment of hif dirision per year. His other
duties will hardly leave him time for more. Nor is more dequired. He will get along with less. if he except those regiments whose commanders, by their methods, have previously gained his lunqualiGied approval. If, bowerer, the division commander colpes from another branch of the service as is the case in many mided divisions, his inspections of details of riding have no ralue for the troups but that of the honor done them by his presence.
H. I was from another branch of the service: still, as pten as I could. I was present at the detailed riding inspections of the caralry regiments of the dirision commanded by me. I did it for the sake of seeing and learning.
$s$. Then. it is true. The troops will hate another. indired benefit from it.
 borse provilled it was arery dexmble amimal amb bad only a very small brand mot lamere that there inches and mot conspicaous.

They bought atabos. maton and deldines. but pretered mares
 longer: 3 . (an pertiom more work on leok kerp: th. Withatand more hardship than horses; Eth. They hing a hetter price when condemmed; fth. Are satil to be more ibtelligent, ith. Hore amon. able to instenctions and drill: Sth. Call endure the climatio extrames better: and !th. Less liable to disease.

They were particular that the head ahomble be sath and nicely set upon the weck. If the head of the home whid not be flexed on its neck. the animal was immediately rejocted. Fixeoriated mouths. lips and cars-injuries from curb-strapand bits. formed a frepuent source of rejection, as animals thus attected invariably resent all attempts at any grymastic instractions which incolve their monthe, as sup pling their neck. altering their center of gravity and hase of sup. port, etc., etc., so necessary to the trained caralry charger.

The commission parchased in all two humed horses. shippins direct to France, via Bahtimore, their immediate destination beilly the cavalry shool at Samur, where they are to underse a coure of taining previons to being distributed to regiments.

In making a purchase, the price of the home having been agreed upon by the commission, it was offered, and mo hope of a further ativance of this was ever ebtertained. such a course being strictly forbiden by their armer regubaions; a very wise arrangement. m my opinion, saving both time and tronble Each animal accepted mint measare at least sixty-nine inehes chest circumference at the righth rib.

The commission selected Indiana as their hase of operations. after visiting many other stater. owing to the superiority and areat
 It was a clear case of eputtine the parson in the ecoler of his parish." fire although the rejections were prohably eisht or ten to

 motwithstanding recent official statements to the contrars Partic. ubar attention was pad to the gait, the walk trot and gallop inained upow. bo other gat accepted. Horses with rertical shoulder, ami short pasterns, and sway backs were rejected on sight.

The moduc operadiof examination wan as tollows as per French ariny rerulations:

All harness was removed and a halter substituted for the bridie. the horses being placed on a perfectly fat. level plot of ground. Then all the members of the batrd, each acting independently. proceeded to examine the animal with rerard to his conformation, one prominent tatilt being mentioned, as atraight shoulders. short pasterns. crooked limbs. ewe neck, big head. whort neck. hish witherhollow back of the shoulder blades. sway hack. weak loins. badly

## AMERICAN HORSES FOR FRENCH REMOCNTS.

 [ Regimental İtandard. iDuring a recent visit to Indianapolis, Ind., I beard, by a fortunate coincidence, that there whas in that dity a commission of French ofticers engaged in the purchase of horses for the rarious mounted branches of their military service. Not wishing to lose such a valuable opportunity, I quickly sought their acquaintance, and was very conrtebusly received.

The commission consisted of three field officers, representing the artillery, caralry and reterinary skaff, respectively: My confrere, fortunately for me, spoke Einglish firly well and acted as interpreter, in addition to bis professional dufies, which were onerous in the extreme. His advice and opinions were decisive, not only on the subject of soundness, but on the horse generally; conformation, quats. action, etc., etc.

If any one member of the commission objected to a horse, it was immediately rejected, and before being led array a slight rertical line of hair was removed from the near side of the neck by a snip, of the scissors, so that it could not be again presented, for some time at least. Everything was done methodically and quietly. My confrere informed me that the method of examination and putichasing were minutely laid down in the French Army Regulations.

Althougb the purchase money allowed by their godernment was about 8150.00 for each horse, the commission was allowed much latitude, for I saw horses purchased for from 8110.00 up to $\mathbf{8} \mathbf{2} 25.160$. In fact, they did not let a good, desifrable horse go away from them if it was possible to get him.

The horses parchased, being for various branches of the service. ranged from fifteen to sixteen hands high, and from 900 to 1,150 pounds in weight. The small borsh being for light cavalry, as hussare, whilst the larger ones were infended for heavy cavalry allil the artillery.

They were extremely particular as to the anatomical solundness and freedom from blemighes and ufire cuts. They also objected to

The produce of stallions. owned by the French amined annually. The produce of stathons, owned by the frome mares. the property of citizens, are purchased at sovernment, from mares when three veare old. if fit for military service. It France horse breeding is directly encouraged by the wovernment oftering annually enormous sums as prizes

The beneticial results ot a course of instruction on equine con formation, etc.. etc., which every mounted. officer of the French service undergoes. was apparent at a glance. At a word or sign a rejected horse was remored by the attendant (a French soldier). The usual expostulations, praises. etc.. of the would-be horse trader were conspicuous by their absence, and event when indulged in, did not receive the slightest attention from the commission.

The horses intended for the French service are bought by special committees under instructions from the Minister of War: Army horses are divided into three classes: 1st. Horses de carriere, for the equestrian sehools: $2 d$. Staff horses for officers: and 3d. Troop horses. the latter being divided into reserve, line, light cavalry and artillery (saddle and harness). and are dintinguished according to their qualities as very good, good or passable. The schedule price is neither minimum nor maximum. but is looked upon as repre. senting the value of a good horse in each category. It is understood that a sufficiently large margin is left to the officers of the remount depots for the practice of economy, either by encouraging the production of good horses by paring more for them, and in order to give a proper value to animals that are difficult to obtain. and which might be in private demand.

Staff horses are classed as follows: 1 st. Ordinary-rearalar conformation, medium neck, sufficient power and speed, large head, white color, washed mane, tail or coat, and slight blemishes are included; 2d. Good-sufficient breeding, a good neck, regular conformation. strong body and members, good gat; 3d. Very good - good breeding, good conformation, fine, expressive head, a beautiful ehest, strength, good members, prominent tendons, brilliant gait. The price of an ordinary horse is seventy-five to 150 francs lese than a good horse, and the value of a very good horse $1(10,150$ to 200 franes more than the average. The price of a grey horse is one-eighth less than his class. These data convey nothing absolute. and are only points of reference.

Troop horses: 1 st. Passable-mediam conformation, defects of equilibrium, want of chest measurement or blemishes; 2d. Good -enough neck, strong body and members. sufficient weight, harmonious conformation, good action, fair physiognomy. solid coat and energy; 3d. Very good-a rood physiognomy, neck well attached, good body, beautiful chest, good members, fine coat, powerlong gaits. The passable horse, of which a limited number should be bought, commands one-fifth less than schedule price, and the good horse fifty to sixty frances less than the schedule price, while the very good horse is sevouty-five to one bundred francs more than arerage. The grey borse is one-eighth less than bis class, and the purchasing of this color should not be encouraged. being unsuitable
that at little alteration and experiment as to proportions will correct the difficulty.

The opinion prevails amongst thoughtful offorers tbat civilized warfare of the future will call tor much rapid work from cavalry. In this case the loats must be redaced, amd the first thing which attracts the attention is the size aud weight of the saddlebags. The large size of the batr is a temptation to soldiers to orerload them with unnecessary articles.

It has heen discovered that the blue cartridge belts issued with the new magazine rithes do not hold their colot. Inasmuch as these belts are for full dress as well as field use it whould be insisted upon that the dye used should not only be of absolutely unitorm color. but that it should be wo fixed that mo faling will take place. Some men tase their belte constanty for drills, parades. ete., while other are on such duties that they only turn out occasionally. The result of poor dyeing will be t.. whibit gratt latek of uniformity at all in spections and other daties requiring the presence of all the men in ratnks. It is believed that a little experimental work ly the ord nance Department bow will save much complaint later on when the new belts have been issued to all regiments.

It woald not be extratagance to provide a dark blue sadille cloth. to be worn orer the rrey blanket at full dress ceremonies. e... pecially at such posts as Forts Myer, Ethan Allen, Sheridan. Learen. worth. The Presidio and Jetferson Barracks. If this cannot be brought about it would be a gool idea to try a few dark blue blankets to test them for apmarance and durability, in comparison with the erey blankets. The Ordmance Departurent is usually willing to make ang experiments or changes which any arm of the service unites in recommendiner as likely to produce good results provided appropriations admit of it. Instead of asking for a board to consider such things, cavalry officers wonld do well to make individual experiments upon the various parts of the equipment and uniform, and commanicate the resulte the tervice for consideration.
W. H. C.

GERMAN AND FRENCII CAVALRY MANEUVERS.
In . The Autumn Maneuvers of 1894 ." from the Military Information Dirision, there oceurs the following observations of the German caralry morements September llth
"Early in the day there was a severe rain, and all the troops were net through, but the weather made no difference with the maneuver. In the charge of Cavalry Division ' A' against the right of the Thirty-Fifth Division, on part of the pround the fences had not been removed; and dismounted men were sent forward to clear the way. One was a three-barred fence, and it took some time to remove the two top bars. As it was in sight and range of the enemy's infantry this would have been diffeult, if not impossible, in war. Five horses in one brigade were killed here. Une fell into a ditch and broke his back. Four were impaled on the bars of a fence, which, lying on untake the rear rank horses in the breast or belly.' A nother brigade charged
over some fallen timber and stumpe, where several accidents orcurred to buth offerers and men. Their double ranks and lances make maneupering in such ground difficult and dangerous. Byt the good training and great gentlentess of their horses enables them to get through such orileals wonderfully well.'

The following description dif the President's review of French cavalry occurs in the same repdrt:
"After the passing of these auxhliary services, and when they had comtpletely cleared the ground, came the cavalry at a gallop, tach brigade heale-d by its trumpeters consolidated and sounding a charge; these did not leave the column. The formation pras in colymns of brigades closed in mass, each of these divisions followed by its two-hprse batteries in line, also at a gallop, ani parried lances with small pennant The front rank of hll the dragoon squailrons had not been used. It could not be heen that any material gain or lossinulistances or intervals occurted among the subdivisions of either infantry, artillery or cavalry during the march pask.
"Having all passed the reviewing officer, the cavalry column was heade-l on ward the left and again formed intas a double line of masses, with the center opposite to and about $1, \underline{0} 0$ yards frown the President's stand-
"The cavalry aligningnts were rapidly perfected anil the horse batterias grouped on either flank of the combined divisions in line. the seventeten regiments and six batteries then advanced at progressive caits, headed by General de Gallifet, all with sabers drawn. until at about boo yards from the President, when all took the charge and moved on to within sixty yards uf the stand, when they halted by ong grand, simultaneous movemient at the. signals of the officers leading them, bringing all sabers to a present arms. The
gnments, intervals, and distances had been exceedingly well preserved
" There were five regiments of cuirassiers, tive of dragoons, six of chis-
and and one of husears in that mass. This ended the review and the maseurs, and one of hussars in that mass. This ended the review and the ma-
neuvers."

## THECAVALRY MANECVERS.

The cavalry has been coming in lately for a good deal of uotive. We have now before us the criticisms on the cavalry drills held recently at Aldershot under Major General Leck. There is $m$ denying that in the past the caphlry has suffered considerably from a want of friends. It is a service which requires to be well in evidence. The more it asserts itsel the better will it be respected and cared for, and it is gratifying to see that the public is beginning to comprehend the conditions under which it exists, and to take a more intelligent intereat in its nelfare. The critic of the Times sums up the wants of the cavalryjin these words: "Stronger squadrons, drifl grounds to train squadrons before comingt tofte maneuvers, annual maneuvers," and heludds, "a determined add practical Inspector-General." The last we have got, and the others should not be difficult to obtain.

But this brings us back to the truth, which the authdrities seem rather slow to recognike, that not only trained men and horses are requinite if maneuvers are to be profitable, but a full complement of both. That is, however, what fo do not possess. As soon an we have an nvailable force capable of carrying out an annual maneuver
with adrantage to itself, the arrangement should be made permat nent, but as has been repeatedly pointed out in these columns, the first requisite is a perfect and complete force of men and horses. It is useless to adrocate annual maneurers, essential as they are to cavalry training. until we have troops capable of being maneuvered. The concentration of more regiments at Aldershot each summer would at least partially and temporarily neutralize the evil of insutficient drill ground, from which in sn many stations our cavalry resiments suffer, but it cannot be too strongly insisted on that the first step toward improvement is to increase the establishment of regiments. Withont this no other measures will be of any value.

A depot squadron would seem to be an aboolute necessity. There are in every regiment oo many men and horses that are from one cause or another unable or unready to go on active service that 10 indude them in the ratis is to introduce an element of weaknes. and to court failure. The depot squadron. on the other hand, is an element of strength, as it withdraws from the fighting body eversthing that is unfit, and gradually prepares the immature for active work. Another matter for reform. closely connected with the toregoing. is the absurd proportion of dismounted men. It is a mistake', to suppose that dismounted men are a neeessity: their place car and whould be supplied by reserve men.

In point of fact all the best opinion appears to be gravitating towards the idea that a distinct corps of orderlies should be formed. and that horse soldiers should thus be relieved of all buc their proper military duty While the efficiency and readiness of the rank and file would in this way be promoted. there ought to be some special training for the officers. Whether it is to be obtained by means of a separate establishment like Saumur, or by forming a special class at Sandhurst it may be premature to say, but there certainly should be some distinction between the preparation of an infantry cadet and that of one intended for the cavalry:

Another point which has been brought prominenty forward of late is the enormons adrantage conferred on cavaly by the superion speed and staying power of the horses. It will, therefore, be necessary in the near future to find ways and means of improving our cavalry horses in breeding and styde, while at the same time their load nust be somewhat reduced. A word nuay be said in conclusion on the unmeasured condemnation pronounced on this arm by certainly not the most accomplished nilitary crities in the press. We are very liable to go to extrenes when once we have begun to find fault, and the spirit which gives rise to that kind of writing should be sternly discouraged. As a corrective pothing could be better than Baron Salvi's friendly remarks, which we reproduced last week. The truth is that, individually, our men and horses are unrivaled, but there are too few of them. Our duty is, while main taining our riding drill and individual smartness at their present high standard, to proride for the collective training by which alone this arm can make itself felt on any important occasion. - Army and Navy Gazette.

*     *         * It has been frequenily urged that we should copy Ger. many in the administration of out mounted forces No doubt siluc the Franco:Prussian War, the German cavalry has been raised to: a high pitch of efficiency, but us far as management of the stable. manège, or barrack routine is concerned, the Teutonic model otfiew no particular adsantages. The ferman system, however, of training recruits in batches of about orty men, under the supervision of one officer and threo specially folected non-commissioned officers. will put to shame our negligent hethod of "off handed instruction. rendered by any drill sergeant who may happen to be available. Many of the duties which fall to the lot of our senior sergeant or corporal are performed by the German officer, and this causes him To take a deep and intelligent ingereat in the drill of his squadroms: moreover, he is proud to note the progress of the men under his charge. We have mutb to learn from their system of ". ilient drill" (which was commendably eulogised by the late Colonel Branabs, for unnecessary shouting and coontinued galloping up of adjutants. coupled with the harsh notes of the bugle, and hoarse objurgations of the colonel, are practices ungnown in the German army. The English adjutant, moreover, we' maintain, is allowed far too mucli power as compared with the squadron officers, and it hay also beell not inaptly stated that in many gavalry corps the sergeant major i, permitted to exercise very nearify as much anthority as a captain. In our opinion, the captain should be allowed more latitude and re. sponsibility of action, not only in the training of men and horses. but also in promotion, reward and punishment. Of courfe, the fore going must not be taken as the thpe of all regiments, for there are colonels who do concede this prifilege, and a sensible captain who is up in his work will certainly fot brook undue interference. A. far as subalterns are concerned, we feel tolerably certain that there are few who cannot give points to and beat their Rhinelarld brothers. in-arms in all that appertains to outpost duties, patrolling, toporraphy and reconnaissance, and we need bave no fear on this score as long as our cavalry fegiments ire officered by those to whom field sports are as second ndture.-Admiralty and Horse Guards Gazette.

THE GERMAN AND FREACH MANEUVER ARMIES COMPARED.

*     *         * The French took aldo less pains to screen their guns from sight, while the Germans, if ime allowed, would run up a little embrasure, cover the front with grass or straw, accopding to the crop, and not let a mah show bis head over the parapet. The same rule applied to the German infanty. In an instant the apades were at work, a trench thrown up, and the work concealed by every imaginable device, while any indifidual failing to squat quite low down ont of sight was certain of frompt and severe reprimand. On the other hand, German troops affe not encouraged in adpancing to
the attack to seek corer separately; that is the business of captains and commanders of sections. The object aimed at is rapid anid c...1. tinuous adrance. the reserve going forward to beat of drum in close order and sometimes in that "parade march," which in the matter of mascle exercise is so highly valued. The French system of attack is not dissimilar-always on the mose, line pushing forward line, but much looser. One of the more remarkable things about the Germans would appear to be the extreme quictness in the ranks. Every man is so trained that he knows what to do. There is no: excited shouting out to this one or that to lied down or right incline, to close in or open out; no aides-de-camp gallop about with contradictory orders; all is method and system. The same silence is not found in the French ranks. There are however. few words of command in extended noder; the whistle doen everyhing. The Germans have discarded rolley firing. What may be sased in ammunition is lost, they think, in the desire to produce agood volles, and the nerrous wating for the command, $\cdot$ Fire, after the sightw hare been aligned with the object. Independent firing is invariable, although tregently restricted to named files, abd especially to marksmen. who wear a braid badire from chest to shoulder. The French. on the other hand, tire volleys, except at print-blank range, and their fire discipline is rood. Neither army will have anything to do with flar signaling. The (iermans make but a very limited use of the bicycle, while the Frenel employ it largely. Stretcher bear. ers were not organized in either maneurer army, bat the French ambulances were excellent. Every effort is made in both services to prevent ally aroidable reduction of the fighting line, which is in England so terribly attenuated by extra regimental and half independent services. There was no attempt even to provide the men with water by means of horse barrels.

As regards the cavalry, what the French gain in better horseflesh they lose in riding and dash. The German ublan is well known, but all descriptions of their caralrymen carry the lance, the pennon being furled while reconnoitering. The French borse soldier still wears the baggy leathor overalls said to have been invented by Marshal Lasale, and they give him a clumsy appearance both in and out of the saddle-very different to the German. The German work is almost wholly by sqairons, even in the charge, and the effect of squadron after squadron coming on has an undoubted influence upon opposing intantry. When fort ${ }^{\text {s }}$ squadrons charged the infantry of the Third Army Corps near Stettin it appeared terrible to noe standing with the later. German cavalry charging German cavalry go right home into the opposing line, and are ordered by the drill book to charge through infantry if it call be done with safety, and in any case only to wheel at the very last moment. There can be no doubt that both French and German horses are more higbly trained and docile than ours. In the German army this may come from overwork and poor tood, but with the French tbeir horse condition was splendid.

The Germans had two captive balloons at work - one of the or
dinary type, the other of the elongated pattern-at a height of 411 metres, an officer working the telephone to the detachment. The French had one ordinary ballood. But, apart from the moral effect the general opinion is that balloons are of comparatively little value save in the most fadorable atmospheric conditions; the oscillation in the slightent wind is tremendous, and mistakes are easy unles the country is thoronghly knodn. We have reserved to the end the answer we have obtained to the great question of the discipline in the two armies. In the German service it is perfect-rigid, un bending. The officer lives, eats, works, and, for aught we can grather to the contraty, sleeps, tightly buttoned up, begloved, his sword on, a picture of military precision. He is forever saluting or returning salutes. He knows no ease, no relaxation-is the officer and nothing but the fficer, the twenty-four hours through. Respect tor him there must be on the part of the rank and file-love is another thing-and the outward signs of it are never relaxed. omitted, or forgotten The French officer, on the other hand, is a bon enfant. His swotd is an instrument for parade, and he takes it off the nibment he can, unhook it when skirmishing or if it is in his say, rarely wears it in the street, and does not trouble much about glqves. There is saluting, but it is more or lest tittul, and rery difforent to the smart and respectful attitude of the German. It is also easy to see that it is more or less grudgingly given. There is probably much more rapprochement on the part of the French noldier toward his officer than in the German service. The difference in social rank is less markd, but it is accompanied not intrequently by reply, observation and familiarity from the ranks. The sergeants sometimes find it vers difficult to maintain their position and authority among privates, many of whom have easy means and are people of importance in their native districts. It is also open to question whether the presence of these, if of a leveling character does not give rise to some discontent among their ordinary com rades, who think themselves pldced at a disadvantitge in the matter of food and duty, and to some. drtent the suspicion is possibly well founded.

But to the credit of the whole profession of arms it must be recorded that none of the foreign officers who attended the German maneuvers, and none of those who attended the great French assembly, witnfessed any drunkenness or disorderly combluct on the part of any foldier.-Army and Navy Gazette.

## AUSTRIAN CAVALRY

The strength of an Austrian or Hungarian squadron of cavalry. apart from non-combatants, is nipeteen officers and non-cbmmissioned officers and 130 men-that is allogether 149 sabers. The troops engaged at thi autumn's maneuvers were at their full peace strength, which is only one officer short of their strength in time of war. At the Kisczell review, therefore, there were present no fewer than
10.579 cavalry. These with the artillery 1 min and other mervices represent fally 12,0 , homes on the fiedd. There were also presen a total of 15.000 infantry partly of the Line and party Honved The engagement between the two great hostile bodies of cavaley which it was supposed would take place at Zenta, really occurred in the neightwrhood of Kisczell. A wrong roport ot the place of battle appars either to have been given out on purpose, or atteration. were mate in aceordance with the marching and galloping capacit of the troples. For, th show the stricthes of the system pursteni not eren the name of the officer in command of the castern force was known th that of the western half. or ciere cers, before the at taal encounter took place the object beins to prevent any conclufons being drawn as to the strengeth of the enems. The fight took phace half way between Kisczell and Papogz and is describedasthe mont brilliant aftair imarimable. The bathe it wasultimately ruled be the impires. remained undecited The Emperor. who rode his acorite -hostmut mare. Quick-tep, an English thoroughbred. Went wor at exat deal of eroumb gallopites from one part to another. until the or coase tire was sombled. Hi- Majenty expressed great aratification at the admimable condition in which he found lanth horses and men after a lobs abd exhansting mareh. There were -Weral immonations introluced in the operations fior the first time. Thus there were triak of new quick tiring guns carried on the backs of two horses: then agalin. the infantry, when quick marehing, left behind them their knapsacks and greateoats, which were brousht on afterwards by light wagoms; but the principal thing was the reconoitering and rapin movements of the cavalry, amd in this repect the expected result was tully obtanned. Ifter the review 2.200 borses and 5,101 men were entaned between the afternoon and 6 oclock next morning, whilst 10.006 horsemen started to ride in different directions to their several garrisons.

The operation of throwing troops across the river at Zenta. which was pertormed in rarious whys in the presence of the Fimprour Frascos Joseph. on Saturday last, atfordeda spectacle of much interest, for not only were all the watal methods of crossing employed. but several new inventions were also tried. The tronps has convered from the left to the right bank of the Theiss consisted of two regiments of hussars one mounted battery division with welve guns, and one hattalion of engineers. The river at the spot chosen for these experiments is about ti50 feet wide, with a depthat the center of about twelve feet. An army between the Theiss and the Danube was supposed to be on the retreat to Buda-Pesth and pursued by another army marching by the Maros Valley to the river Theiss. The two regiments of hussars, with detachments of in. fantry and artillery, were first sent out in advance for the purpose if reconnoitering and then throwing a bridge over the river by which the approaching army might pass to the opposite bank of the atream. The other bank was supposed to be still held by small hodies of the enemy, intent upon delaying the crossing of the pursu-
ing force, all the permanent bridges being destroyed and all meallis of transport taken away.

Rapidity of action being the primary aim, it was resolved to bring orer the two regiments of hassars, the artillery, and the rest of the force by provisional expedients, and only after the position on the right bank was becured, to lay down the bridge in the usual way. Scouts swam over from bank to bank, exposed to the hostile fire, and several spots were tried until the best was found, when the different appliances, old and new, frere made use of. Light cancas boats, like those quite recently used during the fierman mamenvers. were employed, but no bridge was formed of them with aid of stakes and planks, as they were supposed not to be available for that purpose. Water-tight haversacis of the ordinary size weremploved. which, when emptied of oats, were quickly filled with straw, hay. and so forth, and they were so boupd together as to be raterproot. Four such bags were, with the help of three sabers combined into a raft on which tive men could sit in riding fashion. the first of them provided with a pole to steer, whil the horses were led swimmins. On each side the preparations toot exactly eight minutek, aud the crossing eight minutes. This, with two minutes allowed for resadding and mounting, makes eightelen minutes for five caralry soldiers to ride away fully equipped, on the opposite bank of the river. Another batch tried the air-tight ${ }^{\prime}$ nflated bags, rather larger than the former, sif of these being unitqd into a raft. This, with plank. laid over it, was steered as in the former case. Another axperiment was the formation ofregular boatsfor twelve or fourteen men with arms from the haveraakks, stiffened with iron bars or by a sufficient number of caralry swords. Thes boats were also formed out of eleven inflated air bags, and the gens were brought to the other side by one available pontoon hanging on a steel wire, and crossing to and fro. Another experiment was sending over horses in groups it thirty-five or forty at a time. The animals were led into the water by men swimming on the inflated air bags until deep water was reached, when the men returned to shore, and the horses, seeing others already on the opposite band, swam over without hesitation. By all these different means the tho hussar regiments, the artillery, and the infantry, were all taken to the other side within three hours. The opposite bank being now supposed to be secured, the throwing over of a real bridge was dispensed with.

The Emperor then beld a revieto of fifteen and a half squadrons of cavalry, together with infantry and artillery. The spot where these operations were carried out vas the same where in 1697 no fewer than 20,000 Tuyks were sldin and 10,000 more driven into the Theiss and drowned, within tho hours, by Ficld Marshal Prince Ecgene, who was then only thirty two years of age. The Emperor and the troops had that event constantly in mind, since the throwathd the troops had that event congtantly in mind, since the throw-
ing of a bridge over the Theiss wal then as now the turning point ing of a bridge over the Theiss way then as now the turning point
in the operations, and as the cavaly decided the battle in the way that dismonnted dragoone stormed the Turkisb ramparts built for the protection of a bridg , and tha the riders, swimming over the
river and making use of several sandbanks, suddenly appeared in the rear and caused a panic in the ranks of the Turks. who at that time were commanded by Mrstapha II and his Gimad Vizier. Army and Nary Cidzette.

## MILITARY OFFICERS: PASTC. PRESENT AND FITTCRF

We may assume it to be axiomatie that the excellemere of other wise, of any army as a tighting machine-its proper vorationdepends upon the excellence, or otherwise of its officers. The very recent examples of either aspect of this question, afforded during the late Chino-Japanese War. furnish us with the most significant of illustrations. So one atquainted with the aptitudes and tirmness of the rank and file of Chinese trops can doubt but that, when well commanded - being also well armed and equipped-they are cal culated to grive a food account of themodres. Of any intuitively great commander in whom the promptest military saracity 'or orm, daid, is a gift of genius, it may certainly be said -mples meseitur nom fit: but. between even such a horn leader and the rank- - in these days of highly scientific resources, when the officers in every army worthy of the name have hecome on muth more cultivated that heretofore it is unguestionahly indispensable that the officers of all mrates shonh be thoroushly imbued with general knowledge and technically trained in military science administration ambevolutions.

Now, within the lant thirty five years the organazano exeremes and general conditions of the service, in our own little army, have undergone a complete revolution. The late: Prince Consort, when wo doubt, derived a good deal of insparation from the Prusian modelat that time the best concerted in Earope and in the word - was amongst the tirst to point out the defects of our system. and to sive an impetus to improvenents. Which, alhough they shorly atterwards came to be taken up with zeal and earnestness by one atter another of the more sagacinus military minds, then mei with but scant encouragement either from the protexion or from the successive state administrations. But, thereupon. succeded firatly, the lamentable spectacle of our shortcomings in the Crimea. to be shortly afterwards atcentuated by the Imdian Matiny, \&radually leading us up to what we may term the Carnwelis era. To the Pribce Consort we had become indebted for the institution of taining camps. to Lord Cabdeell for complete reconstitution of wystem, notably in the preparation and appointment of officers, which. of necessity, passed on to improvements in the condition and discipline of the rank and file. Preparatory, soand and complete general education, followed by competitive special examinations for the qualitication of candidates for commissions, following the abolition of the purchase nystem and selection through influence and patronage, introduced young officers of totally different cuitivation, aptitude, tastes and habite into the service; in which, moreover, they were immediately subjected to much more careful and complete technical taining in
strictly military duties and exercisen, whether in quarters or in the field; whilst the training camps andannual mancuvers in combinai field; Whilst the training camps ard annual mancurersincombina.
bodies-not mere regimental parades and drills-prepared thom wodies-not mere regimental parades and drills-prepared them
for the necessary concerted tactidal action in the morements of tronps in actual hostilities. It watho longer a je, mesere done. whet her of rank or wealth, exclusicely, thet supplied our arme with rear mental officers, and who, many of them, treated or went throuigh their routine duties in a sort of yed-nay, perfunctory way, rather aa borp than as a study, and everst earnest oceupation as irksome but mostly young men of cultivated tastes and acquirements, with a keen relish for their professional add other intellectual and invisorating athletic exercises. Such ard the men by whom out army is officered now, as compared with those by whom it was ofticered before the Cardwenl era; and whethar or not the system be dalculated to incite military genius to brillian strategy or taclics, or both, and thus to bring about such master-strdkes as Plassey. Asoave, Waterloo Meeanee, Sobraon, Sadowa or Sedap, and no forth, it is calculated w furnish the essential components in datail of armies upon which great commanders can implicity fely to accomplish such achieve. ments; and what is equally importhat, it contains within itself all the elements of progressive improtement.

There is also another point dese ring of consideration with refirence to the higher general, as wh as the more caretinl hechnical education of officers, apd it is te|Fs: the prosress of compulsory popular education has developed famongst those who till the ranks -a whole class of men themselves sufficiently instructed to be intelligent observers, if not critics, of the capacities or the fncompetence of their officers - bo that the due authority of the latter orer their men, and the respeqt and estegn-promoting confidence, whirh is everything-which they inspite in their men. and upon which good discipline and consequent efieiency chiefly depend, can only be assured by officers whose suptrior qualitications are manifest. For the like reason it is that many of the antiquated ecolutions. drills, regulations, and sb forth, haye been swept away, as not only wearisome. but even embarrassing; and the technicalities of the service throughout hare been rendered more consistent with the aptitudes of officers whose keener intelljpence has been exalted by better culture and more utilitarian training; whilst the habits and pursuits of officers-in proportion with a firber tone of tastes-apd their devotion of leisure either to healthy sports and pastimes, or to pleasurably usetul studies, have been porified of the pernicious mixture of blank, languid sloth, vicious ifdulgence. and other practices which used, formerly, to be resorted to for the relief of ennui-in India especially - and which too offen culminated in the utter ruin of many and many a subaltern. The frightful amount of reckless gambling awich used to be the pretailing recourse - to make away witb wearg, vacant leisure, but tod frequently resulted in the most discreditable expedients or artifices to obtain money required to dis. "harge so-called "debts of honor" arising out of "blind-hookey."
etc.-has. to say the least, become quite exceptional. Whereas, nuch were the leisure pursuits, heretofore, of a large proportion amongst the subaltern officers of marching regiments and of crack corps of cavalry ; that is, amongst young officers whose antecedent cultivation and associations had rendered their repertory of rational recreation a blank. Amongst officers who had worked out their positions, whether at Sandhurst or Woolwich—lhat is, who had acquired a taste for the study of their protession (as larige numbers of officers under the new regime have done - in the course of their antecedent education or who had emriched their minds to qualify for the scientific branches of the service, the failings in question were rarely. if ever, noticeable; and, latterly, they have almost disappeared from messes and from officers' quarters. On the other hand. it would, we believe, be incorrect to affirm that voung offeern now are less extrav agant in other ropect- than they tormerly were: on the contrary indeed. the spirit of ostentation. which is a provaling rice through out latter-day society. is tramsported with them, by youns officers, into the service in compretifion with atch otler. it may be inter. esting, however. to scan a more remote retroseret of onr military history, because, with all one samiration forsuperior culture one camot deny that British soldiers acomplishen sueh great vetories as those of the Netherlamds. under Marlborotab. When many ofticers were little, if at all, better edncated than any illiterate conntry boors of fifty rears ago, and when we had no standing army, and our fores wosisted of a mere militia. And as our staming army dates batk only to Wabpole's time-say. litale more that a contury betore the Cabowele era-and during that time we have beld our own in a gradually expanding Fompire. and throughont potracted wars and many a critical campaign, whereas we have had mo adequate opportunity of testing the superiority and the efficiency of our new (or second) period and system of military organization and trainins of officers, we are not quite justified in assuming that we have actually enhanced our prospects of victory in cane of serious contlict. It most be admitted that, in most cases in whichour arms have been triumphant, the secret of such triumphs has to be sought in the pecaliar Anglo-Saxon pluck and persistence which inspirce British soldiers with a predetermined certanty of success. a charateristic which was well expressed by Napoteos at Waterloo, when he petalently exclaimed, "Confound those English! They don't know when they are beaten." It is very well to instruct a young officer how to provide for all the emergencies of camplite, as, Well as in rifte whooting, outpost duties, reconnaissances, the construction of field works (or entrenchments) : but all that will not necessarily endow him with the verve of preassured vietory. The ditterence was lacomically and foreibly put by Lord Lawnence when he somewhat sarcantically addressed the general in command, near Delhi, who was entrenching his camp instead of hastening to the asount, in the brief dispatch, "Clabs are trumps, not spades:" With all these reservations, how ever, the fact still remains that, given equality of matural intellifroce, the goung officer who has tirst been thoroughly well and
diversely instructed at bechool, whb has next had all his technical military duties and exercises carefully inculcated atter joining his regiment, and who has lastly, beep well familiarized with life and movementa in the field, in a camp of instruction and periodical maneuvers of collective forces, will bhere acquired more of the capacity to make a good regimental officer, apd, afterwards, a good commander, than one who has not had the benftit of such adrantages; and now, as latterly and henceforward, it bis been rendered obligatory upo" every officer that he shall be famfiar with all such acquirements. experiences and tests of his intellidence, practical knowledge, skill and endurance. - Admiralty and Alorser ciurrds Gazette.

A RECORD OF EXPERIENCE WITH THE FIELD SKETCHIN: CASE AT THE INFANTRY AND CAVALRY SCHOOL
The field or cavalry'sketching case, as it is familiarly called. is a device for use mounted, whereby an intelligible sketch of a road and adjoining country may be quickly made. The original kase was but an adaptation of an old style phane table with its rollers for carrying the paper; from this origin it has developed somewhat until now, as made at Frankfort arsenall, it appears nearly in the form shown in cut.*


The sketching case is intended merely as an aid in certain varic ties of rapid work, and is seldom uned where time and more accurate means are available.

There is no question but what the exact instruments 中ould be used in military map making if time and circumstances permitted, but in making a rapid reconnaignance with report of the route traversed it is very evident that imstruments must either be entirely dispensed with or be of the simplest character. Any one, with a

The new regulatlons, par. 46 , require the Engineering Department (corps of engineers
to furnish sketching camea, and itis understood that bids for them are now beling livited.
little technical knowledge, accurate instruments and plenty of time. can make a fairly exact survey, but the difficulties begin to multiply as soon as the time becomes shorter and instrunsents fewer.

To be at all successful with the sketching case one must be perfectly familiar with the construction of scales, with the principles of contouring and with plane table traversing.

To be skillful he must be a good judge of distances, slopes and beights and at the same time cultivate what is called ${ }^{-a}$ good eve for country." that is, be able to see and appreciate the fact that he is passing a watershed, a valleg or a good defensive position, as well as being able to take in the seneral fatures of the entire plot

To illustrate a use of the cavalry sketching case, suppose for example, a division of our army, say s,omo men, is approaching Fort Leavenworth from the east, and when two dars march distant word is brought to the division commander that aslighty superion force of the enemy is approaching from the west but is still three days march distant from the post. Our division commander knows nothing of the topography around Fort Leavenworth except what the county maps give and his orders are to hold the place at at hazards. He at once sends forward certain officers (this detail mat fail to any lieutenant) to recononiter, sketch and report upon the country lying to the westward of Fort leaven worth, with a view to defending the post. The command being still two days march to the east, the officers detailed for the recombissance ride through in a day, so that when the work commences our army is but a day mareb to the east. Arricing at the post the senior officer of the detail carefully studies such maps as he may have and obtains all other information available; he then assigns an approximately equal share of work to each so as to cover as much of the country as his judgment tells him is necessary.

To be of any avail the report must be made to the division commander on his arrical that erening. so that dispositious for detense tiay be made at once. The sketching case is the only practical means of solving the problem. The field work, in so far an bear ings, distances and outlines are concerned, being done mounted, while the finishing of the sketches is done in colored pencils after returning to the post. Defensive positions mast be located and sketehed, together with all roads within a radius of six or eight miles; the usual report. whether of a road or of a defensive position. being attached to the map.

The problem outlined above was solved by a class of student officers at the Infantry and Cavalry school. It involved the sketching of three positions, each about a mile in length, and four roads, varying in length from five to ten miles. These sketches, covering fifteen square miles of country, were completed within seven hours, and most of them were sufficiently accurate to hare enabled the supposed division commander to have moved intelligently on the rarious roads, to have placed outposts at the proper pointa, and to have secured the best defensire positions during the night.

Thus far the two longest road aketches completed in one day (nine houts) by a class of forty officers were of eighteen and nineteen miles respectively, the latter incolving a ride of twenty-four mile.. The best twelve of these latter had an average error in distance of brit 210 yards, and in direction of less than three degrees.
of 328 road sketches made fith the sketching case (all in fact for thich accurate data is at hand) there is found to be an averare erro in distance of setenty five gards per mile, thus showing the uniformity in the gait of the average horse. The bicyele ats adi.tance measurer, far surpasses the horse in accuracy, but it has other dran backs to which the horse is not liable; for instance, the metal affects the compass; stopping andinstant to sketch or make notes is impossible without dismounting; leaving the road to get a view from an aljaceent hill is out of the question, except on thot: muil and also a frozen, lumpy road are abominations; the point of view is possibly four feet lower than from the back of a hose ( not an unimportant eonsideration); and tinally. the rider must work his own passage. A nerrous, excitable horse is, however, almost useless for this work, so that there are disadrantages in both means of locomotion.

As to scale, the simplest is the walk, connting alternate steps. the most accurate has been found to be the trot, although a time acale (with stop watch) of walks or trots has been used by severat. with excellent results.
W. D. B .
ural excuse of a fair difference of opinion, will be still more puzzleli when be finds Desaix mentioned as one of the leaders of the Rusiap invasion.

The book is marred by cancless editing, such as the map of Waterloo reversed, incorrect spflling of proper names, as "Pirck" for""Pirche," "Fleura"" for "Fheurus," "Mouster" for ""Monstier." and the odd spelling of Lewis as the name of a King of Hrance.

Praise of Ziethen for his defense of the Sambre is pomewhat weakened by the criticism that he should have destroyed the bridges before retiring. Really that achierement seems to be a poor example of the action of a delaying force, compared with the performance of mad $\dot{y}$ othersi in a later day, as for instance that of Licutenant-Col one von Pestel ít Saarbrücken, or others during our own war:

It must be confessed that many good authorities justify the statemed that the French troops at Waterloo were excellent, while those of Wellington and Blucber were poor. The proofs of these statements are not entirely satisfactory. We know that the qaralry at leace was destroged in the Russian invasion; Lord Wolseley expresply states that it was poor in $\mathbf{1 8 1 4}$, and Napoleon said the same. and it is known that the greatest difficulty obtained tawari the last in France in supplying horses for the army. How then rouli the cavalry of Napoleon blossom out in a few monthis so ats to be called "magnificent?" In my humble opinion, the great sirtoriew of the last three years of his caredr wore made ineffective and barren of desult because of inefficient caralry. That was why Bautzen Dresden and Ligny were not ranked among his greatest victorie$\vdots$ and that was why he was finally overwhelmed.

Gustaves Adolphes. By Lieutemant-Colonel Theodore Ayrault Dodge, U. S. A. Houghton, Mifflin \& Co.. Bostor, 1 s:95.
Military students will be grateful to Colonel Dodge for this ex cellent work. It is the fourth volume of the "Great Captains" series, and is not merbly an excellent biography of the Grgat Swede. but is a comprehensive history of the Art of War from its revisal after the Middle Ages to the close of the War of the Spanish Succession.

Among the many great military leaders who have carved their names in history, the preeminent generals who displayed a master: of the science of war, are so fe中 that they can almost be counter upon the fingers of e single hand. According to Colonel Dodge they are Alexander, Hannibal, Cesar, Gustarus, Frederich, and Sapoleon. It may, perhaps, be vell claimed that Epaminondas, tie father of gereralship, is entitled to a place in the list. and that the names of Marlboroug and Prince Eugene should not be omitted: but there can be no doubt as to the rightful claim of those whom Colonel Dodge selectsto the title of Great Captains.

Of the great captains mentioned none, perhaps, placed the stamp of his genius so plainly on every branch and feature of military art
a- rintarus did. The infantry, which he found cumbersome and unskilltul, became under him mobile, flexible and an engine of mighty power. Instead of retaining the old "battlen." thinty or firty ranks deep. he reduced his infantry to three ranks, lightened the musket so that it could be fired without a rest, introduced the paper cartridge organized companies and regiments, and, in brief, gave the infantry an emormous advance in its two great essentials of mobility and tire action. The cavalry no Inger depended uph its feeble fire action with its primitive pistols, but was taught by him to charge home with the saber, and to overthow the enemy by the force of its shock. The artillery was lightened, its cumbersome inertia was chatsed to mobility, and the invention of nxed ammunition enabled it to tire eight shots where the intintry could fire but six. A corps of sappers and miners was organized and every man of the arms was tratmed in the construction of feld fortifations. The army was clad in uniform clothing, and wonderfully disciphined. C"nlike the hordes of licentions ruffian who componed the armies of his opponents, when susised on plunder, who conserted the theater of war into a hell. and who violated every commanmment of God and all the laws of mathe exept a tew military reguladions. the soldiers of dustaves were essentially ath army of good morals. Divine service was held regularly. Ioose women were forthatho accompany the army, and last, though by no means least, the pay of the army. thoush small. was certain and regular.

It is pheasing to read ot a champion coming to the relief of the unfortunate and be the force of his valor and ability overthrowing a great enemy in the moment of his trinmph. Whether it be the fabled saccor of Andromeda be Perseas, the arrival of the fleet of Gylippus in the harhor of Symase, or the timely appearance of the Monitor in Itampton Roads. the narative always fiven a thrill of satinfaction to the reader: and nothing in history is more dramatic than the coming of dustaves to the relief of Protestant Germany, lying bleedins and postrate at the feet of Tilly and Wallenstein. The "Snow King." the Imperialists declared, "will soon melt away; but Leipsic and Lützen mon showed that the melting was on the part of his fies. No genemal of the Imperialists was a mateh for the Great swede. Tilly, a brutal. Blüher-like man, who replied to the remonstrances against the licentions crimes of his men that his soldiers were not nuns, was a good, sturdy tiphter, but, as Colonel Dodge well says; "he sutfered from strategic myopia." Wallenstein, the mysterious antrologer, dark, unprincipled, popularly sup posed to be in league with the Devil. possessing great military merit, forceful in character, and widding boambess influence over his army of cut-throats and blackguards, was neither the equal of Gustarus as a strategist nor as a tuctician. Gustavas, in fact, was the first general of modern times to appreciate the principles of strategy, and his two great victories of Breitenteld (Leipsic) and Latzen gare evidence of his consummate tactical skill. As a statesman be was as great as he was in arms. No general more clearly understood the influence of political considerations on military
operations, and to the censure that was passed upon him in some quarters for his failure to march to the relief of Magdeburg when that unhappy city was besieged by Tilly, Colonel Dodge well replis. in the following words:
"Putting aside politics - in this case John George with his 40,000 men the military problem could be readily solved. Three or four stont marches by way of Dessan, the destruction there of Tilly's force, the burlding of : tridge-head to preserve his line, and the summary attack of the enemy lesieging, Magdeburg, were among the'possibilities. But if we aksume that all political complications, we can scarcely imagine his pushing firr into the all political complications, we can scarcely inagine his pushing har into the tangled network before him. All great soldiers have succeeded because the
made politics subserve their military scheme; and so did the Swedisis monarch. We may imagine the bold and rapid advance which some. historians have told us it was his duty to make, to redeem his pledgeito Magieburg; we may picture its success; but we shall have createn a paper campaign, and a paper hero; we shall not have depicted the Gustavus who saved the Reformation in Germany, and who was the father of modern war. Gustavus was not great because he was either cautious or bold; he was grat because he knew when to be cautious and when to bebold."

The great battle of Lätzen brought to Gustavus both triumph and death; and in such fear was he held by his enemies that, wotwithstanding the rout of the Imperialist arms, the loss of its cutire artillery. the possession of the tield by the swedes, and the retreat of Wallerstein into Bohemia, the result of the battle was suthiciently pleasing to the Emperor to cause him to orter a Te Depm to be sung in all his churches.

As to the character of Gustavas, nothing can be more clear and satisfactory than the yords of Colonel Dodge:
"To an uncommon breadth of intellect Gustavus joined the well.poised knowledye of the apt scholar and the iron will oi the true suldier. ©nce win-
vincel that he was right nothing coald bar the execution of his project. Iie was of a quick, sensitive - one might say touchy - hatit, conpleth, as is rare to a deep feeling for right, truth and religion. His quick temper was hut superficial; at heart he was kindly, charitable and patient. His piety was honest, outwardly and inwardly, and impelled him to fair dealiny and up. rightness. Religion was never a cloak. He read daily and at lenteth in his Bible, and prayed as opeqly and ungreserverlly as he spoke. He tas iond in Hugo Grotius. He once, however, said that had (irotius himieli be a a comHugo Grotius. carried out.
"Gustavus spoke eloquently, and wrote easily, and with a certain directness, which in itself is the best style for a clear thinker. His hymus are still sung among the country folk of sweden with the fervor in which the people shrine his memory.
"Condescending, kind and generous, Gustavus was often splendid in his rewards for bravery and merit. When, in his youth, the later Fiell-Marshal Ake Tott periormed some act of signal gallantry the king thanked pim betore own hands hung his sword upon him. But Gustavus was equally summary and.severe. Once, on complaint being made of marauding by Swedish soldiers, the Eing assembled all his ofticers and severely held them to task; then going into the camp and seeing a stolen cow in front of the tent of a petty officer, he seized the man by the hair mad handed him over to the executioner. 'Come here, my son,' said he; 'better that I punish thee than that God, for thy aln, risit vengeance on me and the whole army.'
"While singularly quick tempered, Gustavus was eager to undo a wrown he might commit. 'I bear my subjects' errors, with patience,' he said, 'but they two must put up with my quick speech. He condescended often at times too mueh, one in his presence felt the subtle influence of greatness; his meed wis the hearty respect of all who approached him.
"Except Alexander, no great captain showed the true love of hattle as it burned in the breast of Gustavus Allolphus. such was his own contempt oi death that his army could not but tight. When the king was ruady at any
moment to lay down his life for vicury, horw should not the rank and file sustain him? With surh a leader a defeat like Tilly at Breitenfeld, or Wal lenstein's at Lutzen, was not possible. Nor was his courage a mere physical quality; his moral and intellectual courage uqualed it. Hannital's mareh into Italy was but one grade bolder than (iustavus' into Germany; Ceesar's attack, at Zela wats no more reckless, if less matured, than Gintavies at the Lech."

If space permitted. the temptation to review Colonel Dodites description of the campaigns of Cromwell, Turenne. Conde. Martborough, and Eugene, would be irresistible Suffice it to say that his descriptions are accurate. his comments able, and his conclusions sound. Exception, mave perhaps, be justly taken to his estimate of the relative merits of Marlborourh and Eusene, and not all military students will agree with him in the slight enteem in which he hold. the great mareh of the former from the Low Countries to the Cpier Danube, which resulted in the junction of his forces with thase of Eugene and led to the decisive victory of Blenhem.
 oughly good and is worthy of a phace among the best militare and historical works. AKTHIR I. WAtiNER.

The Virinina Campatgn of lisiz Cnder (ieneral Pope.
This is the title of the yaluable collection of papers read hefore the Military Mistorical Society of Massachusetts, relating to secial phases of the Civil War indicated in the title. It comes as a sift to the Gavalry Association, from the society, whose good work in collecting and publishing such papers should be appreciated by allstudents of military history. It is such books as this that will guide the stulent and give many side lights not found in the cold but invaluable records of the Rebellion.

The work is edited by Theodore F. Dwisht, and contains the following: 1. General Halleck's Administration, 1stiz, by General Samuel M. Quincy, U. S. V.: 2. The Campaign of General Pope in Virginia (first part), by Colonel Charles P. Horton, C. S. V.; 3. The same (second part), by John C. Ropes, Esq.; 4. The same (tbird part), by John C. Ropes, Esq.: 5. The Twenty-Seventh Day ot A digust 1862 , by General (George H. Gordon, U.S. V.; 6. The Battle of Chantilly, and a Revi审t to the Field, by General Cbarles F. Wal. cott, C. S. V.; i. Strength of the Forces Ender Pope und Lee, by Colonel William Allen, C. S. A.; 8. The Case of Fitz-John Porter. by General Stephen M. Weld, C.S. V.; 9. The Conduct of General

McClellan at Alexandria in August, 1862, by Colonel Franklin Haven, Jr.; 10. The same subject, by General Stephen M. Weld, U..s.
1 V.; 11. Review of the Reports of Colonel Hanen and General Weld, by Colonel Theodore L\$man, U. S. V.; 12. The Conduct of Generals McClellan and Halleck in August, 1862; and the Case of FitzJohn Porter, by Coloned Thomas I. Livermore, C. S. V.; 13. The Hearing in the Case of Fitz-John Porter, by John C. Ropes. Fsa.: 14. The Battle of Cedar Mountain, August 9, 1862, by General George L. Andrews.

Matary Letters and Essays. "By Captain F. N. Maude. R. E. Hudson-Rimberty Publishing Co., Kansas City, Mo.
This is the first volume of the International Series, which is edited by Captain Wagner. Captain Mande has long been justly celebrated for his descriptions of British and Europeatin trops, epro. cially those relating to the practical work in the tield. The volume now issued contains the cream of his letters and essays, and through them a fair estimate may be mady of the spirit of different armier. the method of training in use in each, and the degree of efficiency they may be expected to develop dn active service.

Captain Mande correctly say非 - Armament and skill on the part of leaders being equal, victory, under all conditions of improvements conceivable in weapons, wifl ultimately remain with the beot disciplined troope and by discipline I understand that quality which is measured by the endurance of foss by troops under fire havins due regard, of course, to circumstances of time, ground, and cm ployment under which the losses were inflicted.

In one of the essays on German Cavalry Maneuvers Captain Maude sags: "Think what might we not accomplish with our rery decided superiority in material, yoth of horse and man, if only we could condescend to step ont of our shells of insular prejudice and adopt a system which is not by any means only German. but which may be said to obtain in the conduct of every civilized business thronghout the world except in our army, viz: the decentralization of authority, and the giving to eyery man according to bis rank full power to make the most of what is in him and in the men under him." To know that this opinion is very general in the regular army of the United States it is necessary ouly to engare any officer in conversation on the subject.

If the volumes to follow contain as much interesting and profitable reading as the first one, there pan be no doubt as to the success of the International series.

Cateceism of Outpóst Duty. Hegner. Hudson-Kimberly Publishing Co., Kansas City, Mo.
The saccess which attended the publication of Captain Wagner's book, "The Service of Security aud Information," bas induced him to prepare the present little volume, which is an abridgment of the
latree book. The scheme ot the Catechism, as it, name indicate. is to present to the student the whoke subject of ontpost duty-incluling alrance and rearguarls-int the form of questions allil all. swers. It will prove especially valuable to offece preparins tor examination for promotion, athd is abse exceedingly well adapted tier instruction of non-commishoned oftieers.
W. H. ©

## Caprain King's Books

The library of the Cavaley Avociation hat receited from time to time books from the pen of captain King. Ther hite not bern reviewed in detail, perhaps becamse the mumerous sediturs hate thought that King. being one of ".ours." neded no encomiums at the hands of brother officers. It is no practicable, at this time. to pass in review all that has been fone for the army by his anthor. but a tew words will not come amise in a journal devoted to the in. terents of the cavalry. whelh hav bome sheh a prominent part in many of his books.

Criticisms arr sure to follow whenever anyone attempts to write about things we are all familiar with, but from the day when the "Colonel's Daushter" appeared in our mitst, till now, no one has rendered such service to the army an Captain Kine.

He has had the A merican people tor his audience and betore lis great court of public opinion he has made his aremment. So writer betore him has ever appealed ow sucessfally, for he has lat hare the lives of the present military generation, with only such exar. geration ats appared necensary to complete his tories and catan. them to be read. We can readily forgive him tor introducing some character a trifte unfamiliar to us, for no one can pernse his bookwithout learning to love our regulars on the frontier. and t.. we that, above all their laughable oddities, rifalries and occasional displays of unkind traits there rises into prominence the fact that no other life in America dereloped or contaned more of true nemtiment, manly heroism and loyal triendshipe than that led by our army in the West daring the perion of its inolation and while congagen in incessant Indian warfare.

In bis stories of military life Captain King ranks secoml to none, and it is hard to read his books without feeling stirred by emotions which seem to rise ouly in the perusal of probable stories of possible human beings.

His stories are not all of the frontier. tor "Cadet Days" and "Between the Lines" present West Point and the Civil War period in an unexampled way. But after all these years of successful literary work, Charley King can well feel proud of the fact that he haty no cause to blush for his first effortw. "The Colonel's Daughter." "Marion's Faith," . Kitty's Conquest," and may we not add "The Trials of a Staff Officer

That he deserves and has received the gratitude and good wishes of his old comrades for giving them the means of whiling away many otherwise monotonous hours in the perusal of his clever
stories, goes without saying. But when we speak of the load of int difference, igoorance, spopicion and matice regarding the regulat which has been cleared away from Amorican homes through the instrumentality of his ressatile pen, we may well congratulate ourselves that so acomplished a swordsman turned his kowledge of us to so successtul and effective a literary acomot.
W. H. C.

In the Jocrasat of september suth the artiche on the siege of Chitral. by Lieutenant Cig.Stewart, R. A., shouldhave beencredited to the Journgl of the Royal Artillery Institution.

Jolhnal of the Royal Abtiliery Institition
September, 1895: 1 Diary of Lieutenant W. Swober. R. H. A.. in the Peninsula (continued). 2. Eastern and Visteri View onf Monntain Artillers, by Major simpson. :3. Notes on Gorman Maneusers, 1894, by Colonel Turner, R. A. 4. Siege of Gibraltar, by Brevet Lientenant-Coloyel Adye., R. A. B. On Masazine Regulationn (translation). The Field Gun of the Future by Captain Bethell. R. A. Oetober, 1805: 1. Diary of Liegtenant Swober (continuetl). ‥ Terrestrial Refraction and Mirage, by Lieutenant Brown. 3. The Artillery in Chitral, by Captain Herberi. f. Considerations on Cotast Defense, by Colonel O Callaghan 5 New Method of Settins the Tires of Wheels, by Major Oten. 6. The Ammanition Service of a Fort, by Major Johnson. November: 1. Diary of Lieutenant Swobey (continued). ㅇ. (asuality Returps of the German Artillery ; Battlen of Colomley, Mars-la-Tour and Gravelotte, by Major Stone. : Adjusting Clinometer Planes of Ordnance. by Captain Donohue. 4 . Emplogment of Artillety in Cuba, by Lieutenatut Colonel Dalton. 5. Extracts from Old Oyder Books R. A. Sheemus, b Captain Cumming.

## United Service.

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## Pennsylvania Magazine of History.

1. Benjamin Furly-Lachese. 2. Washington After the Revola. tion, by Buker. 3. In Lundy'm Liand, by Garrisou. 4. .OId Ronnd Church," be Page. 5 . Defenses of Philadelphia, by Ford. \$. Jour-








 Peary.

2. Inereasing the Ftheiency of Our New Ships. By Baxter. $\because$. Batte of the Yoln. hy Marlite :3. The Petrols Installation it Mantohuria During the War betweon china and lapan, by satremt. 4. Presure of Stumeles Powher (iane in the Bote of ciulis. by


The Mande Bleide


 Major Thaster.

Revte ju Cercle Mintatre
Revie Mhatiare sidone
Mititafer Wimbesbatt
The Rhek ani beweh
Ofa Demb Inimans.


[^0]:    - The papera were seat to the protesors of the Lindon Veterinary (Auge in 18ti.-A.M.I)

[^1]:    *These onfers were "a colonel of infanfry, a colonel of cavalry retired, a colonet of the Adjutant-General's Department, and a majgr of the Judge-Adrocate-cieneral's Department.' Though their names are not given, I belifer they were Generals staviry, Fiv, Rurnbiti, and Lifaer.

