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## JOURNAL

## UNITED STATES CAVALRY ASROCLATION

Vol. III.

M.JRCll. Isw.

No. $x$
(AENERAL HARNEY

in 18:36, when deneral Jarksos appointed hig Lieutenant-Colonel of the newly raised second reriment of Dr: foons, which had been called into service fir the hetter protertion of our fiontier. Pre vions to that time American Cavaley was withfut traditions, and although the country had been through two wars. it was almost without a history. Since then its record has bee brilliant and instructive: its examples of soldierly spirit and derotion have been offered on many ficlds: free from the influences of custom and prejudice, it has become a type of our own. and a nodel to which all future cavalry inust conform. Of peculiar interett. then, is the life of one whose gears of actire service saw the fird struggles of this new arm, and who was able in atter life to follow its progress up to our own day.

At the time of which we speak IIarney was thirty-six years of age, with eighteen years of service in the infantry, in which he had gained a wide and varied experience as an Indian fighter and a reputation for all soldierly qualities. He had served on the staff of General Jackson in Florida; in the Black Ilawk war, he had been a trusted lieutenant of General Atkinson and had largely influenced the decisive result, by personally reconnoitering and locating the Indian position in the campaigns of both years.

He was spare and trin of figure of uncommon height. ale't. an tive, swift of foot and strohg of limb. Lis renown in feate of strength and exercise reached fargand wide. He was red as a fox, about the head and face, with blue eyes and a ringing roice. He was of a kind to inspire the devotion of his soldiers and to fill the eye of the multitude as a popular hero; set he was not all made up of arood. ness, being quite humad in the warnth of his friendinips and a right hard hater always somewhat ferocious, ton, in the award of punishment. as we see when he ordered that thity deverters cap tured in the bostile ranksphould not be executed until they should see the stars and stripes waving over a Mexican stronghold. or when. with grim confidence, he carried rope along on an Indian seont for the purpose of hanging the offenders.

Little time was given for drill and instruction, and in a fiew months from the passage of the act of Congress creating the new regiment, its detachments, were fighting veteran seminole warriors in their own homes undery their chosen chiefs. In one of these engagements Colonel Harver commanded four troops of dragoons in the defense of Fort Melleq, Florida. At General atesics battle on the Locha-Hatchee, Haryey cursed the river with a few dragrons. und succeded in attacking the enemy in Hank and rear so an to canse their retreat.

One of the most dramitic incidents of the Florida war was the massacre of the trading post on the Caloosahatchie. A stipulation of one of the numerous treaties with the Seminoles was that a trating post should be established hat Charlotte Harbor on that stream. Harney was charged with the execution of this part of the programme. and posted a guarid of a sergeaut and twenty-six dragoons. He then went over to the Department IIeadquarters at Tampat Bay, with the object of getting a larger force as guard, but, being unsuccessful, returned. Meanwhile the Indians were suapicious of treachery, through certain indiscreet actions of our government. Imagining that Harney was responsible for the suspected perfily, they were phanning vengeance, while he was unconscious of the whole atfiair. Thescenes that followed are thus described by Colonel Reavis in his History of St. Louis:

Billy Bowlegs came down to the boat and told him that the chicts wanted to see him. Harney replied that he would wait and see them. It was afterwatd known that this was a ruse to shat off any possible chance of his dsaping the massacre they were planning. A sergeant and the traders at the post came on board, and Manery conterred with them as to the behavior of the Indians. Their tone of confidence in the good intontions and peaceful dieposition ot the In.
dians did not please him, and he eationed themg fannt any relaxation of virilance. Intencling to review the diop nition made of the troops. he lay down in his tent to rest, but longr fxposure in the hot sun hadmade him unusually tired, and be slept qually until awakened in the morning be firing and the relline of It dians. Rushing to the tront of his tent, he saw his men being shandtered and without arms, some of them struggling in the water anit being killed with their own gans. Ifis tirst act was to get on his boots: his next renolve was to die with hix men. But there were no men there. Those who were not killed were seattered fugitives. widhout arms and the instinct of self-preservation made itself felt. with no duty to come in eonflict with it. That the Imdians had risen was aparent when he first heard the noise but he was entirely ignorant of the canse With the desire to sare himself, he ret saw no fay, until, as an inspiration, the thought came. Rumbing down to fhe edre of the bay, distant about wo handred yards, he walked into the water and then walked backward, out asain to the shore thas con veying the impression that two men had walked in. As he disappared in the under brush of the shore he heard the batted yell of the Indians as they entered his tent. The hadstopped to plamber in the quarters of the men and delayed sutticiently for him to wet a sart. On reaching the point where he entered the water, they conefoded that he and a companion had drowned themselves rather that be killed by then. A negro. who was with them and who was friendly. but who was get more attached to Harsex than to them also dil what he cobld to misead them-and ow give him valuable time. With all the I mians. contidence in his power. and respeet for his sobliferly qualities, there was mingled too a superstitious fear that made then wary and increased his chances fore escape. One of his met, who hat noticed his stratasem while hidden in the palmetto thickgt on the shore soon joined him in his painful and perilous march. Dis objective point was a lumber pile, tifteen miles away from camb, much of the distance over mange roots that made the walk hist dessing, In the operations of the tour preceding days the lumber pile had borne some part. To reach this point that might alread be in the hamds of the Indians.) required, on his part, all the addees and endurance that were possessed by his savage foe. He had to make experimental trips to the water to learn his Jocation; and if ge met any Indians, his satety depended on seecing them first. On due of these reconnoitering trip. Bertrox, the man who was with him. reported that he had !liseovered the Indians.
"Britros," said his Colomel. "do you ferl that you can fight?"
"Yes. sir. I will die with the colonel." stoutg replied the man whose business it was of tight though ther had boh but lately passed through seches that chill the marrow of brave mon. They had neen their commades killed without any chance to mak a detense.

The colonel then said: . Let us cut some of hese pointed limbs to make them cantious in apporching us. Thy will make good weapons, too. when they come chase.

The next step was to cut some of the loxuriat grass and bind it
about their heads as a protection agrainst the blistering sum. and then to reconnoiter the enemy so an to get the first sight and keep themselver hidden. To raise his head abore the bank wats the labor of minutes. and the first thing that he saw was his canoe. In the cance, if not disturbed, he knew there should be a harpoon, which he used in his hunting expeditions, and the present oceasion wombl make it a very effective weapon. On reaching the canoe the hatrpon wasthere. and Colonel Mabners gratification expressed itwelt in a rell that made the sluggish forests of Florida resound tor miles. some atterward said they heard it tive miles distant. Ile was arain at christian warrior with a camoe bendath his fiont, and a trusty though somewhat peentiar weapon in his hand and he could yet cxareine the preragatives of eommander-the succor of tusitives ami attention to his dead. Instrueting bertros in pathlins the catmoe. the two padled on until the orertook a boathad of their own ment.: and then foblonel Mabser andomed his intention of going hack to see what hat bee come of his toree that very night. even it he hat to gen atme. The men. though badly demoralizod. voluntered tw we with him thush he would mot arder themite do so. The nisht was a brimht menon light one, the worst possible for his propese. His whole fine comsisted of seren men with insuffecent ams: vet he mate the recon. mossance with five men ald two sums. and collerted and counted the dead for the purpose of arfining liding of the livinge. He lowked in the tares of the men and thand them all but tive. (ionaled by the
 rades at once. he was ankions to make an attack unon the lmband
 and the fact that two barfels of whisky that they hat tiound in the sutlers stomes had probally placed most of then in a prition that would keep them out of a fight. There were hat tive men in the party an two of the seren had been left in the rear with the wher boat, and these tive were too much unnerved to be willing to take the hazard. It is possible that the measure of the conage of these men was in truth the measure of safery: Colonel Hansers solicitule tor his men when were get livifged ledim to shoutandinvite them to him. Two of them. he afterward learned. heard him but were fearfal that it was an Indian ruse to draw them from their hidine places. The sad party then left ; one party was sent back to Tampa Bay with the painful intelligence and the Colonel went to Camp Floridai. his headguarters.

During the Florida wat, Harsey commanded sureal expeditions into the Everglades, in on of which he killed, or captured and hung. mont of the band that had executed the massacre of the trating post.

He received the brevetof Colonel in 1840. "for gallant and meritorious conduct in several successive engagements with hostile Indians in Florida.

At the beginning of the Mexican war in 1046. Harsey was promo*These men had escaped to the boat when the firing tresan Iwoul them wer. womaded. "These men had escaped to the pat when the
and there were ouly two carbines in the party - Fil
wh tw the eoloneley of the second Dragoons. His tirst order from dieneral liveor sent him to the command of the forees protecting the 'Fexas trontier athl he was thas kept out of the brilliant engage. ments which towk place during the first year of dhe war.

With the opening tit ceneral sootre campaign at the tollowing year an oplortunity perured tor more athant fe service. hat between handey and this commander some ancidnt fead appears to have existed. for the former is metered to turn oper his command to
 quarters. . 1 , it was not -hpered that there fonld be any more
 to relimpanh tis regiment for an imarinary rompamd. Wortio for-
 enery and enthasiam. his lively ansiety for the sucess of Gemeral Scotre expedition and hisheopsolicitude twerve under that otticers orders. Wheth alon says with some constraind that Ilabsey has "avaled himselt of several eneasions to give utterane to honorable impulses and sentiments." Sothitg changes sipurs determination th have obme other dhef of avalry. Hander ackordingly eomen out
 wot deem me capahle of dixelargins my appophate dutier. he may amper. but he shall mot unesistingly degrade me Of eonse a court

 well klown and long comtimed prevonal lontility to Majon Ceneral Surt. ath that it mas. howerer ermeonsly be fuppeed that a rediprocal fecling has hedy grevated on his part: fand considering the pertece contidence that all may entertain in the fonor and imparti-




 is quite as amming as this, amb wheh make as sheriomat the large amount of time at the di-posal of a lieneral-in-(l) inet. in daily expere
 the fact that the deneral was pleared to remit efen the sentence of
 after all.

Som mame the affair at Merelin amb the capture of Viom Craz. at which the commander was '• baply th mame folonel Hansey as one to whom particular thatak-were due

Thenceforth in the advance, Hanser commanded the eavalry brigade. It cannot but strike us that this force was alsurdly inadequate. Even the handful of mounted troops was frittered away and encorts, quards-for prisonets, escorts for headquaters and all ot those numerousiletachments to which cavalry commands always fall an easy prey. Many of the horsesp had been ingured and drowned in the seat voyares so that now the qualry fince was partly diomunted fiom ather cansesthan those incident to the campaign. The Mexiran shows much aptness in guerilla warfare and in such a field the eavalry found itself, hampered by detachments, weak in numbers and more than half dismonated. In fiew of the firtumate result of the Mexican war, criticism might now seem unjust, were it mot that prevedentw and military maxims were phere latid down for future use. The Mexican war was the school in which the early army commanders of latil learned their art. ath in the use and employment ot the cavalry we are fored to see many coincidences.

As a result we see Haniner able to colled only a small tirce of four companies from his three regiments. to charge the Belen diate, City of Mexico. Jhy we not also conclude that the chief of cavalry, on account of this wite separation of his troops. tound more chance for distanction with an infantry command than with hit owin? At the battle of Cerro Cordo, at least, he led an intantry hrigade in the storming of the heights of Fl Telegrafo.

For this action he recelived the brevet of Brigadier cieneral for gallantry, and many adufiring notices in the records of that dayone of these is thus quoted in . Everglade to Cañon:

Think of his towering form carrying his brigade to the storming of that torrible height! What a picture for an artist-Marsey, with arm outstretched and dword drawn, pointing to the height, with his gallant brigade, regafdless of all obstacles, rushing into the enemy's breast-works! A 1 accounts represent him as conspicuous, and that the clear. shrill topes of his voice, calmatmost to trigidity, could be distinetly heard all the way up the mountain-side
$\qquad$ * *
This was truly a galla dit deed, worthy the cheralier Bayard of our army, as the intrepid Harnes is well styled. General scott. hetween whom and Colonel Harney there had existed some coolness, rode up to the Colonel atter this achievement, and remarke. to him: "Colonel Harney. I cannot now adequately express my atmiration of your achievement, but ath the proper time I wall take great phensure in thanking you in proper terms." Hanser, with the modenty of true valor, claimed the praise as due to his officers and men.

After the Mexican war the next important nervice was in 1855 ,

the sioux expertition of that year. The Brule ham ot sionx Indiana had beon giving tronble tor gars and now, their hamerons depredations. Ggether with the recent masacre of Liqutemant Jons R. Grattas and his command near Fort Laramie. determined the government to teach them a lesson. Leaving Fort fuavenworth with sis humdred men. Hanser marehed to the North Platte river and struck the Imatans on Blacwater Creek. The batte that ensued has sillee been called Ash Hollow: it resulted in the capture of the Indiall camp with many of their women and chidren. and the killiner of seventyeisht warrors. This punishment was sufficient to quiet this particular hand of Imdians tor a long tibu. although hard service tor many months followed over the bead lands now eowered with the tarms and villages of K ansam and Nebmeta.

In 1 sise Colonel Harsey was made a full Brip: dier Gencral and ordered to Orecron. where his fame had already prefeded him, among the turbulent Indians of that region. Then tollopred a serious dis pute with the British anthorities as to the own rahip of the San Juan Island. Out of the history of our northwnern boumlary, where our greatest statesman was overmatehed in diphomace and where our country receded from its brave warcry of - Fifty-four forty or fight," we may derive some comfort from an act pr the military authorities. Harney decided to settle the dispute bytaking possession of the island with an armed torce of one hundred men. under the famons George Pwett-then a captain, with onders to mantain possession be force, and they acordingly did "stand off" a British command. The peaceful policy of those days, immediately preceding the eivil war. cansed this action to be orerruled, and $a$ joint occupancy of the islame by British and American forees was agreed to. At a later date, the German Emperor, in arbitrating this question, awarded the island to the Cnited States and thus vindicated the judgment ot the military commander.

Such a positive nature must inevitably collide with others, whero they meet in such stirring times, and in Harseys fareer the storms were many and frequent. With the merits of one of these the whole army was at one time excited. On this occasion his rejection of a carefully worded invitation to meet another officer outside the city, and the court martial of that high officer for this brgach of discipline, filled the army with the merits of a quarrel that had lasted for years. A part of the correspondence is preserved to this day in our law books, but the passions of the hour have died with the hearts that nourished them. Suffice it for the purposes of thes briet notice to
say, that fie can find nothiug in Harney's character to indicate lack of combativeness or anwillingness to meet an enemy.

The great days, immediately preceding the war of the states. were now at hand. Recalled from Oregon. Harxay was placed in command of the Department of the West with Headquarters at Si. Louis. In April, in 1861 . while on his way to Washington to report to the President, he was amested by Confederates at Harpers Ferry. in Virginia, and thken to Richmond. He was treaterl with e.ensideration and respoctimamatesisting all appealy to his southern birth and sympathies, he was siph released.

At this time he seems pot to have realized the fravity of events that were fast progressing, With an earnest desire to avert blowlwhed, and with a regard for state sovernment. which eronts hate shown was most unwise, be recognized (ieneral stiring lorice as commander of the State fnilitat and agreed with him to make mo move solong as peace shofuld be maintained. . This brought ufon him the distrust and enmity of the Federal fiction; he was relieved from command and in 1 dis3 was retired from athive service. In 1865 he was mado a Brecot Major General, fir long and faithtul ser vice, and in $186 \bar{t}_{-s}$ he sqrued on the commiswinn to treat with the Sioux Indians.

His later years were phssed ins saint Louis and in Missiswippiand Florida. He died at Orllendo. Florida, in May last, at the age of eighty-nine years.
 of which he was an honotary member. He was a typical drasoon of the old sehool, and whaterer may be said of his abilities or of his judgment, he was undoultedly able to perform many valatable services in a very active iell of duty. llis name will be a tradition among the Indians of ouf country for many years. In our service he passes from our midst ats a bluff, hard wearing, rough riding trooper, a very picture in form and bearing. who cut the pattern and filled the mould for the caralryman of his day.

## WITH THE RESERVE BRIGADE

$\left.{ }^{( }\right)$FTIFE © of July. satit, the vavalry corps of the Army of the Potomac was placed in campat Lighthense foint on the south side of the dames river. some three or tour miles helow (ity Point. The incessant marehing and tighting duriner the nome of May and June under its new commander. Gemeral suembat. notwithatanding the realts were in the highest degred brillant and satisfactore had told neverely on buth men and borses and a shot period tor rest and revpreration was absolutely essential to its finfure etticiency.

The Resorve, or ${ }^{\text {. Regular }}$ Brigate as it was was at this time eompered of the First. Secomd regimento ot regular cavalry. Battery D. Second tillery the Sixth Pemnselvania Caralry, and the Dragoons. The brigate was commanded be Brigat hey Merbity and was atached to the First lava manded be Brigadier General A. T. A. Tonbrert. other brigates in the division the First comman Gemeral corere and the seond be colonel bevid Gavalry.

The Rewerve Brigate. (omponed as it was. troops persessed a certain distinetion which it hat tained throush a long period of brilliant service manders sine the first organization of tare cavale ginning of 1 stio.

It this time, the resulat reximent. were much
 govermment in rompetins smeantilly with the ,
 many alvantages wer that of the resular atmy forces of the Noeth were organized to wately we support the wohntere who were tighting the nation town and village. every (hateh and Sumbay selume. Reliet Society, and through the ageney of the si tian comminsions they distrihuted to the seldiers a
ometimes called.
Fith and sixth nited states Ar . Fint New York ier Generall Wes$\because$ Division, comThere were two led by Brigadier Sixth New York ricely of regular homorably mainunder able com'orfs in the be. -
hepleted in 110 m . perienced by the iffierent states in fild tor the soltier All of the sor-ial (rnconviare and shatles. livery had its .. Soldier's nitary and christhe front delica-
cies for the sick and wourded, articles of personal comtort not provided by the government and above all. Words of encouragement and cheor which-served to remind the soldier that he was not fortrot. ten, and that his sacrificet were not unappreciated. In the distribution of these good things the soldier of the reirular army received but a seant portiont; he belonged to no state or town. and although his chaim to asharein the Jations hounty might have heen recognized, there was no one to whom he coulel properly apply when the oreasion occurred in which relief was needed.

The strength of the recular regiments of the brisade did mot at this time, average more than 2 öl men present for duty. There wore at all times a large number of ment absent, at the dismonnted camps awaiting remounts sick in hospital. or in southern prisous. The number of officers wis proportionately small, as in addition to the ombinary casmalties of service. many were called away to hold commissions in the voluntere service others were in demathe tor staff duty, for which their military education titede them, amb others were necessarily employed in mustering and disbursior duty. or insperting ami purchasing horses

The tactical unit of organization was that of the suadron, which might contain anywhere foom sixty to one hundred men, a sufficient number of companies or thops being used to bring it up to the re. quisite strength. The scarcity of officers made it frequently neces. eary to assign one officer to the command of sevoral troophs, and as separate accounts and returns were required tor each olle, when the sinall opportunity afforded for clerical work is considered. it is not surprising that the official records for this period are somewhat in. complete.

During its period of rept at Lighthouse Point, the cavalry corps recerved a considerable accession to its ntrength by the joining of remounted men, and both mefind horses were rested and strengthened, so that when on the $26 t h$ of $J u l y$ an order tor its movement came, it was in excellent condition for service.

On the morning of the eth, hefore daylight, the First and second Cavalry Divisions, in connfetion with the Second Corps. crossed to the north side of the Jamen river, at Dep Bottom, for the purpose of making such a demonstrat on in the direction of Richmond as might cause the withdrawal of a portion of the enemy's forces from his lines in front of Petersburg, preparatory to the springing of the great Burnaide mine.

After crossing the riven. We moved out on the Newmarket road, where our advanco sonn emonomered the enemy scavalry skirmishers,
ath without difficulty. drove them hack upon their fotantry supporte The brigate was mow dismounted, and atter aur likes were all established, the enemy adranced with the evident intention of driving us from our position. The brigade was lying down hehind the erest of a ridge and as the ememy apmedred not more than twenty yarals in our froms. - arh at destuctive fire was prored in from ond breechGouling rathimes, that his limes broke in eonfusionf: when our men, rumbing forward with a cheer. combleted the rout capturing some two hundred and fifty prisomers and two stamds ot kolors. We held this fosition until the 2ath. when we withdrew to the vicinity ot the fontomn hridge by which we had erossed the iver, at phe same eveninge the bribige being eovered with hay to deaden flae sombd of our horses footsteps we reconsed tuthe sobith side. 'The meaniner of this seerece of mosement hecame apparent the next morning when we were marehed hack alyain. dixmounted: the intention being to eonvey to the ememy. from whose sighal stations the movement was patinly visible the impression that at hege force of infantry watreroning to the north side of the river. The division returned during the day in parties too samall to attract attention at a distance. and on the night of the 2thth, marehed in the direction of Petersburg to take josition on the left ot our lines. with a view of operating agrainst the enemy from that thank, in the event of his defeat in the attark which was to follow the firing ot the mine

Memory brings back to us the night march of a tired and sleepy cavalry columb, as onc realls the visions and fancies of a fevered and delirious dream. The monotomous movement of the long columb, invites the tired faculties to rest and forgetfulness, while the ever present necesity of preserving the seat in the sadde, and controlling, to some extent, the movements of the horse, renders sleep impossible. This results in a state of semi-conscionsness in which the tired rider is in some degree both sleeping and waking. He is conscious of the movement of the column, of the presence of his companions, and may even respond with seeming intelligence to the conversation addressed to him; but his brain is at the same time full of dreamy illusions and imaginings. The fences, trees, and other objects by the wayside, assume, perhaps, the semblance of long lines of buildings in the streets of a city. peopled ly indistinct and ghostly forms, and he taker his part in the varied se enes and ineidents of another and widely different life: until he is brought back to the realities of the present by a sudden hate amidst the pots and kettles of the pack-train which follows the regiment in his front. A few delicions momente of slepp, which is ever present and realy th take full possession and be in aroused
again to coneciousness to follow the indistinct and wwittly dinappear. ing forms in his front. Or, perhaps, being dimly aware of a louger delay than is warranted by an ordinary obstacle, be arouses himself sufficiently to ride forwarif to inventigate and finds that oome shepy darky with his pack-mule bocks the way. whiln the cohmm is out of sight and hearing.

Such was the charactet of our mareh on the nieght of buly enth: until. a few moments beffre sumise the muttled thumber it the explosion of the mine. follor ed by the roar of artillery arousen exery hodys and gave rise to ankious expectations as to the result. some two or three hours later. we found ourselees divefly in rear of the sene of the explosion, vhen it was apparent. from therrope of straggiers which dotted the plain. and the cessation of active movements, that some one had again blundered and that the attack tollow. ing the explowion of the great mine. from which surh grand results hat been predicted, was a tailure.

On the night of the soth. We camperl at Jomes Hole, on the Wel. don railroad. The next morning the division received opters to
 tion on the transporte which weve to carry men. horses and trains. to the vicinity of Washington. for service arainst the Comfederate forces in the Shenandoah Valley, under General Farme. Change is alwaywelcome to the soldier and all hooked forwatel with pleasure to a sathpaign in the beautiful valley of Virginat, and with contidence to at meetins with any portion of the Confederate armies to be timun it that region.

A portion of the brighde disembarked at (iaesbore Point, on the
 arrived on the following niay. On the evening of the $\overline{\mathrm{B}}$ th. the whole division having assembled, it marched throurh Washingem in mot. for Harpers Ferry. It was a sultry evening tollowing a hot Ausust day, and as we reakelled the ontskirts of the city the punps that were bere and therellocated in front of the dwelline homes were freely patronized by struxglers from the collumi. It oble of these. in front of a residence in fiencgetown. I rewernizel dieneral Hatseck. who with groblet ath pitcher. was elogated in supplyills the wants of the thirsty troopers.

On the sth, we pasedt through Hapmers Fery moved out onthe road to Hallowname wont into camp. The cavalry serving in the Middle Military Division, fas feneral shermans new command was desiguated) was organized into a corps under the command of cieneral Torsent. It consinded of the First and Third divisions of the
cavaly of the Army of the Potomate athd Averemis-aterward Prowes's-division of West Virginia cavalry. A small brigade of two regiments under the command of Colonel Charies R. Lowele, second Masoblhasetts Cavalry. which had been operating in the vieinity of Wathingtom, comtinued for a time to act independently, but its regimenta were soon atterward united to the brigeydes of the First Division. Cencral Mereiter succeeded to the commabd of the First
 that of the heserve Brigate.

On the ! 1 h there wis -ame sharp skirmishing on the adsance picket line which presiged at eherer acequantance with the velerathe
 diection of Wincherter the enemers cavalry heing driven hatk t, the protertion of the intather On this hay by an untortamate mis.





 hot to strike the Millwomp pike and the secomb mot heing apprised of the chathere of dirertion athe suppoing it was tollowine the col
 trand and emenutered he ememy with the unfortumate rewalt above mentioned.

The lah was a busy day. We first becatme cugaged with the enemys avalry, and atter driving them several miles toward New. town. Were brought to a standstill by heavy force of infantry. The entire division was sent in dismounted. The hrigade had in its tront a wide ploughed field with a thick grove of timber beyond. in which the enemy was strongly posted. We went awosw with a cheer, in doable time, drove the enemy for the moment from the timber, but soon. heing exposed to a heary flank fire from the left, were ohliged to return across the ploughed ground, if more silently, at least an expeditiously, as when we adranced. Here we fomd that inanimate friend of the soldier. a good substantial rail fence, and soon had rail barricades in our front which we held until dark in spite of every effort of the enemy to dislodge us. We had learned prom prisoners captured in the timber that we were fighting Gormosis division of infintry, and felt entirely datisfied with our day work. It was in this affair that it is related of an officer, who being seen in the thick wit of the fight behind a tree with both arms extended, when asked
what he was doing. repled. that he was reaching for a leave of ab aence.

On the 12th. we marehed out on the strashers pike as far as Cedar Creek, meeting with but slight opposition. Eanis's army having fallen back up the valley. The mext day a reconnoissance was made to near strasburg, and on the $1+$ th. the jortion of the brigade not on picket duty, remained in camp. This rest was welcome. amd much needed, for the hard marehing of the past ten hays, in the bot Ausust weather, had tried severdy. both men amd horses.

On the 1 tith, while the Reserve Brigate cowered the line of ('endar Creek. General Merrity, with the brigades of ('viter and Drion. had a severe engagement near Cedarville. with Kfrshaws divinion. which had just arrived in the valley trom Lees army at Petersburg. This division was monted, and driven armose the shenandoah, with the loss of three hundred prisoners and several stands of cohors.

Our cavalry was at this time generally armed with the simarps breed-loading carbine. It was nsed with a paper cartridge and percassion cap, and although incomparably interior to the arm now in use. was yet so much superiorto the mazale-londing musket as to give as an immense advantare. In these varione engagements in the valley. in which the cavalry fought dismounted. it was difticult tior the enemy to beliese that they werg not confronted with the hert veteram intan. try of our armies.

Abont this time Mosbry guerillas became quite annoying in their attentions. They captured and burned, near Berryille a barge number of wagons laden with supplies, among which were the regimental wagons of the Reverve Brigade. Theve wagons contained the regimental and company records. and the largest portion of the personal outfit of the officers, and were a severe loss. To some otticers whose accounts were in a hopelessly mudded condition. it was not without compensating advantages, in that it made it utterly impossible to render the strict acconnts ordinarily insisted upon. On the 15th of August, wo young cavalry offeers. Lidutenants Warker, of the First, and Dwren, of the Fitth, while en routh to ILarpers Ferry on duty. were waylaid. the former being killed and the latter wounded and captured.

The transportation providel the cavairy for feld work was reduced to the lowest possible limit. The men were areustomel to rely solely upon their horses to carry all of their belongings, including their rations. When the rations gave out an they frequently did, they went hungry or lived off the country. The ofticers were allowed pack-animals at the rate of one to each three otticerw. to carry their
bedding and mese outit. These pack-trains were acoompanied by a string of black coutrabunds. mounted on ancthing which had four legs and could set oveg the ground. Eath one chatmed tw helone to some particular othicer and in camp, it not very useftal in wher respects, they afforded much amusement, and were the vietimant many practical jokes. They were generally taithfal but were in mortal terror of fillitus into the hathls of the . Rebs." and Were curetal te kep well to the rear when any fightine was in progress. A- they usually carried the mess outit with them. this practice hat sometimes its inconveniences. Otten, an thexperted move would sepatate us from the pack-trains, when they would serk rofuge in the tear of the army with the watons, onty making their appearance after several days. At such times we faged as fortume and the resoustes of the
conntry permitted.

Parsaant to the determination of Gencral Graser that the Shenandoah Valley should no longer be used by the Comfederate armies as a granary amb suply depot. orders were isued on the tath of August for the destruction of all wheat and hay and the seizure of all livestork, acessible in the valley. The First bivision was employed in this diatreeable and demoralizing duty antil the zoth. On the
 adsance. when war trons fell back wa defensible position near Charlestown. The First Division was engaged with the enemy's infantry the whole of the athermon of this day. amb mantamen eontact with it until the mext morning. On the oed the division marehed to shepardstown and remained there until the 25 th. when. ahong with the Thim Division it marched in the direction of Kear. negsille. Near this plate we unexpetedly encountered a strong force of the ememy infantry and be a vigorons attack they were thrown into eontasion and lost a large number of prisoners. The caralry, however, soon fiomd that it had taken too big a contract ath tell back to shepardstown.-Coster's brigale being obliged to woss the Potomac near that place to awoid beinge cut oft.

On the esth the division marched toward Leetown, the Reserve Brigade hading. with the First Cavalry in advance. As we approached Leetown a portion of the brigade was sent forward on a reconnoissather ath a strong fore of the enomy cavalry was devel. oped beyond Lectown in the direction of smithtieht ifter pasing Leetown the head of the column comentered the equmy akirmish. cre in considerable tiore and all ot the reriment in advance, except one siquatron, was deployed. Soon. the shatp rattle of carbine fire indicated hot work, and in another moment our skirmishers came
back on the run, while the familiar "rebel yell" told us that the en emy was charging. Wiqhout loss of time the commanding officer of the lealing regiment ondered his reserve squadron to draw saber and charge down the pike to receive the attack. This charge has been thus ilescribed: $\cdot$. Ns we entered the pike a dense choud of dust could be seen moving rapidly toward us. Soou as the two charging bodies. moving at full speed, approadhed eath other, the arleanitug red eross of their battle fayr combld be distinguished. But in the same moment they slackened aped and opened tire with the pintol: when almost instantly we stratk them with the momentum of wir eharese andiminished. We went throush them with at eran-at thailate of pistol shots-a a few quick sabor strokes-men and how- rollimer in the dast of the pike-and the whole have array. With the detiant rell hying on their lipa, were in wihd erntu-ion abd theht." The chatere of this adrance sifudron was tollowed almost immediately hy that of the Second Casaley the nest reximent in the column and was supported by the whole brigate. The confederate trompers
 of their intantry, and it was a boner time betore the asath attempted a mounten ehatge. In this attair we eaptured some hiote or forty prisoners. many of them with sore heak from the trokes of our dyll sabers. The First Cavalry Inst a leave otticer. the gallant lealer of the alvance squadron, Lientenatit. S. Horem. He was ohot though the body and died within an hour. His surial qualities atol qenial disposition made him a unjersal farorite athd I doult it the long "roll ot honor" of the Renurse Brigade bears the name of one who was more sincerely regretted by his comrales, The remaining casualties were confined to the leading squadrom, and consisted of some. ten or twelve wounded men and perhaps as many horses. This charge well illustrates the relative effectiveness of the pistol and saber as charging weapons. Had both parties used the saber. vic. tory must have rested with the force which was hest mounted. had the boldest riders, and the most skillful swordsmen. Is it was the hesitancy of the Confederate cavalry. in the effort to use the pistol.

- was fatal to the success of the charge. A peculiar teature in cavalry operations during the war - the charge in column of four-witsexemplified in this affair.: The frequency with which this tormation was resorted to was due to the fact that the broken character of the country and the number of walls and fences left the roals and pikes almost the only unobstructed ground over which a charge was possible. The limit impused by the fences on either side of the road, enabled a small. determined force. (o) act at a ortat allatatage. In



The division went into amp neat smithtielid strongly picketing
 in stronse fore on the other sike of the - 1 ream. the tronge were in

 day adramed the band of the sereral berade weme asembled on a
 beyond. The ereneral officers with their several statfo were also collected here and a number of offieers trom the different reximents whieb had dismounted in the vicinity hal also strolled up to enjor the music and to grather any hit of news from their better informed triends of the staff. A brigade had heen ordered acrose the ereek to develop any fore of the enemy which misht rumain in our front, and its

 from a skit ot timber alout a mile diviam. Hu fui-kly disappeared. when Batag: Bans! (rash: came the repurts from the rans of a
 su athe about the litthe hill where the ray theoters had asembled The rapidity with which the serne chatued was marvelons. All had husinese which ralled them chewhere amb the hill was deserted in a twinklinge. In a fow moments the rray cohamo of the enomy's
 from the timber. Wur forces soon hecame entated The brigade. which had eresed the creck was drive hate The whele divixion was dismonnted and sent promptly to dispute the erosiner of the ereek. but its offints were unavailing: we were steadily driveli back by the suberior fince of the enemy Gur retreat piaced the little town of smithtied in the thiekest of the tight. 1 arisson explonded in the streets of the thwn. and the territied inhabitants sought shetter in the cellars of their houses. As a rememal oftieer paused a moment in the little village, a frightened woman rushed out imploring with outstrethed arms athl disheveled hair: "For Gob's eake. General. cant you move the battle a litte further off"" The General assured her he was doing his best to aceomphish that object The cavalry was forced back a mile or so beyond the town where a line of harricades having been established, the alvance of the enemy was checked, and a division of the Sixth Corps having been sent to our assistance. he was again driven across the Opequan.

In the tirst part of September the division made a demonstration in the direction of White Posts. A bout the 5th of September it took
up a position along the Opequan between the Berryville and Smith. field pikes, which position it retained until the hattle of Winchester.

During this time it hot to be presumed that we were ille. Picket duty was severe and onerous and frequent recommissances not only afforded us occupation but cansed our list of casualtios to steadily increase. Generpl! Sheridas in his report says: • Dlthough the main force remained without change of position trom september 3d to 19th, still the caralry was employed every day in harasing the enemy. Its opponent being principally infantry in these skirm ishes, the cavalry was becoming educated to attack infintry lines. I think it was the general impression in the cavalry that its education in this respect had been previously completed. The experience and self-confidence which it had acquired during the expeditions and canpaigns of the wo pretions yeary now enabled it to oppose with coufidence Early's veteran infantry and by thus placing itself as an impenetrable sereen in the front of our army secured to its Geperal-in-Chief that freedom of mosement which was a potent tactor in the anceess which followed. Our intintry were abon emabled to rest quietly in their camps so that when the hour tor action came they were prepared for quick and vigorous movement.

About this time the First New Yonk Dragoons wis transterred from the brigade, and itsplace was filled by the second Masoathagetts Cavalry, Colonel Chares: R. Loweme of this regiment sureed. ing to the command of the brigade. Colonel Lownal. athomerla a regular officer hal not previously served with the brigate and wat comparatively unknown to both officers and men; hut from the first. by his soldierly qualities, he commanded the confidence of all, and the luster of such glory as had been won for the Reserve Brigate by its former brave commanders acquired new brightness under his able and fearless leadership.

On the inorning of the 19 th of September. the Reverve Brisade was in the saddle long before daylight en route for sieceres Ford on the Opequan. As we approached the ford the enemy's cavalry pickets, after firing a few shots, retired hastily across the creek. As daylight rendered object visible, a force of the enemy could be seen on the opposite bank, strongly posted in the timber beyomd the steep banks of the creek. The brigade having been ordered to carry the ford, advanced and charged across without hesitation. the seoond Cavalry in the advance, and in spite of the very heary and eftective fire opened upon it, maintained its position. It was soon dismomotes and a connection having been made with Cesters brigale on the left which had crossed at another ford, by a vigorous attack the enemy was dislodged from the timber, and soon after sumrise, a general advance
having beell ordered. tell tack in the direction of Winchester. The fore in our tront was Wantos's Division of infantry : ald it appears from the report of General Mernetr, that in thin early part of the day it was his object to keep this division so cheraged ats to prevent it from marehing to join the rest of Eabis's forees near Winchenter.

As the forenom adranced the long coutinuons roll of musketry and the steady roar of artillery, mate it evident that a general action was in progress, and from the knowledge we had gained as to the character of ceneral sumbinas, we felt confichent that the cavalry would he fermitted to take its share of the work and ans instinction or grory incidental thereto. During the forenoon we rain up against the division in our front. stongly posted tehind a barricale of rails, and atter the First Brigade had unsuceesstully endeavored to dislodge the enems ly a chatge monnted, we settled down to dismounted skimishing for an hour or two. the division commander evidently satistied to detain as loner as possible this offective force from the battle which waw now raging to its right and rear. But it finally beroming apparent that the wore sliphing away frous us, u Eremeal adrance was ordered. At about three b. m.. the division was united on the Winchester and Martinshure pike. Devisis brichle in adrance. The enemys cavalry now making its appearame in an endeavor to cover the left flank of Eablys army they were briltanty charged by devis: hrigate and tor the time dispeded of The divisinn was now formed in line the Reserve brigade on the left connecting with the infantry lime of battle, amd in this order adsanced to the open tields near Wincheoter. The enemys cavalry haring asain rallied. Was charged by the First and Scoond Brigades and effectually disponed of for the day.

We had now apprathed within range of the enemy artillery and the brigade was massed in close column of squadrons and awaited developments. The most trying test of soldierly qualities is the wating under fire the opportunity for action. In the absence of occupation the full horror of every casuathy is impressed upon the mind, until the permission ta ride in the headlong charge. "into the jaws of deathr" comes ats a relief.

On this ocasion as our movement was delayed the rebel gunners inceased the ateraracy of their tire until it seemed imposible for us to retain our position without setting into divorder. The Second Brigade was given its opportmaty first. A movement of the enemy's infantry invited the attack, and the brigade lea by the fallant Devis, went in with a cheor in magnificunt style. They were upon them io a moment -a contined mass of the blac athl the gray, with
the gleaming sabers over all. and he grallant hrisade comeremb with its trophies-a crowd of prisoners and three stands of aotore

And now at last the lieserve Britate is to mose. Iraw saber! Trot! Gallop! Charge! 南ere commands in quick sureession. The ground betore us was opdo and unobetracted and all that combl he desired tor a cavalry charge. A hattery ot two sum in an carth. work on the enemy's lett was pasach atht the hitate berame the target upon which the eonverering fire of at lobe line of intantry was directed. But, Forwardl Forward! was still the ery. A short dis. tance from the comems line the diteh of an wht withwork wased some confusion. but ahthont instantly the dhaten - fuadrome had reached and crossed the slghtentrenchment hehind whinh the howtile lines were posted. They were overwhelmed. thrown inte dismener. routed. Saber strokes fill fast and thick, but our wotk was done The eharge had spent its fioree and the solid. unbroken lines of the enemys reserves compelled a withlrawal of the briarite to reform its shaterod ratks. The eharge of the heserve Brisule was fol lowed by that of the fiont, and a gencral advance of our line com pleted the ront of Eabirys army.

The shates of evening vere falling as the cavaly marehebl thourf Winchester, and while the satisfation of a days work well done per vaded all hearts, the comphe night seemed to binge with it something of the glom which must have filled the hreasts of the defeated and their dishoyal friends in the ohd historic town.

The batle of Wincheoter, athough not one of the grath battle of the war. was in some repects a remarkable ome. On the 1-th of September. General inendan receised inturmation that E.abis had sent two of his divisions fo Martinshurer and it was this information which determined the movement. the General hoping to be able to defeat the Rebel army in detail. But it turned out that theoe toro detached divisions hal pejoined the matin torce athl eatly on the morning of the 19 th, Geqeral Sheridas was apprised that he would have to engrage the whole of Farlys army. This necesitated a change of plan at the last moment, and to a cuncral lese raty of resource might have proyed fatal to success. This rictery was in a - great measure due to the superiority of our cavalry and to its proper use on the field of battle in tactical combination with the other two arms of the service. Fxtmples of this character are unfortunately, rare in the history ot the war, and a careful study of this battle by the military student will be found profitable.

MOSEN HARRIS.
Captain, First Curviry.

## MARCHING CAVALRY

UTNEFR this healling, something will be said on the subject of the conduct of the smaller bodies of mountedtroop, in such service as they are now ealled upon to perform. It is not the intention to discuse the manner of moving large columne of cavalry in a civilized war, or upon occanions of ceremong. It may be remarked however, from past experience, that in time of war, cavalry hattalions, regiments, brigades; corps and divisions are hurled through the country with. out much exactness as to tactical formations. qate or camps : and that

- our tactics are sood enoush tor occanions of ceremony, it properly studied and understoond

The marching of cavalry is os much affected by the immediately surrounding circumstances that no set rules can properly govern the length of marches and the manner of making them.

The conduct of a regiment changiner station. with its supplien furnished. either at designated points or berempanying trains, is so unlike the mareh of a column seouting after hostile Indians that a ruke. correct in one case, would not apply in the other. In the former case. a steady walk, with the usual hatts and increased distances. would. perhaps. be the best manner of marehing. Such a days mareh would be twenty or twenty-fire miles. and would be mo test of the embrance of men or horses as both should improve under such conditions.

The proper manner of marehing cavaly. while ensouting' or on a trail in pursuit of hustile Indians, is ditticult to describe If a commanding officer marehes his columm a lomedistancerapidy, over a mountainous country, a perentage of his horses will undoubtedy become exhausted. If he does not march rapidly he cannot expect to overtake an enemy who does mot consider the suffering or lose of animals. It is prombe too. that when it hats become too dark to travel, the point readed is without water or arass. or with but little of either. Hence it appears that no rule will apply to all casen.

It is wedl. though. th have eertaingencral rales ; for instance, in
mountain districts, when it can be julged atwat what the line of march will be. If the jownery is to be lomes and -peod is necessary, discard all the pack pesshble, place the man shanket wer the sadele blanket, leare saber, side-lines and mose-hags behind: in summer take no overcoats ; take a piece of shelter-tent a chatnes of choth ing, a meatration can, cantern and tin eqp. lariat and picket-pin.
 on,-all this will make dpack heary ebough in all comsitmee fior a caralry hose in a mountain distriet. It must be remembered that the march will probably be make withom timage unkes the trail may happen to run near a poat or settlements. amb this alone is sutherent reason for making the weight to be carried by the hore at lisht it possible.

If the speed necessafy to accomplish the objeet. reguire an increased grait, no specific time for the continuance of such grat can bo designated, as the rourhness and smouthness of the country must govern.

The long and rapid farch should begin at a steady walk. atter the first tive miles, dismpant, look to saddles athd straighten out for the day's work. There must be no slouching in the sadille: take advantage of all good ground and increase the gait there. Whethew it bo for a half mile or for six foiles; save the homes at all steep asemts and descenta. Hasing reached the top of a particularly teep mountain, it is well, before bounting. to breathe the horses for two or three minutes; but there is generally no necessity for haltinge except to remount, as the horyes are not apt to become windell it led up the steep hills. Station |a non-commissioned otticer at the plate of mounting after a descent, to make each trooper remonnt and close up on arriving at that ixint.

Keep up the march; thake lengtly halts only for water and always water as often as possible, keeping in mind that some horses will drink freely every two tpurs or so, when traveling fast. if they have the opportunity. The illea that no horse should be watered if all cannot, does not work well in practice, as it is better to have some trorses rather than none, capable of a great effort and there are some horges too which require more water than others.

To refer again to thelinereased gait.- in case a sudhle suould slip, let the trooper fall out jwith a non-commissiomel ofticer. atjust the saddle and rejoin. After the secoud cinching but little trouble will occur in this respect, unkil the horses become thin from travel.

In a march of eighty-f ene miles. accomplished in twenty-two hours, over the plains of Texaf, from a point on the leeros to Bull spring,

Guadalnupe montains, in lsal.onlyone mon commissionedofficer and four men mat of a trope of about fifty-five men. fell out tor a rest. They were temprarily exhathsted, but reached the camp about eight hours atter the arrisal of the trong and this delay was althether on accomat wh the men. not of the borsers -

On this mareli, wer a level country a methad marehing ditferent from that empheal in monntandiatricts was alophed. After the first forty milew were made at an alternate walk athl low trot, the men beitus dismomed necasionally and matehed ation rapidly for about fire minates at a time a a halt was made for abmut tem minutes in each two hours. men - lippiner bits and lowing to sadders at cach hatt. The mateh was then resmed at a that walk and tont alternating as it was felt the lureserequired. It is modubtedly the case that an experienced atralry ofticer can fiel when it is here to hold up his horse and when he can safely mose wat at a tastergat. A watelafulotervanceot the colamm will enable him th juder pretty correctly what his trop horses ean do.

It will he noticed that the side-lines are ammen the artioles left be. hind. It seeme th me that ther are nseless in monntain distride and generally in night herding. The horses and pack-mules should be herded at night it praticable: they should always be plated on grass quickis atter camping. Let the first sergeant hame his detail tor herd-guard made out so as to be able to designate the men for that dify immediately on going into line for camp. Wefore the men are dismounted. Iismount. unsaldle. leal to water. and turn out the herd. After this the commanding ofticer can look over the ground more carefully, it he does not know it alrealy and make his dispositions in camp so as to secure it acrainst attack.

It is. perhaps hard on the enlisted men to herd at night: but the animals must have all the grass they can get if they are to do any hard marching.

The long march. where speed is no object should be regulated according to the grass and water en route. That is. if it is necessary to march a lons distance to secure water and grass, it is better to do so and to lie over part of a day or longer. if necessitry, than to make a dry camp.

If a march has been acoomplished by now or carly in the atternoon and the hed has been grazed until sunset, it is well to place the animals on lariat at night. if good grass can be found in the immediate vicinity of the camp. This grass should wot be elacroached upon during the day, but held in reserve for use during the night.

In the inmediate vicinity of an active enemy. when it is almost
a certainty that he will get a part, if not all of the animals if they are loose at any distance from the camp, the lariat should be used as a means of safety and there are various ways in which to use it.

The following plan secures the horses, but prevents much rest to the men. Four pins are driven in the ground near together, the men to whom the horses belong lying between the ropes, using their saddles, which rest on the picket pins, as pillows.

There was a plan adopted by several ofticers, in the campaign of 1874, against the Comanches, which prevented any loss of howes by stampeding, but it was pot conducive to their good condition. The lariat was carried down from the hatter-ring through the near fromt hobble of the side-line, thence along the ground in the picket-pin; but this treatment of the horse was used only under circumstances of oxceptional danger apd in an open country. Where it is necessary to "bunch" the horses closely, (say where there is a small plat of grass,) or to shelter them in a nook surrounded by trees. the half lariat will be found necessary. Whena larger force than a troopencamps, it is best to have each troop herded separately, with its ow a guard, so that, in the event of a stampede caused by fright or attack, all will not be affected. It would be very extraordinary if an attacking party, or several paities, could succed in driving off four or five separate herds at one time, or that herds well separated should be all stampeded at once by fear.

If a dry camp must be made and the animals have alrealy been without water a considenable time, night herding would be useless, (as thirsty animals will not eat) and dangerous, as they would certainly attempt to stray away in search of water, and some usually succeed in escaping in sppite of the efforts of the fuard; henee they should be lariated. It may occur that during the day, too early to camp, good water and grass are found: in that yase a two hours halt to water and graze, is adpantageous.

In fact, good judgment muspmbets be ujed by the commanding officer of a scouting columy $n$ the varions situationer in which the finds himself, in the rough. wild Indian districts of our frontier. WILLIAM H. BECK, Cuptain. Tenth Caralry.


## POST insthection

THE ituclemence of the weather and the absence of riding halls or gymaniums at nearly all of our posts, necessitates a cessation of' military exercises during a part of the year. At all such posts, and at others where for any reason there is a period of inactivity, the following suggestions in vegrard to the preliminary training of men and horses are offered.

For at least two months preceding the opening of the drill season, the non-tommissioned officers in each troop should be instructed in the subjects of tactics, refulations, reconnoitering and out-post duties, temporary field fortifications, rough field-sketcining and the preparation of such reports as noth-commissioned pticers in charge of reconnoitering patrols would have to make in ti申te of war. In the wubjects of tactice and regulations this can be realily accomplished by the usual non-commissioned officers' sehools. In the other subjects instruction could be given by lectures. ass missioned ofticus a post once or twice fore the nomen a a aking them into the field ingood weathe for practical illustration of the subjects of the previous lectures.

During the period of theoretical instruation of non-commissioned officers, the men could be practiced in the manuals of the saber. pistol and carbine and also put through the "setting up" exercises. These drills could take place either in the barracks, on the porches or in the cavidry stables. if the circumstandes prevented their taking place on the ground.

These drills need not be of lobig duration. say twenty minutes "setting-up" exercises in the morning atte suard-monnt then after a short intermissinn thity minuter sabere exereve and in the af ternoon one hour devoted to drill with cqrbine and pistol, at hast one-half of the time being devoted to praticing the exereises for "Position and Aiming Drills." Gallery practice could also be car ried on during the latter portion of this geriod, using the time hetween the morning and afternoon drills.

During this same periol twenty minupe at morning and after-
noon stables can also be adrantageously employed in putting tho horsen through the bending and suppling lesons, the time allotted for stables being increased ther this parpose. These benditys hexsons can be given to the horses just as well on the picket line and in the stable-vards as on the ridif) track, and it is reasonable to belicue that forty minutes per day. for two monthe preceding the opening of the alrill season. properly deptet to these supplinars. expecially of the heal amil neek, would eliminate the fighting and struserling between man and horse, so often seeq in cavalry troppe at the fast gaits. Tho practice of these exereves has the effect of mot onty makinst the horses light mouthed and fasily manared. hut it also has the same effect on them as the practide of the setting-up cxarcises hats on the men. giving them a supple and graceful carriage and enathinge them to handle themselves well at rapid gats. The proper plating of the head ami neck, brought about by the bemding lesoons. necessitates. the horse bringing his hind legs well inder. therely mot only making him collected and handy at all saits, but relieving the shombers and forelegs to a large extent of the excessive weisht: it increases his durability and prevents his being "stove up" in the fore-quarters.

At the end of theve two months preliminary trainins, target practice will usually besin. If the position and aiming drill and gallery practice before mentioned hare been carried on simultaneonsly with the other drills. the troops prill be in good combition to begin shooting. During the first month of target practice fifteen minutes drill each day before Retreat. in the manmats of one or the other of our arms, will keep the mea up in what they have alreaty learned. The bending lessons for the hipses conh still be continued at morniog and afternoon stables.

If each troop has two targets. one of which is a little to one side and 100 yards in rear of the other. the men can fire at 200 and 300 . and at 500 and 600 yards from the same tiving point and each day's practice at known distance kan be tinished in from two to three hours. This will only necessitate target practice in the forenoon, so that in the afternoon a drill in the sechool of the soldier mounted, for an hour or an hour and a half maybe had.

For this drill the horser should be equipped with the watering bridle, blanket and surcingle, and the men armed with the saber and pistol. The'first twenty-filse minutes of the drill should be deroted to the bending lessons mounted, turning, circling at the walk and trot, and passaging. Devote the next ifteen minutes to the saber exercise at a trot. Thengrive fifteen minutes to careful instruction in jumping. at slow satits and with small jumpsat tirst. Particular
atcention should be paid to see that all the horses trot evenly and wollectedly: if any horse shows an inclination to break into a gallop, he should be fallen out, and his rider made to trot him apart trom the other horse- matil he will trot quietly and then only should be be returned w the ranks. The next ten minuted should be devoted to She mombted piatol exercise at a trot. exeruting the motions of tiring at the heat ponts. time with the empty chamber and after about two weeks. ocea-ionally wing bank cartritges. it is better in the first une of bank wartridges to bring the horses down to a walk until they ineome accustomed to the tiring

The remamber ot the time altotted to the arill should be devoted I. individual ridiner at the head-pots. u-ingraternately the saber and pistol. During the first month of the drif never allow a faster fatit than a trot. In fact modrill shod be faster than a trot until all the horsestrot evenly and quierly. buth indivinatly and in the manks. - If bending lesons hate puesersed erstematifally and the trot pre-
 that in three months time all the hores will tot quietly and evenly.

In teaching horses ter take the trot from the walk. let it be dono by a pressure of both knees and if necessary foth spurs. to take the mallop. either from the walk or trot press both knees and one spur, asing the spur on the side from which you desire the borse to lead. It may ber ditiouhtoreth all horses this, put it can le done by pratice

This tirst month of drill will prepare both pren and horses for tho - fintol practice, which takes plare during the buceeding month.
buring the bant month of target practice it may be ditticult. owing to the limited number of skimish targets uspally at a post, for the skirmish and volley firing to be so conductect as to allow time. each day. for a mounted drill; but with care suffichent time for drill may ordinarily be had, to keep both men and horses up to what they have already learned, and, in addition, to praftice the horses in galboping. At the mounted pistol practices durigg the month. particular care should be exercised to prevent the porses getting "out of hatad" or unmanageable.

After the target practice season is over it is tair to presume that mentad horses will be sufficiently instructed and hardened to inaug. urate the following series of drills, if the foregoing system has been thoroughly carried out:

FIRST MONTH AFTER TARGET PHACTICE:


Before begiming drills it is beat wdivide each troop permanently ate two plateons and thereafter therulate detaiks so as to take as early av posible the same number of men from each platoon daily lline object in dividine the tromp into platoons is to grive to each ratenant something he (an feel an individual pride in, and respon--hility fore as well as to create a wholeome cmalation hetween the Athoms themselver in rexard to drill ame so dierly bearing. If a antonant should be alownt anign the con mand of the patoon -. the nenior non-ommisioned otheer present with it. Each lieu. what under the supervion of the captain should be held responsi in for the elementary instraction of his platoon.



 : inn The men -hould le reguined to repeat ad mement until it is properly wetuted ti the same men make mifakesor it ther sliaht

 a mew movement shoulherer be undertaken uptil the preedingrones
 ase partionlar part of the taction in this wat exerutine a few new mixements eath day and reviewing those execoted on previons days, wiving sperial exphanation to men who were : beent when the moremente were tirst exeruted, it will be found that the men will drill mull better that if a haphazated method whe used. It will abso forilitate matters very much it the non-commi-soned officers are as-- mbled in the orderle room in the evening amithoroughly instructed in all the movementsof the next bay. By this methon, the selmol of : he Troop. monted and dismounted. can be datirely tinished in ten days. After this no time should be given to equmations and if any men make mistakes they should be punished.

In instructing the men in charging it is best to use a skeleton - nemy. placing the men at a distance of $1 \geq 00$ to 1500 yards if possihe. Half of the distance is traversed at a pot, then gallop to the Wharsing point which is about 100 gards fron the enemy. Special (are should he exercised. to see that the men keep their horses well in hand and keep closed toward the guide, which whould always be eenter. After crossing the enemy'sline, the thot should he taken, the men "hreak ranks" at command, and ride in all directions to repreent the melee. which takes place when two postile lines crows each wher. In a short time the troop commafinde should ride out from
the melee and have his trunpeter kound the "assembly." when the men will be taught to rally rapidly on the troop commander. The rapid rallying on the troop fommander camot be too otten practiced and whould be done in alldirections. To farilitate this the commander should direct the ghidon-bearer to keep clowe to him, and in rallying, the men should fatl in with their own phatoons. but without regrard to numbers or sets of four. on eadh side of the suidon.

It will be a good plan. if in all movements in line previons to the chate the troop commander gives "ruide center" and phacing himself four gards in front of the guidon-bearer directs the latter to take the distance and direction from him. The troop commander can then ride straight on the object to be charged ami alow rownlate the pare.

Above all things disabuse the mimle of the men of the inlea that a charge means a horse-race

In deploying mounted skimishers the pistol should he used, and in deploying dismounted skirmishers, the carbine: in the latter cane men should be sent to represent the enemy, and the skirmishers made to estimate the varying distances as they atwance or retreat, and adjust their sights accordingly, so that it may beome secoud mature to them.

Riding tracks can usually he casily constructed. in default of rid ing halls. Head and rins posts with leather or canvas-covered heals can casily be made. A ditch, three teet wide at one end and gradually widened to about tend or twelve feet at the other, revettel on each side with poles or fastines, can be dug in the neighborhome of the track in a few hours. Brush or pole hurdles can alow be constructed at the same time.

The first essential to the proper training of either a cavalry soldier or his horse is constant drill in the school of the soldier mounterd.

After the horses are well instructed and in hard comition, and the men capable of keeping them well in hand, an occasional ride across country, the officers leadiag. will be a good variation of the riting. track drill.

At each military post in track of 1000 vards should be mearared and the officers and non-edmmissioned otticers made to pratice riding it at the walk, trot and gallop, antil the established paces can be habitually taken and maiptained. After this. the Huctuations in ad vancing lines of cavaley will soon disappear.

If the forcgoing drills have lesen pursued for about a month, the following system can be fnaugurated and kept up until the troops are ordered to concentrade for tall maneuvers. or until the weather becomes inclement again:



It womld hegwell if eateh ofticer be require drills and if every lieutenant, in addition to required to take command of the troop at loas at troop and battalion drill: that any otticor. takes at drill or showing iarmorathee of the mi he put in arrest and court martialed ar sut brateran ot war.

Whenerer saddles are used at drill the restalation latek should be
(a) attend onu of these rilling his platown, be ome day in each week o ahitually making minwrerations of war.
time a retiring board. ation liack should be in packiner their sad.
dles but it teaches them how to do it properly and securely, as well as expeditiously. If a pack is not properly pat on. drill at rapid grats will soon shake it looge and articles of equipment will fall off. It is better to have this ocedur on the drill ground where the articles can he found than in activg service in the ficht. The improwement which a few monthe daily practioe will make in the simple matter of packing sablles is astonishipas. In ohe trong, that weknow ot, nearly every man lost some articly of equipment at its tirst drills. hat a few months afterward it could , frill for two hours at rapill fation and exe cute several $\cdot$ hatres in lind, without a single artide working lowe or a saddle settinge out of plate.

If such a system of instriketinn as the foreroing were curried out at each cavalry post, offecers, plen and horses would be in foom condition to mulertake fall manmeres, and work in grand and minor tatties.eouth be at once commenerl without the necersity of tirst fertian the command in shape be tow and batation drills.
some will probably contend that such a syom of drill cannot be carried out, on areount of the necessary tatisue, ete. bont as troop are now rarely employed for huldins new fors.s. and if poot commanders would only regatd tatigue work an a necomary evil and not as the end and aim of a shliers existence. some measure combla be adopted which would obviate ally interference betwern surh a sys. tem of drills and the ordidary work about a garrison. It least it has been done at one post where the writer surved. The old gratard can get throughal the ordinary tatigue work by now and the men be available tor drill in the attermoom. On saturday momines ath the command, if necessary, can te turned out the sencral tatigue ald general police of the pont, and attend to any thing left unhone by the old guard during the week.

Some may think that so murh drill wond create great disatistaction and apathy among the men and cause devertions, ete. It is also thought by some, thatone of the main causes of desertion is that the men have too much uninecessary habor and too little strictly mili. tary work and that when dff fatigue they are compelled to loat around the barracks with nothing to stimulate their mental taculties or axercise their bodies.

Even counting two and one-half hours per day for stables and thirty minutes for parade; there will be no time during the propesed period of instruction when the men will be actively employed ower eight hours per day, and as the Government expects and exicts that amount of labor from its other emphyes. it deespot semm unjust to
demand it of soldiers. It is moly ahout two-thirls of the amount of work they would have to do it emploged in entil life

Troop commander sometimes say: . It is haclew for me to work and drill my tropl and fet most of my mon whll intructed and then have a few extra amd daily duty men spoil thy apparance of every hing when the laspector comes armand." this is all very true if
 but got if be drills it with the ideat of making it ans efticient as pessihe, and beides it is certainly better to hate some mon well in tructed han bobe at all. Troop commambers can senerally get heir ont an and daily duty men at heast tworay per weok and if the give the men sperial attenton on the days amb have them Gustructed theoretially in barracks he the nontemmissoned officers



 atmont impo.ible to do anythine with theif extma amb daly duty men, but this is a-mally the exception and aot the rule and it cer-

 * Her mone than they are mate to do, amd whe regard themedres as whler me whigation: whatever to do any wonk for the nalage they




 whe are ambitions to make and to keep our favaly the best in the world, the torerobis will appear as nothing more than should be dene, provided it is possible to ateomphish it. They may differ as t. The details and methods of mating our carbiry the best. but none will dixagree with the statement that unremit fing labor and thought are necessary.

WM. H. sMITH, Dieutenant, Tenth Caralry.
the tritin no longer cormponding the the ne it would have been compelled tos do withou ammuntion, ambulance material. in a Word
sitites of the moment Aispensable to the life amd mobility of any lody of tomps whatever
 the cavalry wason transportation into tanfportation by pack-animals. a matter which in our day cammot oftidr ans ditticulty. on acconat of the perfection of the pack-saddle.

- The second weak point of our cavalry chasiots in the absence ot mountatim material in the compomiton of the horse-hattories attached (1) the cavalry divivions, The exigencies of modern wat demand almost impratively. the allition of montaif gruns to the cavalry, fir the reason that the truc role of cavalrod. hesides out-pont daty
 that is tosay, in rails against the adrorsary for or agathst his lines

 rombr. leare him no rest dayor night and user his-traterical comhinations. This end ean be attainel by the aratry only umber the


 havilus seromed itsobere at ome point. it can inmoliately mose upon and attack anothere without worrvins atome the state of the roals.a mameurer which is possible only with mountainartillery nerved by monoted canomocer-
- In order the better to illastrate the impretance amd neerevity of this kind ot attillery in batte. I will eite the thllowing




 th divert the attention of the 'reken. Thisfatathment was put in bareh on a lark winter night, without roably and had to coos ser ral canals amb ravines with sterphanks abod futely inntracticable tor

 hind whir-h 20wn Tokes had taken position. mamerical interioritr, the drasuons and Coss:
 pieces. havime been unladed and phared in bat : he kals athe the walls of the ramens. At -6ms. the detembers pure ifitately evacuated forsible tor ome detachment to adeomplish it

Ifol in the same vear atouther example rothe impurtance of mountain artillery noncers in the passage. be General skobef wed hy mombed can-Koper-Diarh, over ground absolutely impract cable for fichid artillery. This operation was of great importance. not only because it permit-
ted us to make numberlessingemesions, but also heranse it-- moldenness prepared the way tor the thtimate sureessof our arms in the abin at the Nkhal-Tike. The ong transpertation for the ertime experition
 crest, it opened fire on the falfersaty whose resistallee was mot revy serions, meroly because the momotain artillery di-lomeral him trem all ewver hehind whieh he fattempted tw eonecal himselt:
. It appears to me almogt superfurn= to ald that the introfurtion of momatain artas into the eomponition of harsebatteras done mot neecositate the suppresion of horse artillery of hishar caliher. -inee the latter is indispensable fotaltill other regiuremedts of wondern war.

- Passinge to the seombrombition whirh it is lero-sary wimpere on the eavalry. our attentfon iv called to matters wi molility and the rational training of the hotrose.
.-The satisfaction of that comdition is directly - uhbulinated: Ist. To the comblions of the hafres. that is, to their kind and their tratio
 chief as well as the soditiets.

The author is satisfied with the supply of aroul homen ohtain
 he speaks as follows
"I short time after the (rimean wat we almittur tiankly, in
 Were ariven to rebler the droup horse light and matituable











- As a final result we proved, in the lant war. that the horses ot our cavalry were very pporly prepared tor work: amd wh perrice trained in ime of peate that. on both theatres of wat. onf reminemis of regular cavalry beranto break down alter two or three serere marches.
"Notwithstanding this, during the war of the ('anc:asus. certain regiments of alragoons, monated like the others. and haviner heen on campaigu daty for severefl months, made marehes of forty milew in twenty-four hours. not only with all their basmatse, hut also tratheporting three days forage and five days rations, abd, atter so rough a test. they were in condition to give battle.
- Comparing these two facta, we cannot explain the difference existing in faror of the second, except by recombizing the fate that. at the time of the war against the mountameers of the C'aurasus. the
horsen of the dratoms had been kept in aqud condition and were
 tatisme. Mhis tate inspire the conviction that it is the ersary th give aretal attention mot onty the school thenines. hat aho to the






 manehine in time of war are oberem. It will the alvantarone to
 :ane ot thiteen to vixtern mile trom the fariom and momere


. The rerrulation- for the istoturtion of -rile. the werution of mand of of to tor 1


 mithe mate at the rewalatoms denism. and ment-without exceltiont

The tant that the revulations on this- whlien are mot puntuatly

 antinlle:

















 "ite th.. mumatainew or the momat of the -


he cavalry tromp preintern miles les all tho I: voun the deraile of innately the diapersion As there matrehes fiom that in atl the detarhine evillent reanolls. To

保
 live horse marht to he to
ther.and that he omernt 1j"'s. whore horme is his ablerstomb- 1 he loorsea thathent. Which arries
him away from danger ot which overtakes an enemy: hat such an experience acquired too lade costs dear and is dangerous. * * *
"We may asume, as a pule, that cavalry can make daily, at least twenty-fise to forty miles and that marches of sisteen miles should be exceptional. Short marches in time of peace are excellent tor infantry. but pernicious for cavalry who thas get into the hahit of marching at a slow gatita thing to be aroided it we wish ter render ourselves mobile and suited to molern war. It should be well understond that. for the armp. time of pater is not the time tor repose. but for preparation for watr: consequently. if the nece-sities of war demand a cavalry mobile to the highest degree, the latide shobld be instructed in conformity with these demands. and the horses should not be etermally kept in the ridins sehom or on the maneuveremond."

This Russian General attacks the ordinary methoos of instrueting cavalrymen in quite as segere terms. attirming that not lew than a year should be de voted to the individnal training ot the yound moliere. Lost in the ranks of the squadron he is too atpt to firget all he has learned, to ruin his horse, and th berome contirmed in every hat hathit. By increased attemtion to eally training all matter will be begun with method, and fit will be toand much casier to form and keep grod habite that it ha to rectity vicious ones alreaty acopured

It apperars on the whole that most serviee have things to grumble about, and we find in this paper. sur own everlastine complaint that we camot get our mop for military purposes that we have men of all stages of instructign mixed up together, simply beratuse it is impossible to get a respeqtable command in line without it.

Speaking on the subjedt of irrerular cavalry. the writer is inclined to deplore the introduction of Cossa-ks into rerular divisions. and he gives the familiar arguments that the former trons are lowine their former warlike qualities as a result of the ehature. In operations of an independent or partisan charatere he would asign the (owateks to the task, reserving the regulars, as a rule for the field of batte.

The paper ends with home rood ideas on cavalry leadershipe
$\because$ A happer selection of clitets is certamly of sreat importance in all arms but the chiet in the cavalry must particularly proses intiattive, presence of mind. dacision and energ. The necesity tin these quatities results not only from the sperial charatere of cavalre, mot (s) math from the arm, hat from the partientar vircumstances in which the chief of a patry of cavalry may timh himalt sulthenly placed in time of war. A hexitating and apathetic man, howeres well instructed, shombid hever be selected as a dhiet of a ravalry detachment. In such haphts the best trops will som: be worthless and incapable of remberidg the senvices expecten of cavalry. A food
 be imprernated to the very marmo of his bowe with lite, with en
ergy, with love of his profession, and he should remember that his bearing in service will tor all time affect and influence tho military bearing in service will tor
spirit of his subordinaters.
"I happen more than once to have hearh said of a chicf of caralry: - He is full of rood qualities, he is encrgetic, he rises early, ho is active, and he would be good in time of war. but he is unbearable in time of peace, he unsettles the nervons system of his subordinates. Peromally, I do mot agree with the opinion that an effeminate, apathetie and hazy chief is less danger ous in time of peace than in a campaign. and passing fat by, I mued prefer a chict who unsettles the nervous system of his subordinates to one who unsetter the detachment contided to him and render it useless in war.

- We know what cavalry has been worth in the hatads of men of valor with the knowledge of the protesion pof the cavalryman, nuch as a Mlrat, a Zeidiftz, a Dorokhov, a Figifre, and their successors in modern times, a Stcabt, a Sheridan, a Grierson."

JOHN P. WISSER.
Lieuknant, First Attillery:
－how a russian officer rode to the exposition．
［By J．Pavindiky，in supplenent littiraire du Figaro：：


LAST autumn，when the imperial mancuvers were taking place in southern Russia，a number of goung ofticers seated rombl the table of one of their momber heran diswumit the varinu－qualities of the war horse of Ruskia．They all agreed as to hitsurengh and his powers of endurance．From hores to horemen wat ing great step，and they went od to relate the various＂unetrian exphent known to them．Espekial mention was mate of a certain Count Zebovitcin，who，fitteen years ago，rode to Paris trom Vienna．This exploit had been alwaye comidered by nomitis men oomething re－ markable．
＂I could do more thatin that．I am realy to rille from this place （Lubny）to Paris，＂quidly remarked Licutenant Mikianed Astefef， of the Twenty－sixth Dragoons．

The rest of the party laturhet．
＂On what kind of a horse？＂kaid one of them．
＂On any horse，so lung as he is a Rusian charger．＂
This assertion seemed an rash that then prown looked on their comrade with amazemedt．Asseref was a well－huilt gouns man， with a resolute look in his．face，soft eyes full of intelliwencen，and his comraler knew him to pe ineapable of making a wain boat about anything．
＂Your horse wond sive out hons hetione goa reablad Pariv，and yourself，two．＂said one of them．srately．

But Asseber was not a Cossack gtticer fir mothing．In was thoroughly familiar with homes．He was not only a remarkably skilltul rider，but was gifted with what we call in Rusiat an in on frame．

He persisted in dectaring that such an exploit was quite posible． not even very difficult．

When the party broke up that evening the guests went back to

HOW A RICSSIAN RODE TO THE ENPOSITION． queer feilaw．with some old ifleas in his heal．

Ater that．Whenever two or thre of them met him．ther invari－
 iroliy：
 back：
－Ill wat for the oproing of the exponition，＂was invariably hix ：aいいと．
 amel a par－port．and then har disippratred．


 distril．t．
 －ital hatl heon intiormelthat a volumar math．

 With llast W：

 military－tyle wore all his hatrater

Whither was he ridines in surl hante：．Ind this question heinge


The matrest fiomtior was that burnemin at that moment．all the mewablap were trian otherer，when were visitus the tiontie
 $W_{\text {a }}$ it mot avident that this roung man wated he the police at st Peternure？



suthers war marehed off to the wate｜－houre






 －leared up．the－per yavinvited to take his bueals at the famly table． and was weated next to the matere of the hones．This gave great un－
easiness to the lady of the ispravnik, who whispered to her husband to be on his guard; for suppose the Austrian officer should eommit such an impropriety as to ftrike a blow under the table with his dinner knife at the representative of the antocrat of all the Ruswias!

But her husband ham 中ade up his mind to risk cwerything. Ho meant to discover the truth should it cost him his lite.
"Tell me now frankly" said be to hiw privoner, "since you aro caught, what were the instuctions given you by your government?"

The criminals only anwer was a hearty latirh.
This detention cost Aspeeff two days. It was his first, but not his last adventure upon hassian soil. Everywhere he met with preat suspicion. Though he todk the precantion whenever he entered a town or village to calfat buce upon the chief of the rumal police, the stanovoi, or on the ispravaik, he was not ahays made sate by this prudent measure.

One day in a little village near Kiev, a rural policeman wouh not let him pass till he had mputely serutinized his papers. He sut off at last, and had ridlen about twelve mile- from the village. when ho found himself pursued apd heard eries of: .ssop! stop!' It was the rural official. "Well. What is the mater mow?" . Our ehief has ordered me to take a cops of all your papers.

In selecting his route Mikunet Asabebf followed the example of the Emperor Nicholas, fho, when he was presented with the plan for the construction of al raiboal from sit. Peteroburg to Marow, which showed abundance of crooks and curver. took a peocil and dres a long straight line feetween the two capitals, quietly demark ing:
"That is the line which I wish followel." Like him Assempe thought that a bee line is the shortest cond between two phates. Ife stretched a silk thread adross his map of Euroje from Lablys, a littlo town in southern Russiaf to Paris. and make that his route.

On Russian soil, which it took him two werk-tuget orer, he found his way without any sertous ditticulty. His mall was patan betore him, but when he reached Bohemia and bavaria. the grand duchy of Hesse-Darmstadt, and that of Laxembours. his route lay up hill and down nearly all the way. As it grew dark he often eame near breaking his neck over rocks amel precipices.

Assefer made no halte for rests, and he mole at least deven houry a day. When be reached the inn where he proposed to pass the night there was no rest for high. He had to see about stabliug his horses, and to wat until the were cooled oft hetore aving them water and food. He mever trastedthis oftice to anyborly, and it took him about
wo hours to give them proper care. When a last he could sit down to his food he had to satisfy public curiosity- the whole village tarning out to look at, and ask questions of the mysterious traveler. Howerer he might be bored, he knew it was food poliey to conciliate the villagers, and so get them to give fim local information Which misht he of use to himen route. All uhis may be cosy enough when one can speak the baguage of the eounter. But Assempe wat not proficient either in German or French. At last when his inter. viewers retired, he was free to make his bed in the stable with his horses.

Two deas hatunted him during his long thirty days' ride. What -hould he do it his horses ware stolen. or it they fell sick?

Twice he had to have them shod by strangers, and cren now he annot tell you what he telt, without emotidn. Suppose they hat wher of them been lamed by the carelese priving of a nail! Alt would have been lost. Whena man succedsio an masual enterprise rery one is charmed with his pertormance. It he tails they jeer at him, alld eren it the failure be dae to mere ad dent or a loose horse thoe.
"The first time I had to take my horses to the forge of a village Wacksmith," said Assibfr. I went ott, not having the heart to be present at the opration. the thought of whikh to me was absolute torture hut I had to come back. for my horsed could not understand the blackmith. Thes wanted me as an interpereter."

One of Assempes greatest difficulties at first was to prevent the Hasging of his horses. They had been used to regular exercise and to) abumdant tood, and could not have bonno at first any unusual tatigue. Asserf put them through a sperial training to aceustom them th the work he experted to get out of them.

At tirst their food wasonly bran and hay, then equal parts of bran and oats, then only oats with sometimes a little salt. The horses ate neter less than thity seven pounds of oats and nine poumds of hay a day.

In proportion as he increaned their food. Assefper required more work and more speed from his horses. It first they made about thiety miles a day, bat by the last week they forld arcomplinh more than serenty.

He himself observed mospecial regimen All through his journey he slept ouly five or six hours datily and atter the first week he telt no tatigue. Indeed, after riding fitty niles and boing eleven hours in the sadille. he dismounted as fresh an if just heginning his day's journey.

As long as he was in Russia the days did not seem to him Inng. but after he had passed the frontier they becance very weariome.
"I hat no resource." he said. "hat to retresh myselt with a fer mouthfuls of good brandy, and I had momely theak to. The dien. mans seemed to me all alike. 1 coold take in, interet in them."

It mast be owned that Asexper took little interen in the combuties be passed over. His inteqest lay in matters comberted with his journey. The question that interested him mo-t was one that he thumd himself obliged to solve by his own experience. Which was beat for speed in the long rum abd fior the heath of the harse. watk or trot. and it trotting. how much rest was neressary? He arrived at the conclusion that the best kray was to het the horse under the sadile. make the hest time possithe. His days work was reenlated in the following manner: First he startedat a walk, thentook fire minutes trot in every half hour: then tive minutes trot ewery quathe ot an hour, and then steadily then minutes walk to tow minuter twot. In this way he was able to make between six and seven miles all hour
 years of atre, and was of the bered of Little lansia. She was ouly a troop horse. The other. Imana. was arow of Enalioh and Rus.an blool. She was five yants old and hat belonged wan oftiowt. Bonh were ridden, turn and tuph alout. acooding to the Turkish entom. The first twenty or twenty-five miles were male on Ibianat the remainder of the day's jonfore on Vhasa. When biana was riblen
 low ot her own aceorl. beipur sometimes a humbed gards behind. She would stop to arate or teplrink in litte streams. trom rankike timn tains. or from the paile. ff pasatht women: but if we lowt sisht of Diana she neighed amxiobly, and came up with here at a rallop

Both rider and horso suttioned math trom heat. The bunts it the latter were disposed for erack, and the had to be softement with
 was besieged with questions as to where he wav groing : which he


He did not like to teth the (iermans that he was homal tor Frande. fearing to create ditticulies. At every frontier he was bothered by the officers of the coston house and he hat to pay a d awhark on his horses. 'This done, af ribbou was hume rombl the homes meeks. the two ends of which were fastened by a leaden seat, which alsu served as a sort of paspont for the rider., Fsery time a local poliee man showed any doubt an to the anthenticity of his, papers. Asaefer pointed to the seal attixed to the ribion.

One date on the frontion hemwen Bohmiatand Bararia a sentinel

 alwarl and hamiliatingr. I I have ridhenan inmense distance." satid the Lieutenant. -junt to prove what I can dn without a railmad.

The semtimel returul the quation th his fureriore and he in turn 1.. his ehier, whe wor wer bey the haty of he two horace permit. tod them therom

 whicr siazed the berdle ot lis haroe.

-Tい the Expunition.


- From liania.
 m-pite of hiv paper beine in ordere They ank him to their oticer



 comarys ally athl he was werwhelmed widh smpathetio demon -t:ations. When herome off in the mist of tricodly anclamations,

 -ile at cosarli. 'rhey were mot the hat atiqut of him, and wanted him to let thoms
 wticer caturgt sight of thearlijet that was an end his fournery tho

 miles, amd had beed three homdred and thirer-nine home and a half in the sathlle hut he semed as treb and gat as it he lad been taking a mere ride tior pleasure. The only phystal chathse he coold perweve in himatit was that he had low cirgt pemels.

The simelar exploit of Assefe hav dratio on him the attention of his Rumian military superiors. The Rufian military attache at Paris, Baton Frefererickz, was expecting his arrival, and had telegraphed to the frontier. begping the anthorities to send him word when the Lieutenant passed them. But when the telerram was sent the Licutenant was already in laris, never squecting that he was an ribject of interest to the Russian embassy.

General Freederickzs received him very cordially and presented him to the French Minister of War, who kindly offered him quarters for his horses in the stables of one of the Frefich cavalry barracks, and the privileges of a French officer.

Reader, if you find yourself in Paris. and meet upon the boulevards a tall young man lof twenty five, handsomely dressed, and with something peculiarly gentle in his looks and manners, you will find it hard to believe that he is the man who made this wonderful journey from Russia, a feat unparalleled in the anmals of Europead equestrianism.
in the summer in recognition of the thet that, in the shring. it was not persille that everything could be done with sufticent thorough. ness.

I found, upon raking fommand of the Twelfth bivision, latit it was contomary to inspecy the instructed -yadrons on or atter the
 tion that cach benty of trouse would be insperted but mee daring
 greaty furthered, as the frops were not depmived of their tame tor instruction ly any more hate of inspertinn than were atmataty necesiary.
 fpections on the satme dat. I myedt: as well an the britale anmmanders joined the resingental commander when he male his spad-



 carly spring when the tend erature is mont chaturable. when on wery warm dacis the horses shed their hair ineels. white on cohl. stows


 that either the hosers atte muth debilitated or the equatron is mot property instracted. For the followins yan laxal the time tor the squadron inepection in the latter fart of June. an that by the ebol of
 of thatas with which me order was received be these spuadronchiefs who were interestem in the wellate of their horeses

The result proved sonatistactory that the bullowitur year I was confirmed in my decision. This enabled the -guatrons th pentpone the detailed instrution in equitation until the end of $\lambda$ pril. Every zealous calvalryman will feel how necessary it is for corret (ompany equitation that the entire month of $\lambda$ pril be siven it fire the purpose of putting on the final finish. Every cavahryman kuws how much less a thoroughly broken and trained horee is fatimued by such changes and exertions as are unavodable during instruction, than a borse that has to contend against many difficulties that he has not yet overcome.

During the latter padt of April and tirst part of May the regi-- mental commander makes the final inspection of the detailed instruction in equitation. The following fortuight may be occupied either
in exereves of the tronp and the platemen, an hringing up, in their instruction, such some homersat the mesmental commander may hat -fretion an beithe in need of imporement.
 $\therefore$ Sun wiven ly therimental iommander at ratr.
 Ah ot May at which time they unw hexin them. They eren have





















 t.ent anly be in comdition to exechtu them, bat - xitei white swophent. The youns recruit (ath only berome acGatomed gradually the sharp gallop, the woine of the trampling incos ahont him. the eloude of duat and the sharp wind: he should :ut pleasure in them. should teel himelt perfe fly at home, and hold 'se and ear open for the sign of command of his leater; he should tit tire but such movements shouh be stimplants to him. A cavaryman who feels thus, is lews heary on his horse and does not taliste him like a rider whon filled with anxicts, and who, by crowding and with a heaty hand, gives the poor horse wrong guidance with the bridle and hater.

- perially devoted to , 1 not fully ciducated,小-aignaced at his inTha - guatron-chicfa 1uto cflem the instrac-i- in-pertion the same - Tonsery it. owinto to hat loohtiner is satimed thim. that juntities antur. hey mat not berome

It is therefore rational treatment of the squadron to erahaally in crease the exertions of the horses during the course ot instraction in the evellutions in such a way that, thatlys thim requirement an be answerel without injury them.

I have previously atated that lhave seen this dome ame that no horse in the squadron way hown. The homeswereator in frout an-

 troops misht tot be wardied by the exereise beint cextembel wer six weeks amb. likewise, if order that motime misht he bot trom the other branches of instrudtion. I desisnatad the emb of Jume as the initial date for ficll work fand dirented that the comes of instartion in target practice should be well adratheed he that date, and that both branches of instructon should be completed be the end of tuly. The instruction in target prantice, and in tieh work. eatn wo hamd in haud with the drill- tairlf well.

It is not absolutely ndeessary that the horses be exereised in the open air every day in order to tet them in wom condition - of wind." They might be left stationary for one or two days in the week bexides Sunday, but daily exercife in the open air is beneficial to the ado eral health of the horse. This latter consideration has given rise to the following routine: shathon exerefers three or tour times a week, (in groing to and in returning from the drill groumbe each command must mareh in war formation, viz: with detachment of obervation thrown out, measures taken atanst supprise meanures of serurity. reconnoitering patrols. ede., and in this manner firmly groumbing the young soldiers in the forfos and principles of this work): onee (ath week tield exercisen shonht be practiced. and. it the growl of the homes renders it alvisable, this daters work should he at a walk or sow trat in light tield equipment once or twie per week the have tarent practice and the homes are riden to the target ground at a walk and thus receive their mented exercies. On drill days they mons an batck to the elementary equitation of the ridins hall, and not whill hy platoons with a mixture fot the instracted amb uninstructed melt and horses, hut by classes (hemonnts, serond and tirst clawes, and re cruits). Thas variation prevents canai.

According to this artangement the inspertion at the conclusion of the exercises of the equadron falls at the culmination of many branches of instruction, fiz: the clementary exercines drill liy sisnals, battle mancurers. eqements of feld service. riding by ehanes on the parade, individual combat; and, after the spuatron is recalled. the young remounts arefinspected in the riding hall. Naturally, so

 anay eavalremen who are mot acentumed to it, when they hear




 and to their smonth and. Which is the chite peint. if ther have
 : 1 . 6
One apparent meane ot -paring the stranof of the hames at in


 With the best will in the wordd. deliges catmen - tue superior is detained by some unacoidathe ame happens that the splatron. which wom .ot an hour tow carly than lalt a minute too an hour in the tiresome paralle position. Ti .rtorn and aborption of strengeth: and, besid Wat mathy hown from weariness berome reat bine bid, and the first alignment in cutirely lo "ho has alismel his tromp earetully gives the e
 atal is as much surpriad as the insperem is dis.
 - aecedingly well drilhed excite. in this way. th tand or impatience ot the inspector trom the -athe a jarade mareh at a walk in which the their wattille were quite reaters and tillact? - Hiär receivel a very untararable imporsion at ly the condition of a squatron and mot hat apar. it is rewommended that it be direeded the stathe that the in-peremere there athe o at the athe spathon is formed in lime on the stable groumd. In this

 :at be carctully examined. The double resplt is obtaimed of an ".humy of time and of seeing the elementary field work darine the warch to the evercise sromed $T o$ acomplifh this it will be sufti-
cient to require the squatron, in marchinis off. to carry out some very simple tactical idea.

The squatron arrives hom the drill aromad at a trot and attacks a supposed, or representel domy. It two squadroms and heint inspected at once, one can pe sent off tirat, and the other can follow and a collision call be agranged betweon the two on the exereise ground.

As at general thing in the elementary exereses. when there are two suadrons, one is tiry put thenth and then the other. the un.

 dured wherever desed. For relasationt - the proticindey of the
 as one clase is comployed the others are dismonnted atheror. In the class itself only two or three horses are at work while hhe other ate

 and thrusting at heahs. ene. Finally he sumatm return toymatere



 half the time with the hedle reins in the hathin of the dimmamed
 whether the horses rest int the stable or in the opellatir. The stratere the rank of the inspector the more apparent it is that he athme de-


 undertook thin kind of: an in-pection athe it he did but hase the necessary time preferedt to inseet but a pat ot the syandron mather than to make the inspee fon less thorousth.

Allow me to mention a tew more details that have appared the me worthy of special mention in comection with the exereinins ot sinfle squadrons.

I touched above uph the subiect of drill hy sirmats. Whith is authorized liy paragraph 110 of the resulations of July. 1sia. When this regulation appeared a single sefatron-ehief exereised his troep in this way, not ouly as pegards movements refered to in this paragraph of the regulations, such as to adsence. Wh halt. and to change direction, but he also especuted most of the platome evolutions, such as breaking into column, and half column. forward into line. change
 baismatile that the -qualrom mant ride at the sait at which herode.


 : owerihed them fire all the squadrons. In tant
 at were torbinhen ly the orderentrolurine th - ault waー -





 : bat a command hal in this waty might sumer


 I hat retimoce to when I -poke of the imple intiment: hut I wasider tr ather a batan to :
: simply aborvine the motion of a ather ber



 . !. 11 throush a heire to provent mintake. It 1 $\therefore$ als motions ot the sther were mene cort and that thowe bermmand and that atiod
 '...sement-wore exocuted at all drills, whelle :ath.

The satme paratraph prowrilow that the
 ree in this ather ammine commatal ot the e bis ridins upon a desisnaten objeet is mot aremely dithe ait to strike the abjeet. My
 ©n in which I stood and shumbt strike me "padrons. Were sarme ever exeroted. Ma $\because$ me still havder wat it when I mosed.
followed suit. In orthe sínual emplowed, prowel the heat and - he went tarther than wore ou:a-iomally seen eremulations. but the The chict: threw their 11 ]monlle tormations. It producol a pera. ra anumbor command,
ground was -ott and valry eame hetore me in it may low imagined in reachinut the flank Ther idea that :a -
 ar bot. luwewer, what trant realta of the exbemb. Trompledribed
 customs the otticere to i- impurave and. in -h.-the hathit oftalkuch want ot hiocipline, - he -tate. 1 ha:t exer.
 they hatd been pata-prexi-क力 with which - ly virnal or bom-

11:atron mant be ex.0. hat a punaliar experi viviou. vir: that when perially pratcticed it is redere that the equat. - in proroon in tre jons. ith the center of their of the spuadrous shot only at a walk. The
guide was then right: singe that time. Gon be praised, the guide has been changed to the center, and the officer ot the directing platoon gives the disection; the wen really bave to follow the ofticere who is the graide of direction aft grat and trom whom the reater graide (tile) keeps his distanced: this is a great improwemed. Bat this exercise is very necessary and especially againat obedowhich are in motion. The main thitur is. that the equathon he the to attack the point against which it is divected. Ot what unctis all mur instruction in equitation it the attack talls upen our triceds instand of upon the enemy. In eather times. hetore 1 han any watry umber my commanh. I had trequenty heard the tant thand that the leater could not strike the objedt attarked: hat heone shonked the untion
 they were never given time to le:urn it. Now, thatt fle whide is changed to the center. it is newsatry that the ewoluthe -hoult be
 they will be in a hither hat thither waverine ravalry fetion the the gaide (ofticere) rides at tie tull attackiner sat ami makes at change of direction in burline limeste against a movine whietr. the piratal wing will be thrown int a confuand mase whik the onter witus will be thown into open orker. He mas ride hiv curvint lime in menterate pare an that the puter wing will be abie to (onbe manl and the inner wing mast kede in lime with it: atherwise he all irmerular one.

Lat us say arom of irresular attatk- How often has it heen
 be ridhen in close order: But. my homored triemls of all arms. all the stying and writing in the worll will to mothing i
 demonstrates why the attack is irrgular and ha, it is The regulations show how an attack is th he mate on gromal. Still more proutiee is neresary in makine : a movinte wijert. But diat is far trom -utho.iont.




 dismeler, when it should come up like a lising wall. Them. these is
 pronounced quite inconeeivable and unheard ot: hot horome intormthe much-reviled leadel how, when, and where the datt mixthated

It is easy to foresce that the expressions, mob. band. horite ete, will be iphediately heard. But where was the trouble? How is it to he aroided in the future? I berer heard andarwer ariven to these quevtions.

Fet the canse of the falure was very apparent. and was sufficient
 attention to the catnoc. would lave done mord geoul that the most se-






 with "plitted ather. immentately atter the onnmand. . Wheel." ambld


 -tat when it moser att. This tant is mulh mere at to orone with














 of tilce right in tront should be able to eke.onte the right about, finm thres. fimm two. execute the left ahout, and thea whed int lan and -tand like a wall. From halt :at hour wat hour of each
 must werer be a shere or elonitur up, othervise, alas! alas! alas!

When I. with the minte ot a layman, anted the reason of this. I revived the answer: . This is abohtutely nowary in order to pre fore proper intervals when a syuadron matehing in a long column
comes to a narrow defile." In war, I have newer seen the cavalry march otherwise than by threes. and not a single one of all the squadron chiefs whom I have interrosated, havever mate upe ot the atove maneurer. How mueh chere strength and time is complacd in drum-

- ming the school of the suadron into the mens he:ts . Now many horses are injured in the thoulder by beins palled up admentr: how many are injured in the fetocks in order to provide :qfans a never occurring, but possible dentuatity : how much time :and -trenath could be spared tor more important and mane paction itsonaction.
 if it were held to be sutfigient tor eath man to lanw where he shond
 and if the ehamging tron one formation to another did not make an
 and ambering to the meh that the $y$ have herome pedernial in the

 about." It would be much more to the pront it they pere tanshat to take up the trot in long eohmms, rather than the piaface trom ane formation to anothere tot the chict thing is. that the shat. where and eohesion shouht be groes mudur all eireumstances. ath thot that the changes of formation shonld be well esereuter. Is there still a rue hansing behind us whiche it would be wall to cht oft? My comatales of the cavalry will certalaly not take this expmonion in had fatt tor
 certainly be thanktal to phe and will aly: Yes it the rexnlations will provide that this squadron sehool shall not be insperten with the precision of a batalion of futatite then I shath wot weafy my men so much with it.



## 



$$
\text { Tramin!! } \| \text { Mrs }
$$



 :






It -hath be caretally impreand upon the men that the horses



 i.. :









The man -hould embetror to in-pire him tith contidence ath ho


 anotyg the now olls.


The first object to be attained in traininge the hotse is to render him gentle and tractable bererresive lesons. Fix this purpone all proper means must be mployed, such as teediner. handlins patting him, taking up hispect. etce. and the practice of the longe.

When the horse will allow his feet to he reatily hatledalal lifted. the tronper shond prackice gently tappins them to aceustom him tu the artion of shocins.
 nations and to gain a thoroush knowledge of his ablition in order that he may know how to take alvantage of these qualition in the future:

Every action of the foldier should have a tembenc to indmer the horse th have a full contidence that mo harm iv intempalat aothings but kind treatment is to be experted.

On arriving at the thomp the new horese -hould ble led intestalla




 or barley areat care nuat be taken on serions tronghe will bollow By commencing with the latere part of the ration and atitur ot has.
 will gradually be brought th the habit ot vatibe the nerviee ration without injury to himselt.

From their arrival the horse shond be extreind oble or two. hours daty in the openpair. For this purpore the now hore will be
 him. Who will be himself mointed oll a well tmainel frome After a few days a bit may be placed in the youts bume formb and the reins tied lousely and thrown wher hiv monk.

 that may be aljustede whth a buekle. I ring in whif tw theten the longeines strap is attached to the tromt part ot the none-band about two inches in front of edely cheek-piece -ymare: thet is abo a dom ning ring in the chin strap for the longe. The longeinger stap is from twenty to thirty tion longe. The lariat may be uned.


faced about three inches above the nostrils, so as not to affect the .nsers breathing: it should act both as a mor-hand atod rurb, and - hould for ower the shattos. It must mot be puekled so tightly as to able the horse umeasy. An additional stmp from dueek-piece to beek-piete umber the jatw-bone will keep the cavesson batek from
 it to atam the home.




The pratice of the longe is tor suphe and teath the horse the
 4 thtthe him tor the catalry service.









 :anomally it the hore is inelined to hathe park. It this dones not








 -n"t, the man with the whip lacing earetat pherp the home out to - lie line of the virele



The trobler holding the lonsedure rein whald have a lishtand asy hathe For the tirst two or three days the home must wot be

 Ght again, chamgine from the trot the the ralk and hack arsan in
each case. He should bed frequently halted by exuty feling the rein and rpeaking to him: and at the conclusion ot eari lewom. the rein should be carefully shorened and gathered up in the hath athd the horse-led to the center of the circle and carewed be one being dis missed.

After a tew days of the ather practiee the herse paty he urged a little more in the trge. but the wrateot abe and athontion are reguisite to teach him to pre his limbe without tranine them. Mmeh
 cible pull of the longe.
 fatigne or tret the hor-e. they sloullthe shop
 time patiner and rubbing the horse about the heal and anok with the




 tion of the amimal. The longe will be ured to iant fact the mow horses, especially it timifl, to jump the hat and iiteh.

Betore commenciury the benting lacoms it is wel hoter a preparatome one fot obe lience power mall has over hin Thic tir



(r.) up to the howe pithim on the mok, and eveak thim: then
 from the eing of the bit with the left haml: take sur prontion at to offer as much resintande as pesible to the horer, - hand la attempt to break away: hold the whip in the risht hamb, with the perint down; ratse the whip quietly aml tap the hoper..." the herat: the horse natarally tries to move hack to arod the whil: follow the borse, at the satme time pulling arainst him, and comtifinine the use

 whip, soon ceases to put, and movere forwand: then dpop the point of the whip and make puch of him. This repeated gnee or wiee. usually proves sutficient

## The horse having tound hat

anishment, mo lonser wats ber the appication of the whip, hat an--ipates it. be movins up at the slishtent fro ure.




 re indined bobit.
 Molent of the rems

The rumbing pill emaint of three parts:











 mawing it hatk athe somewhat downard mand the hense brant. - nle.

## Be, Hf ly Lisom,




 fond on the proper carriare of hiv head and pork.

A fomen home unally tries to resint the bit. either by bending if beck to one side. be stting his jaw agatht the bit, or by earyrag his nose too high or too bow.

The bendiner leanoms sure to make a hors mamaseable by teachar him to contiom to the movementa of the reins, and to yield to (her pressure of the bit. Durinas the lesoms the horse mast never be yruied.

5as. To bend the horses neek to the right. Take a position on the war nide of the horse in front of his shoulder and tateing toward his acek; take the off rein close upto the bit in the risht hand, the near rein in the same way with the left hand, he thambs toward each
other, the little fingers ontward: briner the right hand foward the bodys and at the same titme extend the left arm on as on turn the horses's head to the risht.

The force emplogen mbet be sradmal and propertiondrathere sistance met with, and cade must be taken mot th beine he howes
 the pressure mationating it imposible to atoid the retraint in-


When the bewl is complete. the herse hals his leefol without
 him resume his matural porition by despees. withomt thowins his head arombl hurviedly.

A horsests a rule, change the hit when he ceases to fesist.
The horses nerk is beht the the ft in a similar manner. the man standing on the off side.

 hand, and the off rein in the left hand. at atome six inchefrom the rings, and draw them across each other till the horse sfes way to the pressure and brings his nose in. Prevent the horse fom raising his head by lowering the hamds. When the home gives way to the cros-presure ot the rellaf. sase the hand and make much ot him.
561. To make the lonse forer he herel. The trongh will mow monnt, and, taking the right rein in the right hamd. the left rein in the left hand, will lightly feed the month of the horse. Then hohb ing the hands low, he will phay with the hit, senaly drating in the reins as the howe dropt his mose. When the horse, prening his mouth, yields the lower jak to the bit and bringe in his bead on that the face is vertical to the groumbl the riber will release the temion of the reins and caress the horse for his obe lience. By derpers the horse can be tanght to depress the heal to any extent.

56 . To malie the horw decate the hedr. The rider will induce the horse to clevate his bat be hobling the reins sepatated. as de. seribed abose, and with edrme extembed tornamd, make light palls upward upon the reins. When the horse has wheyd. We rider will lower his hand so that the horse can lower his muzale. amillue will then quietly demand that fie face of the animal hatl be brousht int. the rertical porition.

50i3. To bewl the head to the right. The rinler will hollt the reins as previounly deseribed, had. deawing the risht rein toward his body, he will carry the lopad of the horse a little to the right: the left hand will he used to measure the effect of the other, to keep the
ace of the horse vertical, and to aid in keepher the jaw plant. The fike should be satiatied with slow presres. beat in time the head dund be brourht round so that the tace wit the mose down shall ...k to the rear. By this exerete the whole tot the had athe berk

 wat hack to a lime with the lwhe and the rerieal pmation of the
 :ar the head will be hent th the lett.
atit. Atme the hore has shmitted quichly thiv instruetion a will be repuired to mose boward

For this promere the riker takes the suatherem in each hathe and Bul lightly the horses munth: the man with the lonere leats the
 at a walk: it the home shows any diepmition for kick or phange the inser is shaken lighty tw chate hiv attendion and beep up his in:ul.

Ster a diew times the bider dismonats. He horse is petted and fomiond.

These lewsons are continued until the horse catn he made to go
 ation of the aids.
Thruring the Horse ati:


 frosbore are moldon foreothen and it is impertant that each move
 L- ta: or vimility the hore should be allowed womell or touch theln with his nowtrik, for in a certain sefore ther are to him what - 1 . Rinsers are to mata.

 1 … ath ot matis power ove him. He is thas mate to submit to









During each difl every borse present will be thronfor made to lie down three or four times, and in exceptinalal eases detener. The application of the s.vien will at first be contined to dimply throw. ing the horse or making him lie down: and later th tirines in the vicinity and then around and over him while in the requmbent pun-
 be applied for the purphes of diociplinitis refrathoy horses at nombted formations.



Intallible rules cambot be laid hown tor the perpere tratinate of all











 buckle ald wo keepers chacon cach silfe of the voral

 In lin. ab. "No. 1." and the stirrup atrap tim"......

 the strap tant and pass theitree emb over the forme hade trom the oft side and under the surcingle trom tront to rear. the tiee and hansing
 in it. Paw the tree end of .. No. 2" thromsh the inmide herper and mate
 with the buckle outside and draw it sung: raise the here agatos the forearm, pass the tree end of the strap. from the inside. prer the fore arm and buckle the strap kufficionty tight to hold the lew in thia position. Iet the bridle reins either hatg down or plate them on the neck; it is important that tie off fore foot be kept tront the swomd after the horse first raises ft, and this will be more surel- seenrell if both hands are used at strap" No. 1 "durins the tirnt plungrealthonafh the horse will be prevented from plangines ow violentey it the reins be hell in the hand and palled down to prevent raising the head.

Tlte trooper takes his place on the near side of and cluse to the
are behint thr atremske the laft foot in alvance: the left hand


























 r.an phated that he and erap them direeth the home attempter - •吅。






 $\therefore$ :ap shold not be removed. The exe in a trud index ot the lomes - lines and dispositinn and if elomely obserwel will alway betray i- intentions.

Ather remaining in the lyiug position for a flort time, after the -aps have been removed and he no longer steqgeles or attempte to
rise, or if he attempts to trise and he cannot be prevent drom doine so, the trooper should raise the horses head a little with the reinand command: ['p.

When the horse gets ap, he should be made much of amd sivent." understand that he has done what was kenired of him. Repeat thiexercise threener tour tinhes at the time drill. In sulmequent drills i: may be had from three lo cight times. It will he fonfol bertere now to have the excrese repeated in rapid suceronom leat fine harer he come discouraged and dikersted.

To Tearh the Mbrar to Lie Down Without the Strip.
56:) The horse having been thrown amd hamelled hitroveral sue cessive days. and there being reason to suppose he underotamls for what purpose the strapk have been used. he may be tatug to liu. down without using them. The hore is equipled as betore. The trooper raises the near tore foot and holds it in the $\mathrm{g}^{\text {endition as when }}$ strapped up. with the lefthand. which also holds the refus: with the right liand he grasps the surcingle and pulls downwided and com. mands: Dows: holding the left tore-leg on the bent fowition mitil the horse drops on both tinees. It the hores he show in dropping on his knees, the trooper may lightly touch him on the dfft fore-lese at the same time commandigg: Dows: under no cireumstances shont the leag be kieked or force used to compel the borse to beml his kned If the horse has been sutficiently and properly instaneted. he will kneel qud lie down. after which he shoubl the caressed a hal mate much of. If the horse refuse ta lie down both straps should be used at once. and the horse thrown seferal times before making andher attempt to get him down without them.

If, however, the horsed has obeged the command. he should but it: the earlier lessons be required to get down ottener than three timeat each drill nor should he be kep down longer than few minate.

To Teach the Ilorse to Lie Iomen at the Command of the Trimper.
5bs. The trooper hopla the reins in the left haml: He lighty tape the horse on the leg with the right hand and eommathe: Inws: the horse will probably turn found on his fore sect a tew tither. with hata: lowered, to make an expmination of the gromme the drop on hiknees and lie down. Heshond then be mate muth ot. It the hore
 obduratedse both strapsas in Par. obic; But the trowner mont per severe xntil by one of the methodn the horer is corplilleit th lis down. It is at this sfage that the greatest care and paticnce must $\mathrm{b}^{\text {a }}$ exeryised, as harsh treatment. ill temper or tailure to compel the borfe to obey may defea the advantage of previous interction.

## To Tiach the Heme to Remain !atet after Hipling Been Thrown.

stas. It will be tound that some horsess even atter havines been
 amoved. In sulh a a-a atter the howe has been thrown the free
 $\because$ "n the near kers an as to kep the off me kerf in the hent position. fore troper mas mon quit the hore and pemit him to strugerle, : and or phase without restraint, until exhanted and willing to bie - .awn and romain duiet. The tronper shomb now hamble him: it the a Pe makes mo further strurgles to free limpelf. and the eye indi-
 -n should be repeated until the hurse rema na quict while lying $\therefore$ an.

Eate. To hold the horse after the straps have been remored, fiace the knee asainst the horses head just h himd the ear, and se-
 line gromad.

Ti Anenstom the Minat tio the Report of Fire-arms
:at. This part of the horse's education shoqld not be commenced mait he has become so familiar with the strap that he makes no re. - vance when they are applied, and has becond acedstomed to lying fown. The tronper is armed with a revolver baded with blank anmonition. The horse is thrown and secured is in lane Eta!. He is ran shown the pistol, allowed to smell it mate familiar with the -nand of the cocking and the falling of the fammer. the tronper at the same time talking to and caresing him oo allav his fears. A lamk matridge is fired near him. The boree will be starthen but li- tiars witl be dispelled be kind words and careses. The horse's tia- havitur heen quicted other shots will be figed. hut the same pre© Ation will be bherved atter each shot as enjhined atter the first

At tir-t vicions or very timid horses will probalyy rise to a htacling porition atter cach shot.
 :... matar the horses cais or ao chose tu him that the pewder will - an win: a horse suce ingured in this way when neary alway be


- Thiv leson is repated several times. Whe the horse no longer $\because$. . hes materially, nor stougges ather a shot is firmb, the straps may i. removed and the drill continued; the tronper however, places .aelt in a position to hold the horne down ing:ase be attempts to $\therefore$ up.

The horses hatring bek instructed individually will be mate tw lic down on the skirminh line and areantomed to the tind 5 bey wey and at will．

A horse having been tharourhly tained th remain quict lyine down during thring，will fencrally be inditherent the the time umber other ciremostancer，provided he has not－utterad an ing ary from the fire－arm

5ig．After a stabbem horse has heon thewn－everal times it




 placed on each tront pastern withont ravine the tornt the free end beiner run theoush one of the rinse on the sureinsle．and then but
 another troper appoathes athl attempts take upthe mar tor foot．When the herse strikes．rears or phatere the towper in

 strapped up．Should the hores satul or rether where the whit may be used．
To Dikallime In ru, tury IIM,
 rear．plange or buck when the tromer is manntel．If thiveane the
 When the horse is refrachory，to hines him to his kithe．This sam． means may be used to dikephine horsex whith refuse th eary domble the trooper in rear holdines the straps
To Bherti the Ifarse of Kirkingl
 hind pastern；the free fod of eath is pased thrones the riner－wi ＂No． 3 ＂and fastened tothe bit rings．The howe is then made t． get up and every provochtion resortel to thmake himphiek．This i． continued untif he refued to mose his himd less．The method user in Par． 5 ：2 ${ }^{2}$ is Heful in this cornection．

575 ．Another method for diseiplining horses that halk，hack．ett is to whirl them．The trooper being on the near sill ot the hors takes hold of the halter shap or bridle reins with the left ham aboua one foot from the head，frawn the head around whe thett，panse th．
 finle wothe heforeral time mutil the hor


－buttorlk By his methol the wial ot the
 w－romilv exth
sati．Amother methon for throwing a hom for dinciplinary pur．
 Ght of the hores merk．arate the lett brame of the hit．pull the

















Pistal thring．etce．is

li,uts af Homes.


 a minute．
 ．．：1－in－－


 atht ．．Trot wat＂the mate is eisht miles ath hen
 ．．．ed tar imaridual imstrmetion

The muntrerint mation is at the rate of twalve miles an bour，
or one mile in fise minukes, or three hundred and fiff $y$ two yards a minute. The length of the stride is about ten teet.

The full or extended gaflop is at the rate of sixteen niles an hour
The chirge is at full siped, and is determined by thy -pewd of tha. slower horses.

To instruct in the maneuvering cadences. stakes a pre paced on the drilt ground, on a confenient line for a houg tack. and seventen and otre-thind yards apart. The troopes are required to march ovet the dpaces at the mate of obe per minute aceording as the gat is the walk. twot or a gallop

Instruction in each of the gats mant be practiced. ind vidually amd collectively, until each shatl khow whether he has the or catlence by the rhythmiof mution.

Horses may be trained to walk in column umber ta vorable enn ditions, four and one-quator miles an hour, making 120 otepa min. ute, the stride heing 1 a!s fard.

 being U.91t yard.

The areage trot of a horse is a mile in eight mintac. a.s mile
 ing 1.2 vards; the trot tor a column in route matehe is at the rate
 teen"eromls.

 of milet per loour.

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Analysis of (j,1its.
```

579. The walk is a gat of four distinct beats, bideh font meing planted in a regular order of sucersion: e, is., risht fore towt. lett


The trot has two distinct heats; the horse-prinis thom ont diasonally disposed pair of fept the the other pair ; betwern the stopatl the fert are in the air.

 so on. From the left fore-tiont the horen fore inte the fir whell all tering to the right hathe.

The gallop has four bdats, the requbar onder at suctosion beine.
 soon; from the lett fore foot the horere reme into the aif when ralloping to the right hand

## Summing IIorses and Fording.

i-ll. As it is often necessary for cavalry to cross streams by wimming the exereise is important for young horses, to give then - ntidemee

The horsen at first are equiped with the rat ering bridle and are $\therefore$ Ghout sadlles. The reinsare on the horses mek just in from of the sithers and knoted so that they will not hatig low enough to enwhe the howes forefeet care being taken to have them howe nerh to permit the herse to push his nose we fout athl to have en ar treedom of the head. The horse mond he watered before put "f him into the stream.
The troper monats, rides into the stream and when he gret-inte -...p water. drope the reins. seizes a lork of the mate with the up-- ram hamd aliow, Lix bonly to drift off quicile to the down-atram - fe ot the horee and flatsor swime flat on the watere suilltus the


 :acosary that the temper should the arente and deliberate. The troper must be catutioned that pulling on the reills is apt to pull is herse orer bativards. When the heree touk hes the bettom at the

 mas bexin to platse

The trowner may ato be repuired to swim holding the horse :.all allowine the hore to taw hitu.

After the troulne and horse have gathed contiflowe the trooper may be required to be seated on his hose while swimming. The
 The tromper shath hold the kine wedl up th leasen the resintane,


The troper will :able pration in swin ming the horse when
 The -line belt will be taken off the pervon lat attached to lhe carbe. which will the earried at askame cathipne:" the sling is lett
 - if water: the lume in suided by the hatha, fhe men are instructed
 ank.
s-1. When large, swift rivers are to bo wam, too hazardous ar all the hores to be ridden, the bridle reids are serured to avoid

other horse swimming close to him, the stirrups are erowed and se cared; a trained horse ikselected for a leader athl is didten withou a sadide: all the horse are led or drixen th the af andeh athl (an generally be made to take the water without mull ilfieuty. Th, appoach should be seleqted at some distatmer atome the lambines. I practicable a tew horses should be taken ower and pat at the lamd
 land.

It there be at pontoond hidere in the immediate vididity. the ero.es ing should lee leclow it.
 astern of the oars and on the down stream sifle or in

Exe. When a sircam with a treacherous leotom i stakes or brashex should be plated ao ar to mark the ford: or may be placed an as to mark the dangeront When the stream is to be forded at nierht lierlited lant pe
 there.

5x:3. When the stream has a witt corrent and the water is ablese the horses bellies, the sub-iivisiuns should crow with : wile at tront as practicable to permit atree fow or prevent dammind of the water
 objectionable in crossing a hamperous ford than a cohan of forme

Cavalry should sencrally cones steame above intantre or mat below that the water will hint be dammed arsainot them

 in column, the halter atrap of each horse is tied the the tai of the hores preceding. Those men who cannot swim are mount dantheir haras A trooper who can swim ia mounted on a lealur and he lath the tirn borse in the column with at lariat.

This method is hazarifos, and much depemt upun (the anolness and skill of the leading tipoper athd home


 with the effere of different methoms of treatment. dhature of diet.


 ply the tronp with remonds. Cavalry otticers shand tamiliarize themselves with the best methond of breaking and matinger lareses.

SEW DHLLL REGCLATMONS FOR C.1FALRY. 33
 m- athl methons of treatment ot the dixat- that are comment to
 $\therefore$ :





Sat Honers when remivel at lhe reximent. are animed to $\cdots$ -
 -


 - the raprain.



 -ath hav bero in the servier and his timestheretor: the particular






 -and divalle.
 -..inman of tropmen (wow.





I horer mast mever la kieked or struck alout the head with the 1.AM. rems or athe intrument whatore
 $\because$ ond condition of horme: the 9 should be mathed a tew miles when ad weather. maddy Ermand. ©te. prevents dith

Horses legs will be often hand rubhed. particularly after severe exercise. as this removef fulargements and relicestor preventa stiffuess.

In mild weather, the sheath will be wathed orea.fionally with warm water and castile soap, and then reased; in dold weather. when necessary, the sheath slould be wreased.

Horses used freely in snow and slush, camot with impunity be placed in a hot stable with littered stals.

The greatest pains will be taken in the fitting of the sadhles. sore backs are generally occasioned by neghect and the men must never be allowed to lounge or sit unevenly in their sadfles

## Sick Horwts.

5!an. In the absence of a veterinary sumetorn. the report are under charge of the stable sergeant. who be the eaptan for instructions as to their treatment.

In treatines siek horsek, it is to be obeervel that rey little med.
 deal of harm.

If a horse sustain an mijury, newhet his feed. mefurehis water, or give any evidence of illups. it will be at once mporter

So bowe on sick report will be taken trom the -t: ble or pieket


If there be at athe tine a stopicious diadare tron whe oe both nostrils of an animal, it pant he immeliately repmeded

To prevent contarion to mant or heant. ant animat any decided symptom ot erlanders is to be jablated at fined or tise up in wor hore wher un wher at proach him.
 in which he stool is tornd down athe all the wem worl the iron work disinfected. or otherwise it is chand. ath - emply until the rack. manger. and corery pat of the work, as also the ressels gused in waterins and teretines dle and bit, have heen thoe or four time thoromely. five per cents solution of sarbolie acid or a mat to 10 corrosive sublimate; all parts to which it hats leath apply
 onous salt. The appriedtion of a limewash wall the statls. atter complete disinfection. Wh be desirable. small artichet such as hitetc, can be disinterted beveping them immersed for a hat home it boiling water. . In attiche of little value hat hate hen urod with.

wankets, nose-bags, eurry-combs, brushes, ctcf.
stables ocrupied by infected or suspeeted Stathes occuped by infected or suspeeted porses should be disin-
:-rted daly by wathing exposed surfaces with a tive per cent, nolufon of carbolic acid. and nose-hags, hatters, buckets used tor drinkitig watere ete. slantal be carefully washed with the same solution or sith boiline water.

General Dirutions jur shamene, Horses
Ba1. In preparine the horses font for the showe do mot wath the tacg oble or hars with the kitite. In remoding surplus growth of ihat part of the foot which is the sedt of the whoe cuse the cutting

 S. the athele of the wall at the herel must motbe allowed. The rasp tay be used upon thi part of the foet when feressary and the same aplies to the pers. Socutting with a kniti is permitterl the rasp


 : felle of the boot elear aromat to the beek the lacels ef the shoe :hould mot be extemben hack st matht ami matide of the walls at the
 that the shee is lut tittel two smatl, the oute o




 tane should he nesel

S: Hablatly in ramions at the disertion of the colonel or
 lithed and bept realy to be prat on the homes
 1... herex; heme the importance and womomy of -pations, cheath, dry
 lah. wih latere whthathe through her root
 $\therefore$ It frsoble. the builditer should hase up upper story or lott. Droble stalls should mot be less than four feet six inches by nine
 - ach horse in the stable.

In stables with a lott rentilation from the top is alway insuth cient, and there mast be pide openines well above the furses. wh that
 be closed except on the whalward side, to keep rut the rain or stww

If the stable is partitipoul oft into sinele -talls. cals -tall shand be five feet in with to purmit the horse whe down withot dittiontty

A pieket line is estabished in the immerlate vifinty ot ead troop stable, the homes beins tien wa hemp we wing repe or thath



 Constant attention mas be paid tomaintaininas the eroumy atout the picket line in seom oremer

594. The followine fromeal rube are remomandel

 the fionage and stable preperty aremeralls
 and well lime-wathed bott care mut be taken that monertion of the stall- which the horse ean reath be wancol. a- the ling. will bake oft


 clean. The arouml atobut the picket line is swopt dung. ete., carried to the manare heap.

 accumalates.
 protected with sheet-imp or other metal should he palntel with han fats tar to prevent its beforsmawed. The same prequmion may he
 whould be thoroughly difed belore puttine lamen neat it

Smoking in stables. ar in their immediate vicinits. is prohibited
One or more lamps will be hang in earh stable 中o burn durine the night.

The horses are stallyatarding to their positions in the their places at the pieket line will be in accordance with the same rule.

The name of each hored and that of his rider are phaced wershis $\because a l l$.
 . nt:ly carth. i- mot - uitable.
 - :


 - tall.


















 - pp durilis rerg cold weather in high latifulem

$$
\begin{gathered}
\text { St, Ihe Inty. } \\
* \quad \vdots \\
\text { Route' Murches. }
\end{gathered}
$$

-CHOOL OF THE TBONT.
616. The manarement of the troop and ite effectivenes, are de-
 $\therefore$ ip amd immediate control of the mon-emm-wioned otficers who are ind rexponsible tor the diaciplite and ondeg in camp and quarters, ard are trained as leaders of groups fire batte

The objects of the sepool of the Troopare to contirn the trooper in the previons drills. to prepare the trow to act independenty and to take part in the drills and maneuvers of the suadron:
617. When troops are small. two or more may ofabionally be united for drill. The tronp thas formed is drilled be one ot the captains. The lientenants gommand the platoonsamd the pergeants and corporals are pested accodrding to rank. One objeet of thas uniting tronps is torive officers operience in hatming a trong of neanly the legal maximum, or war drengeth.

61s. Morements are first taurht at the walk. that the mechanism of the movements may be thoromgly umberochl: habitually thereafter the movementy will be at the two Ther fill not heredered so as to succeed eagh other tow rapidy: that is. phe movement must be completed befor another is ordemed.

61!. Maunted drills will be frequently combeten without sats. dless or blankets, also with the sadhles patcked.
600. The captain may require the chicfe of platolns io repeat such commands as are to be immediately executed by heir platoons. In gatcessive movement, each chicf will be particular to give his conmands at the proper fime and place
621. During the exedution of a successive movemephe the captain may reduce the gait or cemmand helt, at any time; only those units of formation which have fompleted the movement redpee the gatit or balt; the others execute the movement at the original gat. buring instruction, for the purpose of correcting errors. the instructor may command: 1. In plice, 2 . Hant; all the officere the-closeres and troopers halt at once and rematin in place.

To resume the movencut, the instructor commands: 1. Triop. 2. March, and the movernent is then completed.
 tical instraction of bis ofticers and non-comminione offieres. He requires them to study af recite these rerulations withat thery an explain thoroughly every mosement before it is put ifto examion.
sergeants should tee oapable of drillins the phators: the heo tenamts will frequently dill the tromp umber the surerintembene of the captain.

## Formation of the Tromp.

623.     - The troop is forpued in single rank and is div. $\operatorname{le}$ el inte two, three or feur platoons, afordiner to its strensth; the division is so made that the phatoons may be of nearly equal strengrth Habitually the platoons should consift of not less than four nor frore than six sets of fours.

## NEW DRILL REGC゙D.1JINS

OR C.Al'ALRY
When the rank is composed of less that twenty-four trongers the fivision into phatems may be omitted.

In whaterer direction the trow faces. t mom the right when in line and from the

tiet. When the platom is compmend of tharor moresetsit times, it



 the other fours: in the absence or the asonged argat leadere one of :hese is designated to take his phase

The squals while in the rank with the trond are designated as
 wher or detached each equad is dexignater hy the natme of the mon-
 or rorpural, ———anal.
big. The captan may radure the troplo to be formed on that
 te in consecutive order; thi arrangement finto suads may be mado arordine to size, so that when the troop, formed the tallest men may be in the center amh the shortent on the fimks.

*i2t. The cuptain is six sards in fromt A, instructor ha sees wherever his presen

When the tromp is diviled into two pl commands. atol is two vards in frome of the
 Whe center of the secomi platemen.

The firat artertht in two gark in the reqr if the serond four from :heriatit: the …

 - hatred with the duties of the dheme
 Matomse in the abseloce of ofticers. are comanded by the senior wreams. in the order of rank: when the fere three platoms. the hief of the cember phatoon is two yarls in frent of the risht or the Wefour of his patwon. When there are four platemen, the chiefs of Blatoonsare two yarls in tront of the centers of their platoons.

One sergeant carries the ernidoniz and is fosied fon the right ot the tronp; he is mot eoupted in the rank.
 placed liy the next in rank or arade.

When the trumpererf are not united in the suadion, whe trum-
 yard to the rear of the qutains horse.

The other trampertet is in the line ot file elowert in reate of the second dour, to the left oft the risht primeipal winde.

$$
T, I \because, r m \quad t \text {, Tr, Th. }
$$

 men then salllle patck, briblle abl monnt with the nemont relerity
 ignaterl.

 minutes. liy the :somber.

 and tariner it. and comnondads: Find. is.



 sist in the formation anfle talie their posts.
'The tirst sergeant betige the tronp to therierlit shbulder. he him-


 lance the in narthinus.

The butt of the lance rests $\left\{\begin{array}{c}\text { Pastion of arier finitug. }\end{array}\right.$


parale rest is cxament and



 theleff fout of the horas.






























 - in....


 - IRNに.





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A:34. The captain chases the trong to
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bici9. To thir front. the captain commands: of fiours. シ. М.
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693. As a rule when the troop is actitig alobe id chareme the enemy, it is divided int two or three parts, viz: infuthe emention, line and support; or atthoting line. support and rew ret. when the trow is of nearly full strength











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## TIIE：（ondoNEL


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## OB.JECT M. MRKING FOR ARTIIIEER

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## IISCUSSION ANI CRITDCISM

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## THE HELIOABLDPII









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 - Bight. When their services are requimal. Ife lhing may he over.

ing: but at the same time a maximmm amonnt of work i worth and contentment of buth the otficors and soldiers.

But an hour of drill, requring eonstant attention is rary lifferent from an hour of lathor. when the movements ame anderal free amb


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 at it. just as men must be jantrueted torether in the mern, in lime or colnmo. at quick or shonble time?

Much is satil about lackof time fur pistol tiriner. ant abont the impossibility of obtaining eford results where the mumbe of detaile.j
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First of all. it must be ecoepted as a fact. that detaiked man atre
 duty. Of consere there are koine that vanot be reached at all times.
 work performed.

There was a day when the craze witater practide pervaled mont of our troops of cavalry, day atter day trom mon till birft Fet it was not the full cakalryman's duty they were kearnivé it was simply making riflemeq of the men, by ímoring the elueation of the horses. What this shows is that there is time empugh for pis tol firing. if we go at it in whole souled manner.

It is a little absurd to talk about want of time when there are su many hours in the day that are not used. How mapy hours ol drill have we in the averug garrison? IIow much timp in the fall and winter is wasted becauke it is not in the "drill season?" IINW do our drill hours compare with thove of the Europea soldier. ar with the bours of tbe labprer" How often do we go into winter quarters to hibernate till spring, as soon as the anmual inspection iorer?

The question ought to be, not how to gret the time but how tw ' make the best use of what we have. On this there will be a varioty of opinions, but there are dertain ways of wot doing it. hat all may agree upon. These are sudh as beginning work where aqother troop has arrived after monthe of training: going through tle work in a perfunctory manner, wher by the instructor's lack of eythaniasm $i$ communicated to the men; encouraring the mon to tink it is ati wrong because it involves \& element of danger.

With a -hort tarict seamon the primeipal dithentey will be to train


Murh ot this rath be efferted while wher whe is groing on. The






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 -. hhink of that his usins a satheresen it the battery should charge.
 at axle seat or chent. Wh that it is mow a tanhid in or only drivers to "rar the sather and then only at inspertions. Whe thing to do is to sive us the rewolver and make as learn to wis it

CHARLES D. PARKHURT,
Firad lieq femunt, Fourth Artillery.

## BOOK NOTICES ANI) EXCHANOHF



We are apt to measure the excellence of town and the tornoof war be the lists of kille amd womden, withont tal ins prope consideration of the numeron other circumstance that - oult.omm The writer frequently warnk us that this is the cane, and he sfivemany brief explanations of erents, in a way that adde ghealy th the interest and value of his work. He gives mot only the resimentai losses in many varieties of form, but a great mass of other statinto most attractively arranged, so that we are apt to maphe ouront:reading of the startling chalnges of battles themedves, father that a book of statistics. The y riter goes hy the official reford alone. and here. perhaps, he might have done better in some cates, be con sulting regimental histories which have been published sipee the war. with nominal lists of killed and wounded, and which. with wers allowance for prejudice ought to be more conrect than the return made at the time. But whatever criticisms are made. they must be slight indeed, when compafed with the value of the eptire wow Colonel Fox has rendered a rervice to the militaly sthent, an wel as to every A merican, by his laborious undertakine. It buat he hat a race is made better by a war which could call forth fuch a mar nificent record of manhood as this. Such examples as are here -hown are needed from time to time, to show that decay of patrotism is fat off, that our countrymen ate not entirely absorbed in the purvit of gain, amil that the dream of a universal peace is not altomether hean tiful.

Althnagh there were 10596 catvalry, killed or died of vommets. the losses of that arm are by of means startling, when conparen winh those of the infantry. From the nature of the arm and the chamac ter of the conntry, the former was not used an an attackigg or delas ing fore , in the derperate si uations that intantry fonde trequenty It also happens that a cavalry charge, hy its limited arda and bric: time, will not compare in the aggregate of its casaalti- with the steady loses of an infantry dommand, extending throush nang hoarover changing scenes. It gas thas that numerous brillifut cavaly: charges, pushed home though they were, against hopeless phts of num bers, have failed to be of resord in a book which in devoted to the fal lant deeds of our soldiers.
the arduous mature of this service. While the insew of intantry and etillery were divided among a comparatively fed hathes the cavalry "as in a constant shirmish; almost might we tighting mght and day. The First Vermont a $a$ tive engagements in ishich it sutfered a loss of wombled. and as many more in which it sustain an prisoners, while the time when member andire death and capture cannot beentimated. aly that they were alivy reords furty illed and mortally a low of wounded
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 of the soldier, and Particularly of the Trooper. Milatay (x)late




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The [inted serviof
December 1sq9. The Ecolution of the Torpedo Boat. One View if the Army question. The C .s. Revenue Cuqerservice. The An amal Inspection of the National Guard by Arpy Officers. Jamary - ? ! I : Our Coast Detences Modern Naval Fiduquon. Individual Dis.
cipline of the Sational Guadoman. Some Cavalry Leaders. Febru ary 1890: Some Glances : the Wars of Tomorrow. Oqu Coast De fences. Fotes on Nationat Guard Staff Duty. Operatoms Before. and the Fall of Allanta. March 1s!o: The Indian has a Soldier Sational Guard stat Duty. Great Commanders of Mdern Times Battle of Thompson's stalion and Trial of the Spies at Eramklin Temb. The Trials of Statif Officers.
 Vol. XII. January $1=00$.
Penmevania and the Derlaration of Independencef Autobing raphy of Robert Proud, the llistorian. Gowemor Pownells Reamonfor Derlining the Govermment of Pemsilvania. Lise Lettere o: William Penn to John Aubres.

Hedeos: Army and Nafy Lat. December Lwa. danuary and February 1890.

JOURNAL



No.












 Viatmerer may hate bern the realt of er-h eparate skirmish,



 -t prowertal of the fromen along our troptior. Numerially inine to the contederation ot the llakntas, llay were their acknowlEed superiorsin painserall and the s.jene of hagh cavalry fight $\therefore$ The Surthern Chegennes. inturmarryip with the lbrules and

Ogallallas. had taken to the warpath as their allies at the very ... break of the campaign. The southern therennes. on the contrary hat no vestige of excuse fint their part in the war, and with the exap
 at the start what might be called an attitule of armen beutatit. Oddly enough. however, af many as sis or vight humbly of then
 ently wating to see $\cdot$ whidh way the cat wonld jump.
 had taken the beld againgt the hostile tribes now knopro whe an sembled in strong force along the mortheastern shery of the bit
 other acknowlenged chich to lead theme ami hatt sheren ind ham
 at least fur or five thomsand tighting men lay unconily fath hilus the

 upon their chosen sroumath.



 that communication inetween (rown ant hiv acociat alotis the
 were and abundantly suphlied with arms and ammuntition. prome and provisions, it neemed that with every day they rodived acosions from the reservations along the White river, two findred an fifty miles to the southeatsit.

General simermas had reasom to helieve that a binat well its fined trail led from these reserations aters the vallegen Hat drath and the South Chereme. thence morth-wesward in the direetion e:


 meantime ordered eight theops of the Fith catalry. then sorvine it Kansas, to move by rail to Chegenne and there await proters.

Very possibly the inspectors telegraphic repert wian in -and : | ebaracter as to make our hivision commamer determine on an in mediate personal risit to the seene. At all events. the themer. relarn ing, had an opportunty of looking at the resiment as if hroke rame at Chegenne on the lithot Jume, and the latter drefe inter For Laramie just after we pitefed our tents along the flats h flow the fur:










Gur orders it erems. were o. the eftert that we hould remain







 Wew that the white ondiers were anter the hite tata and all the






 rubtions of which we klow mothins It was widelt. beworer,





 Elit of the 11th. where tor tall batk to Fom lamamice ath the word


 - head water ot the Xinhamat. athl the hext might were -heltered Wer the lee at friendly ohd Raw Mille But.

 $\because$ mind than they are to- has

We were now just one hor days mareh from Fort $L$ aramir．amb conticlently expected to mate it on the tollowing lay．It revalle on the $1+$ th，howevere a rume ran throurh the camp that di－pathen had been received during the night imbieating that there was a wam outhreak among the lmbans at the reservation．Of enmer we kimen that ther would be vastly edeited and enownaged he the butellireme of the Cester massacre tifthermore it was well kownt that there were nearly a thousand of those chevenmes whe an we remainen
 were eager for a pretext ond which to jump．：and mw thor might he experten to leare in a lody at any moment and take to the warpath


 the mines－a sight tow temptitg to Indian ever

 and sablles＂sombled and we role intw line．we saw our ter gruiding his wagols bagk over the ridge we hat eron betore and in a tew mindes we were followins in 1 Straight to the east we madehed that momine down the at nown were halted whery the rad annumetine fort 1. the reservaton rowned hatwhide croek．If ere（：aptain
 five milas mearer the Indian villater．whike the indetatitathe Mation




 with his new resiment．It impelled him to atmereat

 tion of the Licmenant－（icheral，ahthorsh it mas hate． wook in fanaly reaching（Rome at the Bis Hown．The
 dred cherente warrow mond heave the reacmation morninse fully equpped tent the warpath．and with the at timn of joining the hostiles in the Big Hom connter ou his mareh to Laramie and let themg gro，would hate wergleet：to follow by the plisect road to the reareatio miles away the thertheat．Would have hern simply 1 ． ont and hasten their movengons．Manifenty ther wa－ tol be done：to throw himsta ateon their path ath catit them back：and to do this he must practically mate hove three sib． of a puadriateral．while the were travering the tourt and mu－ do it undiseovered．It the colonel hesitated tellminutes fin mant in
 wagon train．and ordering qur quartermanter．Hat．．© © \＆trh up with us at night，the colonel and reven companice witur inte
ill．．．．hal han－ho．．．t hatcoman ．．．．i the •las （ir tracti－ 1reathe alla ramie wit lban with ：all．M：



 －1．．1．1 ： 11.1 14．： $11 \times 10$ оиmemla －1ayc．al 11 ： Wromatio．． －isht han いい sumb！ wol inten （1）соитын． hocn ．ixty fil． －lrive th．． Tine thin aren ariv． arluce，ath

It ate webek are mar hine phthe hawhit
 Indian－may hatse han in view．We halt
 ：mmitus－tcam．romomat and．following



 therefive milan he the wat we rame hot ath we had twhiner hat the hontalo eram






 －imbins nut of the valley t．ther moth














 －r：arh it．

 Glate in：amone the timber．It nime Ho－





 haty hat may orour Sut a wher hath．





all firmathe mentra．
 horit halt har under aty homen in the rhatr r－hiet le：al away mow HE－flatio th the north． valley ot the Niobmata malar the tall himtho ot at＇ardimal’：chair．only ㅎ․․a．mant rat tulive． atio．theoll．Wi．poot prior．athl－rattor inar －all they ratr rajtain ：an and preket tion the It midnight Rani ：ar－ ＂in ther tar light the
 1 at tive remok weare
 Tlu． 1 ©homel－－wift．
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 －the－putine at the hatal 1 how－take a hurried


 In lat the and risht ：and
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 ＂lithe platean aromal

 ＂1 hair mont rady and



 OII in the．darkinco．anil where leat they ran ob． －a away willant abarm $\therefore$ arow－hilly ：and the
repping of the coyotes out pree the prairie i- inemant. are to call the Colonel at half part there and makime me

My.udur

 somheras.

Outhand arainat the fouthern oky is a hish rillur




$\because$ it i- la...


 drawn and wan in the eold licht. We are hamillo. alom













 the right I can mark the tal lawn whirh werathe the ni





 mimute athl twomila aw:

 ont of view. At tive ollo.
 morement pazale us: we for mot helieve they hatw sen us: ha:




 side us and level their alan-


 tive the mestery is solved.
four milen away to the vath hant pand
fond
-ht tromt the white aner- of army wann -hal view. It mat be our imbetatimable aill. athl he has heon marehines all night tor $\because$ tworompanicot intantere but here are in

 -annine into -ixht tar aver the reiling prai
 as - math tom ther ravation and home



 - - ind.
 w. eriter



 Elt. Where it in rew.ed lis the werg trat


 .. - .
 whtame a pary of tharty or the ladian atw and rxital mution
 Gath Ridins lowath as tat ahat of th





 ar muriow dhly a mile and a halt up

 wry mat down wht the hill ath inse -all Sreptim-ath ottioer is lett at thar erat to ©e the word when the party - tomald make

Oh. What a -tirring pioture tho. In -. tix wir size "pent them. savase w "antitul than in thene. ${ }^{\prime \prime}$, they come bringilse down the windiles ravime: the railine war-homet and vilur armber. nerek


lraak ulum onr astomaratermbater with our achus. He is gratarded inible. He had towed ly atrail that the Inthe white aswer-wome $\therefore$ and he this that the Thers are maly a
 - unzuathen. S., won.
 halt ath hour they! allwtor: and hath train
, Whe twrent that in the - ravine limeth ahoot


 are al it-juint. whil. 1ls. Thi. trail canmot the trat while we. © : ravin... a mil. ani: are whreinw alamt in
… it - andenly hommer
 - li-p:athlu- l. the ....m. "H hare in the twitem

 ambily allay
Only a mile away coma ravibe: a marlerna int. tall wallope athl he Collow hat indered - -very man with ame ratch the alvatme. athe it-la- 1 .
an make, an once more rare wat mexer more -ir swith arile jomion isings sun ghaminer on ce.s.rat : on brillama. o.d hols and hamelle. veme lamer and rithe.
pennon and feather glistening in the morning light：the rifle： swaying in the widd grace ot the ir perbes homemamhin Now till we can mark the very ornament upm their leater－whid．An so．on too．come their heppless prey．We hald rengeater in on



 applaudingly wathing the exploit：hut tive hambed yard ：ahea． of them．coolly awating their cominge are their manen the beathe them at their very game．Neater and nearer．their leander．ator


 that point with their war－whop ringitur ith their cars．Twh handr．．． yards－we can hear the patithe of their wiry thens．Whe hambe． and titty－ten seconds mon－and they are an then．Ther．erant：－


 warning eries．Their hader，cool an at cumbler．wher－and orma
 old time scout．has tumblet a warrow trom his ponse anf hath la dian and steed are stretelpel upon the turt ghererite in the deat




 line of • $K$＇troop shoot－up over the ridse ath in their rialit ras
 ing into line out on the led Hank，and in lew time than thalow 1. tefl it，the seven troops ape sweepilus up the home hily ware． prairie，whirling the che y mane hetme them．

What a chase it was！What a elorious spurt comentanty wit




 ration sateks，rohes and all manner of ．．impurimenta＂中rollo．： the Indian tlight：the cloudikhadows－werpithe over the way－l．．．．．． the radiant sumbine temprins the ehill ot the moninu baze ath
 finally the egathering at th．river．ar we stop for herath and wat． our horses at Indiath creek．

All the livelong morninf．all the summer athermentore vition press their way steallity hepting betore them the rellewade hatk 1.

THE：NTHRY OF ． 1 M． 1 （TH．



 －a in the hurried Hisht．




 －．．いい talic．






 ．．．s．athe the satme deliherate mosement into flumn：the hriet hatt



 ？Inatur




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 －aniation．
 TRAISIN(; OF THE (:AVALIM SOLIDRRR.






 عision and aceoract: of merement of the entire remmand.











 ridinge sthool.

It is too frequently the case that recruit ase redulred tur tio servier before they have bewn tatught the tirst pribriphen of rilit * Although men may have been thoroughly invimeded. exerejo int riding sthool is equally at neressary tor the ohd whiter. buriner long winters of the west, both trooper and horevere whe ot pratio
 who hate torgoten, or who promsely diverami their presionstructions: borses ate also out ot eondition. and more on lews umm: ageable. all from want of properextreise atml hamblitus phese hete.


$1: 1$




 sember.





 - toup











 $-!$





 _ Which wonl| :
 ?








During my experieng in the atralry. -rvitu at parinu fun. the only systematic and effective arranement ot ridind shenols. tracks I have uver seen was that put in "promion at fort cound


 their favor; cach troop ronstructs its own hatl he hathiner manur
 the requlation size Afher the whbankment is built it van he - -


 structed. While this sptem will mot 1uw :all the rembitements. the service at posts sifuated in lomation where her wintom an
 pmots. and the brief dexaption of con-tration sise atome is is
 put in operation.

tha.. "avait
 natural homemen who are benught up with the horect and ate :

 peophe only ferl truly at home when antride a horove How nathe




 oernrence in filure wats: but the will andombent be eaval charges, when the indiviflatity ot the trenper will he homath, phay and when his ahitage to contor the meveroment ot hiv la..




 bit. roins and lese in chatrolline and dimetine the motion- יt
 mounted. (an a man pifk this up at momp herataliondrill! I




 the bew drill resulatinar for the catalry if heroted bit. It is




 Fent that the oftion -hall wom in the mathement of hi-home A in the ane of hivatme








 - Eicen in the ridine ablool:













 sha and hathle them well and it we hat the riding halls, this



 .ay
will not fail him for instruction purposes or when it fome- th the march or to the tight.

In addition to the purdy military argument- which mat be and vanced in tavor of the riding hall, it can atow be recommende. a recreation for the garrison. Pleasure riding at mavalry ponsts in mum imlulged in, and is of great bemetit to all who participele in it. Iom ing the winter we are shat off from this. and on acopant of cithe bad weather or bal roads must keep ourselven and ohl horser dhe $^{\text {b }}$ "H. Were the riding had avaiable we womblaty that an "If". tunity to exercive ourselv fo and nur horses on a sate and momtiortal, track, and, the hour for receation purposes heing desifnated. and take our lady triends to cepoy this exhile ratines diveridn.
 cially to compel thoroughthess in the individual inmetretion of th trooper, inspectors of carelty are recommenden. Hew many ot th inspectors or acting Inspetors Gemeral in Inpartmento are calcalr:
 alry post generally forms his opinino ot the impmetin of the cat alry from the precision of their movement- at hattalif, Ifrill an their ability to make a chure without all the hereos raminer aw: the finer points of equitation ceape his oherervation. . (atratromat wonld call for more exhifition ot individual heremanh-hip ahd. course, fore the necessary dmount of trop and hattalion drill. whi show more the instruction of the ofticers that it the men

Perfection in horsemanship is required: it can bedobtainent $b$ the construction of riding halls, and the entioreed in-therime it th treoper in the riding seholil. Let every one in anthorits and the.. who are interested in the weltare of the eavalry arm. panite in ar. ing that the only item wating to make our wavalry viperior tw an other in the world be give (10 us,-the riditur hall.
R. P. Patil: Waswhatht.


## 


I quite agree with lieutenant Wanwruatt in mearly all he hat

 ralry otticer in our service.
Twentrone veam arn an Emelishman-whoramenty knew
 S butioe that very few of sour men ride alike pr have her same stat the sadfle: in war serviee they are all mon the ride in the same









 faculty ot - atickine to hia horse" well under fomtmen ver trying
 wrally without -peral ingury th hinhore fut to.. treplently he
 arhing the that of the cowher is not rave. whe int the cohmon of a



 1. Lieutenant Waswatile hat printed an what the extent of - invtruction ha- heen.

The -ugeretion that the tronper mare harn for ride at hattaion



 $\because$ will be led to look al these little matter pof detal themedere.
 bish ratuk and hong rervier - that the heot way to teath a remernit
 in a mareh arrose the continent. It in whe dat the early instruce
tion of some of our best men. and most competent mon-c.ammissinh, officers was mainly acouired by thinkind of prartiof : hat bey leatom. from a natural aptitude and inteligence. and in phite oinnfavoral comditions rather than with the assistance of a regulat abd fumba mental sysiem of instruction. Then too, among these ar oftenthat. the irregular, or anuniform riders-an to seatio-to whom reterean has alreaty heren made. At this time even this "hanme ot learnit -
 marches. I do not wish to er misunderstoon as to the inpurtance .. the instruction which comps trom the kimb it servier shentionedwhich is iuraluable in the education ot the trapere-but thas

 show and tedious means lywhich an intelligem mothier may piek py a great deat, when he realizes the neewsity tor it, and mas loarn b,
 mitting this detective instruction as being quite the rabl. Wharedo.
 this direction. or to a want ot proper appreeration of the mantor


 ability of retaininer the salger and piotol as a part of the atron- wit cavalry trooper. Are we prepared to athswar this thorion mo
 a part of the attention and eherory ot the tronger abingrod in t manatgement of his hotse sath it be expereded that he will hecontu a "Spert in the use of either fit these weatmons?
 all he has satid." While I pomit thealvisability per-unal illavt

 hall, and can even admit te absolute neressity torit. there is a lin to all things. "It is hate to teath an old dors mew riffis." or
 men, they have not been in the practice ot older otficer-ment West Point, if I have beet correctly intirmed. I will venture t suggestion that such perso nal "illustrations" on the part ot -rome our old captains would be pf questionable asonstance in the insir. tion of recruits.
:urst Lientemant s. ('. Robektans, First Cavalry.
The becturers article hats dealt with the , 中ain pointe of reform
 art. I would add that like him. I herbeve the ridine hall to he a

 - ha darine at least fiar valuable monthe-trom the milde of So. mbere say. whe midhe of Marelh. In sonfhern conntries. it is


 - refinement- of the hish selow of ridine of in the various oxar


 anateable horser. now saldhed and momaterl at the pieket lime. with thite datuser to the lite of the riane trom the promere of the other






 imbividual drill. The tan hatk or sawehn Howriter of the hall




 il in such a -pur a very dismal athl mexerible atfair. Men are



 the cherevant and critical eves of hiv comrander or ofticers-and - in what he would he in the riding hall. It pronh beeome a place haily rembezrous, Officere mot on drill wopld oftem oceupy the Leries. with which nulh halleshouldalway be provided and would : acquire a very aceurate idea of the intiodual skill of the re a-ortroperoot theirownamil other commatils. The men would

under the watchful eyes of those ontade critics. Officer- inemselves -if not those to whom Capan Crinas jocularly refers an wold has the future instruction of oun cavalry hepemb-would vi\& with auth other and, outside of arill, 中ould get incalculable benett trom the daily riding they would do for sport, or "just to keep theip hand in. Discussion as to relative anefits as horsemen wouli be stantedin sar. rison in the case of both offic resand men. It is afo to may that the ime. pulse given in this way to pling would astonion the arroy in it- re sults quite as much as did ted years ago the orders that di. a way with our absurdly inetheient syst on of target pratice and male us by he. grees the fillest army of mapksmen the world ever saw.

I woald not by any mehns alrocate doine away wht the oul side riding sehools and using the hall exchavively for modididal heill On the contrary, I whould consider the outer track- as now import ant anxiliaries to the indon drills, and I would add tw them at erey cavalry post one or more short steeple courses. These shath he bitw
 or sis obstacles, incluling logs, a hedere of dry bru-h, a titeh an: set of woolen bars

After the recruit or andial is properly trathed to leat the harib. and bar in the riding hall, quch amusement and protital he instur
 The art of riling should be furronaded with all such fat ures whin. can make it to the military han, whether otherer ondie. attrativ and interesting.

The recruit in our servfe now has but the ment pigitul athlit. adequate amonnt of indivilhal drill, the reamons the whith are vers aptly tonched on in Licutenomt Wanwrights paper. De is afther ally drilled by non-commistoned otticers who even it they are , w. by careful schooling. but by long experience in the servere atol -it: the) grod practical riders themselves. are unceran in the mothol. teaching real horsemanshio. Recruits come as Licutequmt Wiss whigut says, by small detaghents, twos, threes, tours-font enowt to torm a respectathe squad worthy the constant attentinfo of an wit cer of the troop. They art told off to a sergeant or ceproral wh. carries them along in a leffunctory manner tor a wech or so unt the next snow falls or a new lateh of recruits arrives. When it, spring is late and encroach of upon the target season. "hey are put. force considered old soldiefs as to horsemanship and 申in more it. dividual instruction do the get. perhaps. before eoing dn campatis or into troop or battalion prill. Cuite these recruits if the ridia
 ants. and it the fint or battalion commanders whow woll umber surh
 . rery different matter.

1 would say here that in such faropan quabry a I have expe
 athe indivilaal traininer of the tromper moneted that in whadron


 arving the protres of even the insigniticant recruit. Fable in his

 are erenerally in the ridiner hall, haly for a pin around the tack: wh the lientenants be the natare ot their quties are kep almost












 serpise ill the sald.lle



 - Ther unto themselves in justitication of the -mall attention paid - We monted reruit an compared with that of ven his Europan fel. a. . Imerican- are matural horemen." the otticer- *ay. "and "t need the instrution fiven the salnterdat French peasant or "stolid Duteh brewery hand: "ur men riak inatimetively". It at I have often heard semtiment-similat to these expersed. There
 - i. the weat and somth. the propurtion of hotes to the proplation $\therefore$ "ur countre is emaller than in some of the langer nations of Europe,
and rialing is, therefore by po means. a common recmation or mole. of travel in the most popatatel parts of our lathl: and when we

 we can see how idle is any talk about the . inhurent" hupermanhip. of American cavalrymen.
 means-the only means-of arrogating to ourecher superior hil: in this necessary cavalry acumplinment. Lect every putat whita
 struction mandatory and sufticient for the purpowe. as Li-nternall W. adrocates and as I hare adrowated in a prowlitur paper: and let time-one year, say-show the effects. 1 atm stan thic hrambla of the cavalry Asociation fav taken up this question. If aticur elsewhere would do likewion and alrocate it in an equest way through the Jorrana it would intallibly acomplioh out and. W: have a military administration in Wishingron mow wilfins wat. ear to whatever is groed and praction amh in bringine for wi-he. and needs to attration. I whald assert. without any wifh to tan th life disenssion as to the mprits or semerits of and oht friond do. saber, that in these days of peate e. the pen is mightiet that the sworl!."

## 15








 mil that when they matertake it they ern ratly tait. I ernerat.



 - Higence and will-pwer He aty:




 -rvice.
 - Whomihility ot ewor triat- than in time pt war. the worth of an



 -"per have been unwartantalty have.


 Europe hate furmiand better gromal for the whth of the frinciple


Wre may read bur eve out and herout erery bork and word anded on the art of war, and we may be dommanded by most ac-

AMERICAN PRACTICE ANI FOREIGN THEORI.
complished generals, studer ts of the military art : and still it whate. spent our time only in theoprizing and are not oflowwise prepared to. real hard knocks, we will have simply wastel our timp: occasion will surely find us larking the essential chararteristies of malry

It is not the intention to attack all thenry an anch. tw riticiecth. military stulent at his legiqimate work. or to set ul stulorn intur. ance arainst intelligence; fll men recognize intelligence tis -upreme. but to cham reengnition it must be nathat, original, an mot artiticial. Artiticial military intelligence is that which induck a linci.... atter readins Jomani. Hamper and Suaw. to herome a milidary writer.
 telligence not being the ghide.

I believe I voice the opinion of many members of fin. A.....ita. tion when I say we are di.posed to contest some of the propuitionadsanced concerning our orm of the service be men whot have meter
 action as agathst ritte bullets. Where any writer deemphimelt an athority on the action of all three arms of the service there maty hat question as to the reliabilify of his information. tor it mut le. acond hand; and any cavalry offter can be mueh more protitably
 mon sense, or not having practical experience tor its bake.
 Infantry and Catalry Sellow, should be Intatery schond only
 ently unter all cireumatanfo. whe ther in attack or letenfor in mot.e. or at rest." This is Colongel Suaw's idea of one ot the arms of the service, and it goes far to prove that he could mon hare hat the er perione necessary to quality him as an anthority worth motio. an any tyro knows that an futantre command on the map eh anded :. easily surrounded by a boly of utarmed howemenand sarvent wh
 theory. The fact is, neither arm of the servioe can chem to ber tirely independent. We all work best when wo work hather.

The rule is tor catatrytu precele the mareh of any foluma whe: ath ellemy is to be looked for This eremeral rule will fort aimit. ath exception. and precluder the suphosition of the ind fremberne. .: either of the wher arims.

 taking a course in Hasm, frind the tollowint intormation an paze
*нии. р. 13.

AMERIC.N PRACTICE ANH FOIELGN THEORV:
 atferted the actionsot infanter and artillery beloce has done mothing
 a cavaly leader or a budy of horsumen who comble clam any sumeri--rity orer semblte and his splemdid muadrons.

 ition tw that we propmse now th stay and fitht: and. in this imper. :ant addition to our edticienges seience hat done more for the that
 $\therefore$ either of the other arms. Xin impreven .nt can be male in tire
 wharked is hat me military writernt here daysuems to he able to













 $\because$ pick up a wext bow and learn from it hat imprevements have


The following orter was i-ment the forth fatalry bivivan









 the direetion of sulz. The Bepohardi anoce Brigale and the

Second Body Guard Ifusars went on aheal to mak．the rempa noissance，the former along the Hagenatu roal with a－qualden or Hussars as adranced guand，another suadron of the same on the let and the two remaning sq atadronson the risht．Heve is an in－tam． of a whole hrigade of modented men heing sent on a reqummivann． and not being properly atmed are under the nowsity ft hotas－at roumled by squadrons of another organazation timporiftion．Huw． is the report of the resultot the axpelition
－So indications of the enemy wore fomblhis site ot he Itarenar



 fire from the Huswas（apines mate no imporion． posible tor the lancers to depher in the tomen．dhe brisalhe witherw
 upon it from both sides of the mand．

This division bivonate Fed that hitht wher woth between the First Bavatian and the Eleventl Srm
 Hagenau and Reischoffen were－till intat and in the hathlo of th



 perhaps san the enemy：pat wot heing propared whyld men in th． woods，withitew．

See now what happeny wa divisan commamere in almost a parallel case．The sewoud davalry Division Potome Potomate fown sabers ath a light battery war oremen then mane through culpepper．Vat．．fo the Rapdath river．with intruetion－ attack．rout．or destroy ：Rebel amalry fore under acmeral Fil Lees and to break up the railroal－in that virinity Thiv tar
 Rapilan．meeting no ene fly deservine the name and remod to：：

 commanting officer of this division was at one reliced tiom a command and sent toreport the Aljutathe dientral in Wahiturn The Major Gencral commbntine the army mate the follwing rep． on thin case：
．My reasons for adopding this comere twand this otheere will
 my instructions were entimelisergardedandin conseqence there
＂ervice of nearly forn eavaly were lot or nealy hon to the mutry durine an ventul periox when it was his phain daty to

 －nwn and it was hi－duty to know that nome of the ant anded an
 a imetrutans it was hiv luty who wemethe It the enemy did
 ary fire to ahd that this arme will mere herable watomplish












 $\because$ heハーがい








 ：amber．





 we rathe robush to command a post．It is port intimated that these
 that the wond retreat on hearing a steam－whistle．But beror． －Hen they are obstrutionists in time of pate throngh ismerance dhe value of avalry in war．and through inditierellee as the the
 hiv duties．
 erly equipped and commanded，we turn now to the more agretal． tield of success．

The recorts of the Cavalry Corps of the Army it the Potutu： present to the word le foons in cavalry tirhtinie m －Mramel： any other service．Fighting as it did arsimat intantr artillery，mounted or dismounted．ly day or be hight frost，snow，and mul of dinter．or in the heat amb hat of smmme．


 rherefully groing on withput when there was nothing fo he hat comaterpart is unknown．Commanded hy sumbons whoh hall： theory there wats atout if in his own hata wur preselt text bu．． mer hating been printed，with Merbity，lireni．Whans．li－tr
 manding divisions and brigades，thiv bery of horeome was me． defeated；and．whenerer brought to：hatt．the－oppat was alway most regretted hy the emeny．It first mose unher sufnuman was the Wilderness campaight of 1sist．If it had bown wher the ．．．． mand of a theorist going out only for obervation．it hight as ${ }^{\prime \prime}$ ． have remained in camp nhater the oonlition－which exited．Int tha dense torest nothing was to be seen or heard and no mon hitend datr－ were possible．Fortunaty ${ }^{\prime}$ there was a real soldine at dhe heal．＂． hesiles ．．seeing and heafinge＂as a cavahreman should，thought
 womb（no Lancers here，but hot work and at－hore tange，if mounted）．

From the tha to the Fth of May inclative．thene thare divi－n of cavaly fought the enemys cavalry and intanter on the lent ：a front of the man army．protecting the let Hank amblhdint the sition at Tombl＇s Tavern qutil the intantry amme up
 that of European cavalry．We go wht peparel to tidhtay fop whether fouml in the open or in the womls．An obpedtive prini
 matil further orders from headganters，while the Lamper and 1 a sars goonly sotar as pernitted ly circumatancos．For ipotather at men in the woods with rifer make it nemenary tior at hole divis to witflraw，and to contipue withhawing matil it rear fhes the pr tection of its own intantry．

It is not the intention fo compile a history of the
aralry an

 －口ur war ly those whe rele ton mach on their awn recollections．

 Gofis in late wars at home and ahread，that hrough the hithere ex

 fertance that in the tuture it canmot be ispored．but on the rom

$\because$ atherat．．．n mew throurhont the militar：
at the－id．which hat the hat cavalry in it





 him have hiv cavalry that he might whi




 －priene with howe tromper that hia perp biale Hew tew worl probathy made the fine A him the＂मpertmity which was all he revt



 a wat eff before a challise of ornersiontil


1．Fath he the mike The rontederate rat：

A．．entht ou the bathe it Yeblow Tasem，in ，
 1．© promine then whly thex dats ohd
 －abss athl Ima心－brisahos lowl taot wh 1：Chamas，attack－the ememy－left and

It is perty armer． ribeles of the world －bext campaisn will
at mind arrelathent－ theik proitions．allit rommit the arme of hiv Wildurnes（am－ neral if the Amins to sti wet．why was it atitil the erevater man aid … let him！gorn ，me and he pronarand iall somothins more W trow hiv four days
 the of Surbloav．giv－ red fom uhbers．diay －harally，and hrought tw the fore it hoonor． attor four has tisht ad wut It monuted
 nome－risht Hank lo－ the millin！atwl hair． tre loy tiomed mareloe： atm Ridhmond．and hidh．While we rearet rederoption of Slimer IU we must alou mote lid it－monnte．l work： 1．（＇ister．supurited attery it a montuted

## 148 AMERICAN PR-ICTICE AND FOREHI:

charge." Sheridan qas evidently much pleased w evidence of efticiency in his corps. and say the harge wat lu. . and that the Confecterate covalry was had teelf in On be second day atter lellow laverp the corps fime tue detent of Richpond. the advance under If pasis wen insi.. he lefences: but thio was asking ton much. and finsws divisihad to turn back. This necessitated the facing about ot the who. command and the crossing of the Chicahoming at Marduw Brid-
 bridge and was prepered to dispute the croming: at the valie tin the confederate infanfye eame out from their wonks and attach-i the rear. This might be considered a diticult signaton tion eres.
 the more mostern Laticer Brigate of dermatis. leseribes the situation and shows his conthemere in
a Even hat it not ben our somed tortume to dete. hate crossed the chictimominy if mecosary, at wes were diseovered be teputing parties. whioh, while. was going on. I had solut out to look up thats. Th ting out from the cirequareribed platean I did not ever, unless there was her alternative tor 1 wishent the caraly erppe the imposilitity of the eneme de
 injuring us were more favorahle to the eneme thin they were afterward, fow with the troops from hichat there brigates of veternas and about tive thonatal it front and right Hank. with (inromses malry in the Mealow Bride I wis


 relinved ander cireumsfances ceren wore than thase hen -mroun ing us. Therefore ingtead of comeavoring bere way withor tight. I concluded that there would be litthe litticult in withers ing eren should I be beatem, and mone whaterer it I deftated.
 sions with Robertsos shorse artillery bok care of ha intatitre th Richmond and drove it lack. and also deteated (iornows avalry the brook road. Merretr. in the opposite direetion. Hrove the
 fight was going own :anderosed

 prejuliced men to hat one coblelation and pat is. th have matary rth ancthing it must be carel fore must have carl individual med ami trainen tor attack and defense. monded and dismomeded: $\because$ such at can be performed be infantry. shathen her hergiared ot nated men. Cavalry should not he allowed ponten by over-ate. -homb always be kept hury at its legrimade work. That work -uhlowk mand the opportunty that may come at any time tion
 aーt itwelt guickly leyond the Hatnks of the emems athl able to Hoct itselt under all circumstances.
 -mall end with the main army and the wagn trains. went howe .-ithe the reat of the war. being present honkere on all oceraiom
 ... the Hank at Itamere Court Hawe. Haweot Shop. A=hathly and 1. A Harbor, where it dismomited. repuled qua attack make by

$\because$. it (it any stalent desires to rean an alenationt real staying




Then came the sieg ot Pererabure ath the favalry. being of lithe -... there was divided. That portion ging fith sumbas to the - Mambali Valley continuine the same rait and always mettine W. $\because$ suceses but returnitus the math arme in time for the finat

 1. . . have been hated when athe where it wat it hat mot heen tor
 - inf and hiviny fail to show deed more valiant of duty more - -rousty performend

Cimparimons are sat tu be odions. but at the same time they mas

 , Lines from his studies that all goon cavaly (ath do momere het - Ately this hat campaign and Jearn. in adioion, of the throthing
 Co rmination, and the real bull dug phack. whe which thin cavalry. Sh hed the enemy-infamery and cavalry-at binwidlie. and - 1 gh shaken oft again took hold at Five Forks at Tabernache - arehand Amelia Court Honse at Salors Carek at Farmville and a: $r$ the laot shake appeared acrose the line of mareh on the last
road south of the James fiver. will not be found in acequnts ot ant alry anywhere elwe. Thy intantry came up in time. to were: ha if it had not, the cavalry was in position and propncen w take ha. again.

It may be said that this cavalry was mot made in a hay. num w: it. It took three years of the hardest kimd of work, dind it will at ways require time and labor to make grod cavalre. Thy- conditi... are absolute and a violation of them is destructive to on arm.

In conclusion, we mary ask - what is our sithation fo...tay att twenty-five years of peace? Laet the dead on the ('istrek hatte tion in the White Bird Canyon, and on Milk river anmer dhat que-tio The troops that went into those campaishe weme mot like thonAppomatox. And no wonder, for we had lome heftere sume hatk the infantry and wagon thains: and the dre mo of tronfire prot- hat taken possession of all who had not the eners worerane it. art desire to tultill a duty depmed hepothetical ber thene i excuse. There is a lethapey existing to-day, at wome posts, of such power that ceen the ammal in-melion full repurt the Inspector General does not disturb it or ehatse it the the hell.


 may simply thank dod that we exist. We maty draw bur pay rest larly in peace and quietndss. and trust that weravion may min requi".
 in time of peace thourh palpably not ahbe to arompand their tranin war, but who would spad them out with a pont onfer allil wou
then be relieved from further repomsibility on permad dangur
b: vincin:



## Lientenant Arther L. Wagner, Sixth Iniantry.

All theories as to what may be done must. if' couml. .n. banel af". -what hers been done. All forecasts as to the tactional unsw the the arms in the next war must, therefore, of necessity. he b:asel upent lessons of conflicts in the near past. The experience fit the $W_{\text {ar }}$. Secession, the Austro-Prassian contest, the Fratheo-fenman strurat. and the contlict between Ruswia and Turker. ©nablew an to dome with some degree of certainty the manmer in which infimbry al artillery will be handed in the batter of the near future: hint. in
ard th the ase of avalry the experiences in the different war-have - at on difterent and the deductions from act dal tacts so varied that - must wat for the nest sreat content to decide the question. What the proper sphere of cavaly in war?" As .et. we cat only aply
 cared. and then enumeiate our contession of tactical tath.
 armos hrilliant hash at Mawla Tomer woul have it that cavalry









 - P: wintul luint ht vaw







 $\because$ •百.


 - differ radically With all deferene th Von ber Gobr\% and :rime Houmphone. I mons say that I do mot hink that ther or any - er continental military writere have er: Ah at all. Their objection-would not hold gronl it the European Galry were a it is not; an armed and tralned as to he really in. fement of the other arms. The difference of teperaphy ant anty of p"pmation in Europe athl Amenta should mot Weigh much in his question as the ditiorence af barme and training, - Ween the Fimporan and the Ameriath cavaly. For rading duty, : eme mobility and the utmose etticieney in dismounted fire atom
are indispensable conditions; and the latter characteristic is watin, in Continental cavalry.

These are, however, strategic use of cavalry. Tact cally. cavalry should atways be able tonto much that our dmerican cearatry cath d. and whetr the arme blanche cavaly cannot. Colomel sillw, whone ex cellent book has seareelyreved just treatment from Colonel 心 м ser, would place both cavalry and infantre in the spport of the. advanced-guated of a mixed forec ; the former mandy for reanomi tering, the latter to give power of resistance. In this que Ameriman cavalry could consitute the entire support. its tighoing that is firing) power being amplf sutticient to enable it totake cate of it ceit. It somobility would thus be unhampered by the intintry Which -humbid be with the reserve On the other hami. the tighting power of ons cavalry combined with ith mohility would alapt it sulerlly tarear. guarol duty, in a way that the writer in questinn doey mot sern 1 . contemplate.

On the tield of battle the eavalyy has. I beliewe at heant an later a seope of usefulness as it cever had. though it- use wifl difter trom that of cavalry in the pust. The cavalry divinions will manly la. on the flanks of the gendral lime as before, ready to repel attacke.
 of the opposing cavalry be unexpecten phases of the actiom. enatho. them to gain by surprise a position on the Hank of the fenemy- line. Anvthing like a decisive pase of cavalry in thi manner fin future bat thes will probably be excedingly mare. But the ere are pother une tin cavaly on the fied. If armed and trained properly it. mobilit. would enable it to be mored quiekly to worely-premed frints. wher its tiring power would enable it to reinforce the litu if batte. Itpewer as a reserve will thas be much areater than formquly. (avalry should not, however, be fhas used. except in cases of the greato. emergence. Infantry, if at hand, should always be peed: time it power in the firing-line fill be at least one-foumt greater than that of the same number of cavalry, and the latter is too polly and the urgently needed for its straterical uses to be needlewas used in th. line of battle. It is onls. I repeat, where the emergenty is such at to justify subjecting cavalry to heary losses that it shoufld be used i:

## this mamer.

"Each division should have attached to it a force of davalry: wit our organization, about ax troops. Many opportunitif may oce me for a telling use of this \& $⿻$ visional cavalry as comblry pare and sim. ple. It may be accepted as an axiom that cavalry can never breal good, intact infantry, well supplied with ammunition. But intantr:
 A.th ath may hate exhanted its ammanitio : the fisht. ton. aprexially obl the detanse $\because$ hats sutfered servely: when the ment ad ate are . hoddine on he their terth." as it wr ary may attord invaluable relide and pertat Ae of batte in that part ot the ried h. be dat
 : Hine it to take such a formation ab on at an of intanter and amillery A amall tionce $\phi$ $\therefore$ manner work ervat rewalts. Wer hould re sth which Vos Bremow satel the (eerman I
 :rrk," the dangeron whe ublurtaken san
 ..f will be tull ot the extremest peril. The
 chlern atillery and matatry. (avalry w onter than fomerty and it mat heproparal

 - the exprone ot the dontration at part at h





 .. areat lime ot mun which will olloty it
 I: the ground in tront of -uth a wrat batte
 - he heat of action push rapilly torward the fioulty in making atapil chatate of rant
 fre havoce before the supports of the artill ? NaER may olyect that his is a mote hoom - weere hased on at actual ocemremerat Tol
 Tour-a teat which Hamone might well 1 - theory.

In regrand the the of divisional cavalry
sometimes demomalIn the final piuch -hen orne own intansomely prosed. when -. the divisional cavcomplately turn the hine ulw : Hank of a rolline it up or comgiont it to ath coltilade -avalry may it anch nember that the toree tt wine trom devera1. will be -atherselory
 avalre. on Har hathe.
 live 14..her the tire ot If lin. $11-4$ in -maller in therevice for solt-
 - salve hiv army. exon

 h.....nnce at tartacal jack-





 iounly portul mishtin sumbrotimling serat (1) atommandate the he sull, might ereate $\because$ rame "p. Colonel or llambeys. It is. ahana. in 1stiti. where lonhactionat Marsare cited in nupport of
lot me not lee misun-
derstood. I would not. blaty means. break up the davalry hivi
 assume that there are capaley divisoms ofd divinional ravaley It
 cavalry divisions, we shath have to dowithout it. and landent the tan that our army is deficient in cavalry.

After the battle termingtes in either vietory or deteat the cavahy

 forming duty in the fightiog line which comblata lex. bintherem
 this stage victory cammod be made complete. and diatiter wili 1 ..


 it pertorm daties which peprerly behtus to athather arm

I have given this epithene of the nse of eataty in foment wat





 the atrt of war

Just where Colonel si forer draws lhe line letwern for militas: theorists and caretul militars student, is mot apporent. It is mot e. .

 the .legritimate work" of a military stulent. Po...ihlf. hat hemit




 every

 military leaders have gendrally protited by thoretioal - daty. Tolin
 added the crime of being 中ilitary writers. Vas M, Math hal omblio the theory of war from fouth to old are hetome Aust iat ant that France, tell under his vighrous blows as a pratical matatar leadel
 - little tor the theory of war an he dial tor the Pren Commandmentorav unable to grasp the simpleal stratecrial ileat but was guided to
 the art of war. In every (anc a kuowled de of the theory of war - a fentent factor in the succes of the empmanher. Whether that fowlentre he in the head of the semeral hifucht. of in that of his hitet of staff.
 ill her sand or the reverer acondine th the intinmation amd menA makerup of the theorint. Men wherly hevind of thenery are to be



 want the experience obtamed ber ether is fiot the lew impertant

 ambedmilitary theary withmilitary perlanter 1 military themrint








 "mmondiag it the the intructor an the art of war at the Intantre .. 1 Cowatry Sho...

 the methork and s-uph ot the Institution.
 their theoretical starlion, bat of their exter rment it יut own seat war

The propesition of the writer as I undertamd it, is wevelop the cavalry arm the tacolty now existing. Het latent, of uther and dire inderendence of other arma of the serpice and the ability to
be of use at any time and under all circumstances. dithe wh tori or
 ized would be very desimble but let us be careful that infottemptiat to grasp the shadow we do wo in the end lose the sulat:

The illustration in reterenee to the helphesones of a tout thete entirely unsupported bey alry or artillery, when hrobfit int.. the.
 that precisely the condition of attiars which would axintin ath arm. which had allowed its cavaly to be weakenel on deatroked hy fer forming strictly infantry work in the line of hatthe: Wonlal no. anely

 enemy. which is so importhat atter an engasement. hut whith the
 be unable to protect its own eommunicatiom-or ane for

 theory-for he has a theory. thugrh oplosed th theorid. - what wat
 ness in 18it? It is very the that the corge wavensars in the tre



 him go out and whipsteap if he could dos it

The result has been vivitly deseribed athel from that he close of the war. though the eavalry nut anly sate fore whe


 inge of the enemys cavalry. of sereeniner amb roonmond.ring dats and of attacking the enembers commaniation- while anatine eres

 proper role of a cavalry torge. In purwance of it - lexitipnate duty
 two successfal cavalry combats, at ohf chareh and Coid Hatwer. possession of the latter mos impurtant puint and in the fenene...t powerful bery of infantry. Here I aster with conomel fixam that its duty was plain and most ahly was it performed. The (.x.mbtry 1. ing thickly wooded, the while foree was dinmonted. hat barricad thrown up and the position held asainst the de-preate aftark- of th enemys intantry, until the drrival of the sisthand fightemblong
 with hivken appeciation ot it - proper us. w: oft on his well known Trevillan rad. drawine the cavalry of Handrow in his wake and imatiag lenas at ease in rewarl to hiv condmanations. while he matle hivattank
 while I cordially asme in the wotiment that nee mant be fally pre



 Westimat. work


 arm- in lhair lexitimate havines
















 fasmatly with that of the masaler or the Retplion. I atm sure every therer of that date will wrath

LETTERS ON CAVALRF．BY PRINCE KRAFT 7．HOHIN＿ IOM年－INGELFIN：FN．


TIIE exercises which rak place during the month of duly ean only
be considered in equnertion with thow that are held atter the maneuvers and before the rrisal of the recruits：they edmist chiters of target practice，repetitipus of the squadron exereise at atherem rides and of small tield eferoses．These latter have aken a wer different daracter since the last great war．Whodese bet remember

 giving the supposition haf fated to ervatalize the phan of exernton in his own mind．and the olleommisioned officer had（han apperia
 not based upon some old ipditent in elassic histery and presented in
 prower of Prussia：＂or ．－Thapeople of the wost have revpled and the people of the east mareh to oppose them．yom，non－atmminiont．
 loes not exist，etce．etc．：＂yet they make such demands＂port th． imagination of the non－cotmmissioned officers who wep tu exenot， them，that they only ereat d undetined ideas．whith wede woree that note．

The tield service has hinhereontembed and still colutems．wit －the ditficulty that a $\cdot$ situation pust underlie erery keneral i．fer and that otherwise they wif have intelligent manine．It a youn－ lieutenant，or non－commissoned ofter．mast begin his daly work in field exercises by masterifg a purely imagimative compition of wa operations in which not ong has be to act agatinst a suppend enem． but the troope of his own side，whon are to act no his fagk and reat
are alon creatures of hiv imagination：and in which he may be still further required to imatrine a seed fied to be a marshe and a rape fiedd alake：demamds are made mum his molersta ding and his imarima－
 It war those thinge du mot oceur．Then al surroumdinge remain


 batke．for the realitios are preant with him ald atmot ham．



 ：woll it tim still wither aloptiont．




 reximent tomk sreat interest．In this．wat jan＂lae mate an ex－ arsion of three or tome days with his otherer immediately atter the




This－war phan＂then had tuturnish the tommiation for all the






 thase to whom they were sfive＇The main frlathtave of thic plan sa－that．Harims the entire vear：buth the offere amd non－onmmis－



 －＂ly the attontinn athel teat the skill ot the supaltern．This armare－ ＇urnt gave the very leat rexhls in the instrugtion of the men in fied －rvire

A turther usefal arrativement was that every mamehing squalron，
not only ingroing to and cetmrning trom the rield of e． the concentration－mare mes for reqimental exeroine． detachment exercises and of the maneuvers，shonlid take meanares of necurity；that recommoiterins pattols－ham ward，and shoulal not retuln to quaters betose their repr
 －10－110－ tuted．Only one print capled fore reiticism．aml I havelhal ma：nion to remark the same thingrin all wher ravally tronp．v is the recomboiterins servee suttiriently arparated tront service．It is not to be fenied that theae twor dutits things in common．Whep the reeomboitering pattor mined with certatinty that the emems have matre thoir this of that．point．We mat，at a certain lintallow．he e from their attack tor that nisht：and．ugnol the villette or leated patrol of the serority nervire mas a reporter of the encmy s poremonts．Bat it is rery the reronnoitring duty ant the aramity－noriar－hould


 really done nothing in an far ats relates tor radmoniturint the emems






 the nereessary dispositions（o）ofter ath etfertive resi－tathe are they sent far enouth for the fornt formble them athl repnrt the condition of an ememy in proition with atctuess to elable their condmander to ditormine＂pon to be taken and to exeente fiem hetore emminer umber the

 The sermeity－wreire rexnlat a prescribed distame trom recommuiterimg fotrols lasue of the entelly．＇The firsi own troops．the latter ace

In thost cases．wherl at tions at the remelezonus io

Nowher
the w．r．tirit： ：パリ certat have deter
 sillowel＝at． her hamd． ln．،alla．．l
 contililed 1 पן叫 Willi th I口 ハール： lilermil
 ha＇me：a～1ar： － 11 － m － tif ．
 （1）the trot ould keep ： Hewhiluth． $\because=1.1$ tan lia！ 1 ．tha
 res inciru He．l－at th

## LETTERN いN GAVAL\＆N

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 －tance at a mallop．But tor remain hated ion order that a tew var ally in－tructed recombenteriner patrols might be praded out wh the











 atuher that are aunt ont at maneuver is wry probalile Bat at


























St．Quentin upon the repert of a single oftionrs patrol it matke．．． wish that every young officer．who is sent out upon such a patt had the education of a geqeral statf otficer in order that he might $i$ ． in a position to correctly grasp and reprotuce the takieal and ot： tegical situations．

I know full well that I amounce nothing new the recomoitering and ocurity serviees should be can real the same thing in the criticisms mate a she a genoral of high rank in a neighboring army．in－wh port on maneurers in wheh he had taken part with hist his：
 cavalry division in army qrgamization－．＂but without anmon－iner principle．

Even an adranced chatry divison．which is peruliarly ：n
 beyond the line of out－pots in the dirention of the epoms．＇Th．．． measures are not alway fonshle．．－peecially when the debatal． gromml betwern the vildites of the comemblate torne is limin． But there is no fixed sytfon．ha prescribed ruld．tor the remomait． ing service of the cavalry The necessary manares are－deper ent upon the terrain．the omditan of the tornc．the frotivity or




 plicable as in the securicy service For this reanoll they mat pertiormed by entirely difterent beople．

For example：If a vibette is to perform the daty 中t a patrol． must either abandon the duty if a vilette or mus not sur bry from the command：and if the＂point＂widente，ot the alvath． gumbinis orlered to perform recomomitering duts on 中le marin．： alvanced guaml would be without aprint＂，vidutt＂mon ot 1 time．These and similaf oceurences are by wo meate rate ath； have thought it not sug rifuous to say how meremars．it in that recomnoitering service should be aparated trom the sedrity our

I can not avoid maki申e an assertion which somd parahexi but which has occurred to me on many occasions bugh in war ：l in peatere viz：that in pany．ges．in most cases a－mple oftice： patrol reconmoitere bettet and rees more than a whold－matron


－hile a single fatrol．Which can move hithe thacting attention．Then at full squitroni hat cut to recommoter．Whe tempted to ma：
 －ront with the－perial purpose for whinh it
 ：ath not lee acoided without c．．．mpmonisitus －＂therer who is－rnt cut with but futr ment to



 $t$ ath had to tall hatk withour leeture aho t．． ata th the ellemy－intathe lime：the entif





 －ilhine to abtine it－work within the limit－ob

 itin the few atratremen he has with him


 ＂fficers patmon detache．town the same －Herate the ehemy pinition and－erume the

 creal rule．It is mandatory in war to wedl
 －abolutely neceary．Therefore it should －punhine ont an antire－


and thither without more apt athough ure swords with the
 was deramhed．It is dre it．and vometimes heir lowhor．Rut．W brine in mew－of the I dintimetly romela． It tw Pecombantar all ficer－patod on this $\therefore$ arillary $\quad$ リmin it． －rina in aty intioma－ Cr－latrol．hanemer．

 it the＂mtine p－aition
 Hicur－fatmol lint it ．it will h．，vire ull．

 Hene h hiv comarallos
brok．Throush the． ．Whil．Wh the wher
 1nthloll was able ta lavirol intinnatation． at othi．er ，patmal－ at it will do s．：：a
 －furpur．murethan well mosidered．he－ IIC．


NEIU IIRILI REGITATIONS FOI
C.AVAIRE

 -04. When the formation will admit of the smultamens exeenof movements ley troopsor patoons. the dajur may aluse them *xecute movement preathed in the schoct of the 'Tronp ley pre :her, when newesary, the command: Tromen or phation ; to the



 - termed in lite or the aldadron is termed in fine or line of colamos.

## Inctruction of Orti,wrs.

 - en offerers are acombled bor themetimal am

The instrution ot utherere combares the dril


Fi,
-mi. Whe intural lertween troph in line
The -umatron monsi-1, of mot more thath

 ...te maty be amolidated tor the pargere of
When fommer the -quadrom, tromp takn " יheler depemtine on the rank of their rat Aht the verond wh the lett. the thited on the F. it there he but three trogisi and the toun

Trompe whoe captains are atocot take thei ' $\leq 1$ the relative rank of the ottioere prownt ? trop whone captan in aboent tor a few hay
 - herwise directed.

Ifter the squadron is fermed. no cosnizather in taken of the rela"order of the troops or of the platome in the tromp.
In whatever ditertion the sumbron taces the trompare desig. 1 Tel numerially tion right to lett in line and line of columns.and : th heal to rear in column. first 'tromp. sedond trow, and won. i ren a new tormation necersitates a chature if numbere, the change 1 as effect upon the completion of the meven (-nt.

It designating their trompe the captaine we the letter desigman: as. Trap - 1 ". et".
mactical !ntration.



- !1:altron.
- -isht vark
-11r bor lo... than tw. tomer trengs. Whare wers and men. lwor Irill or mathember. their hiluev in line in ains: the tim int the right centur. - or acol th of the left center. places in lime aromet. in commatal of them. nly.or who is in rom.

The troope to the right of the center of the equadren in line c..ns stitute the right wing: those to the left of the center. the lett wim It there be an odd number of tronp in line. the center tromp alway belomis to the right wing.

Post: of the Mrivier. Adjutant.an, sormant M Wor.
 of the remter.

In column and in donble column of thus the majer is "lponi:
 the gride be center. he tifkes post on cither thathe.
 but rides where he can best superintend the more neme of has squatron.

The adjutathtand se
 receive fow him.

The adjutant is one vard th the left ot the majer
 majo and adjutant ropertivery.
 commander whenever repuired.

 peter in rear it the major.

## 1p Form the $S_{i f}$ utidron.




 outsile the puints where the right and lett of the risht center wo. are to rest its litue.

 The right center tronn "de centere it the mamber of trople be thre is first extablished on the lime.

An the rixh center terpapproches the line the gidion and It right prineipal guide deta (hemselves and precoding the trompl fittern or twenty varls, plate themeelve betwern the fulatant an sergeant major, facing the the front; the raidon at the point whe:
 at a distance from him a fittle greater thath the tront of the tromp.

The atjutant rectities the fonition of the fight principal suide. sergeant major rectifies the position of the gridon
The line is prolonged in the risht wing bo the adjutam proting
 tronp and similatly in the left wing by the ferseant matur pontine Enidon on the riatht and lett principal suip. on the lett we each "少
Having rectitied the groition- of the grind. of the tronp wheh
 right and again turn right alout on as to phate himself beyoul right primipal suide of the troop next on the right.
The seresabt major turne heft about. movet din turns left about ow as to phace himselt be
f. 1 the tren) thext mo the lett.
 - phace hamerts on the lime farine to the tront, at the point of

 -r. is.er lar. m:3:
 risht athl lett of the right center trow




pare themathoran theints the thent. - ral, ix 中 mer.l.


 for tater toward the line athd hatt-



The major takesporin tront of the center fand tacine the - mad.

A- acon as the aljutant sees that the dreang of the lime is comf lath he turns to the fromt, salutes the man and reports: Sir: $i$ apuedron is formed.

The major retume the salute with the ribht hathe directs the


The aljutant mover at the trot or gallop and joins the major, of -ing leg hi- right and rear.

Tn日. The squalron mas be formed in line on the right or lef troop on the same principles. the fraides being posted as in the bett .. right wing.

The squadron may a wo be assembled in column of fours
In hoth cases the tropps are arranged in the same relatice ord as when the formation fon the center tromp. When assembled it collums, the adjutant reports to the major as som as the lat trow: has taken its phace.
To Rexfund Dismise the simult,
 sulntituting squmbrom for spuad in the commanis.

To dismiss the squatron. the major commande bamise y... trompe at which each captain contuctshi- town wit own areun: where it is dismissed as prescribed.

$$
\text { To Marth in } \mathrm{I}_{\mathrm{im}}
$$

711. Beintr in line it a halt: 1. Fi, Marin.



 seribed in the sehool of the Tromp. The erntere enide ot the whe
 alignoment and the preareibed interval.
 3. Marif.
 the spuatron.
 front. the major commands: Incline to the right .or yeft, at whit the guide of the directidg troop, with the aswistame of the suil
 right of his former direftion. The direting tronp eqnforms arat ally to the mareh of the grade; the captains of the ofher trom. that the guider conform to the movement of the diree finer tromp: an gratually quicken or slacken the gait according as they are it $r$ or in adramee of the line, obliquing slighty when nefesiary ${ }^{\prime \prime}$. $\mathrm{l}^{\prime \prime}$ serve the intervals
712. The squaton leeing in line of conlomas. and at at hat put in march by the commands: 1. Formort. ‥ (inint, ri,hit, bit center), 3. March.
 me wnles- -perialls provilo.l for.



 ot the the Rert







 athl the forme wherel



## 







- tirve dreswel.









 $\therefore$ ali-hed.






The majur may entabliah the sumben ot the Hmand: 1. Gi,ima., the line. 2. Righet

$\qquad$
$\qquad$
$\qquad$
$\qquad$

In a general alignufent. intervals hetween trond are watere - the captains if necessaty move their town the the rybtion hat ... to dress up on their own guder.

If any of the troop are in alvane ot the new line. the mat (aluses them to be movel th the rear before extahlishine the wilat so that in dressins on que sumber an trow will hate en rein bath
717. When march ner in line or in columa. caplain- will. い:
 obstacles with the greptest facility, athe then mowne the orias formatiou.

 tinues paralled to its oresimal line.
719. 1. Fours right. or tifit . Mabra.

The distance betwen trows in colamm of time fon nime yar

Lift oin Ri,ght.


 1. Right forverd, ‥ Hours right.

 captain commands: 1
 mareh paralle to the front of the sination.
 for the right tron in fime to follow nine yand-in requ the for ing trobs.



 breaking by twos and tronpers and in retioninis two and tiontains regulate the mar th of their troops so an to prentre the dis. of nine yards betweer



 - takes hiv fint in trant af the renter of hif troll
 $\because r$ as the fours unite in lime.

 -irely.
When line furmatim- tommate at the hap, lilue will be formert
 line will be comsidew as the has to...p and the formation






 I indicate the dirention in whith the lithe is

 - athined at the c...mmand morl.



a .. 1001 proter.


- lae front of the hatal ot the coliman.

 1 ....olum!.

 a- the ehanse of fromt is ter the rizht or late

When the line in to be formed fining to the rear. the enides of
 arow wich. the ome fathest from the paint of reat dowe to a little Eabter that troop front.

In formations in which the eruidon mark or take post at the
point of rest of his trong, be gees th this print in the met dirent alli-
 guidon to take his poot Lare dressing hiveral.
 Prompt aligument should be insisted upent

The guides should he taught to pest themacher with ant aill.
When the guider do mot anticipate a movement promply. W. captain commanls: finder out. I Par. aiz1.



mand: Fi,moriol.

P Par. 4ti.

2 . March. When the hefols of the hares ht his hating fome hate

 finmad.




 lime. I Par. 4ti. 1
 it- phare in lince chatuse direction th the left and whon thiets rat:
 3. March.
 athl hirte same in rear of the left of their fata- in lime. .hath-
 to what is explaned tor the captain of the secome trond.

If marching. the capains in rear of the firet omit fle combat firwort.

The principles of Pat. $\therefore$ aplys
When executed at a frot or gathop, the leating tronp ermatimen he the troph of direction until ehangen liy the majo. it. "apta







 dirty yard it rate of the lime




 : d der-an it th the rixht.





 - torm lime th the hete the maine command











 - lealine four arrire abreat ot the bine :

The primiples of late - : tpple.






## 17t NEW DRILL REGTLATIONS FOR (.AF.IIRY.

In firming line by two moments. intervals if lont will he re. gatined zubsequently.

FO9. If the column has changer direction the the tot torm



The principles of Par. apply
Tutorm line to the leff. he commants: 1. Fiour. letr. a. Lieir



At the first command. the captains eommamd: 1. Afit format

 in line amb dresses it to the right.

In eolumn of troops. cele! cajotain takes post on the sile of the raide. six yads in tront ame six yards from the Hank of his trowl If the wnile be conter he fakes post on the same thank ak ilue major.

The distance between arous in columb at full dint: mo. is tran? front and tive vards.


 き. Collman richt.

 into line to the left. hatts to the left.



- Buch tronpexecutes the turn amb halt. Par. if+2.,

Being in Line. to Forbe Columa of Trowpe without Instimes.
 rambor.

Each tronpexecutes thy turn, Par. (itis). The sulide of the hat. ing tronp is charged with the direction.
734. To change slight|y the direction of march. the maine anm mands: Surline to the right (or lert): the grade ot the lepolinge trew comes gradually into the wew direction. the rank confonning the himovements. The troops in rear make a light change of lirectinn in the same ground and in th. same manner as the leating one.


 movement - lar (in.


 it the while in tront.


 of the rank athe two yatu trom it thats; the raptatu ot the tirat


 ath remain-in piato. his funt whent the rear town besila-it-tupt.

 oxplatimed tite the lataline troul


 lafiore the then.
 arive the preparatory (ommand: Right or let h, hititurn.


whiti 4. Mariti.


Marril. 3. S'pitidron. t.

The command hat is given, or the grick anomede a- the forms anite in line.
 race and distance on the marcin.


739. 1. Troope right for hetit. 2. Marelt.

 the line is to le formerl.
 rum. : Marcil. 4. (imit, woter.
Bring in Column ut Full Dxtamer, tu Form on the Kight or Apit int, Lint.


 halts it and ilferses it to the right.


 the first.
 rear wt the tirst. commanm

$$
\text { 1. Hi,川,!il. } \because \quad \text { (inil. ridt }
$$

Being in Colmmen at Fall Dixtence, to Farm Front intu, Line. Marin.




 movement as preseribed top the secomat
 vards. and the movempat if completerl a- betiore

The principles of PAr. $\left\{\begin{array}{l}\text { aply. }\end{array}\right.$
( 1 : To form frony int fine withont reducing the front of 11
 right (ar left) halfitare. 3. MABIA.
 1. Formard. ㄹ. Guinle left. the raptains of the other tromp cont mand: Kightherti-turn.

At the commanal mered. the first nomb moses fortame and halted near the line amd diesered to the bett: the other toopse seme the right half-turn; eateh eaptain upon the completion of the halfetur by his troop, commands: quide loft: when the lett groide is oppmis.
 ine tomp is hatted amd lressed as greserithet for the first. The pioneples of Par. : :
ft that the trenge mately just hevobl the[lime amd where athout by ars and hatt.
bring in Lime, to change Front


It the serome commatmal. lheraplatin oft $\because$, dit torn.

 itht hitliturn.


 -, the tir-t conmmand.
b: The major mas diree the :





 infinere

Sring in Likw, to Adrance in Jime if dolumme of tiourl.








Brimg in Lime. to Retire in Lime of Clummo of Fintre.



Strrhing in Line of (olumne of Fourx. to O)bling to the Right or left by the Headx of Columne.
 l':ar. ©



Being in Jine of Columne of Fours, to Clowe and Eitend Intprake, (ininin:; Ground to the Frout.
$\mathbf{i + t 6}$. The full intervil is trosp fiomt amb fond yar
The close interval is eleven yards.



Continue the murrh; the (tpptans to the right anmonand: 1. Colnm
 Column halr-right, ‥ Trot (or gallop).

At the command marin, the devismated trong movel forwand : the
 right or halfeleft when it has the elose interval. monton abreat ... and takes the gait of the designated troop.

If at a halt, the captation grive the commands merosedry for puttinatheir troops in march. If marehing at asallop. the defignated troul. takes the trot.

Intervals are extendepl saining sroumel to the tropt in at vimila
 rals, 3. Marcir, 4. Guide whter right or left
747. To elose intervadswithout gainine groume th the fromt the major wheels the fours toithe right or left the onlumn is then elon. in mask, (Par. -53) after which the squalron is wherph hy folle 1. the left or right.

Intervals may be extephed .nn the same principles. (the - guatho: is wheeled by fours to the riarht or left. and tull distange taken as it Par. 755, after which the siguadron is wheoled ly tond. int. lit.... columns of fours.


 and hes the line perperdiculary and when thirty yards fom it the

 l'ar libir,



$\therefore i n g$ in Sine of Troops in Columus of Fours at (leme Intrivale, to Form Columin of Finur.
 MARIH.
 - "!


 Clowe Column or in Muat.

 dice one designated. in front.
 ..lumbu at tull distallece.

$$
\begin{aligned}
& \text { Being in Column of Troops at Full Distaner, fo Form Clow Column. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ntar: B. Mar"h. } \\
& \text { It the second command the raptain of the tive tronp catutions: }
\end{aligned}
$$

(1.\%.
alfal when it arrisen at twelve vads tromphe ome that precedes it.
ille.

> ptains ot the rear trongs omit the common fols for jutting them in :arch.
> The prineiples of l'ar. \& apply. If exerpited at a walk the learl-
> - trocrle is halted at the commathal momely.
> , $1 \%$. To rlase the columan on the rasamont troop, the major



follow the one preardiner.



 right, in time to follow the fue nest perenting.

## Movemata in Clow Column.


 groumd to the right or leff when marrhing by the Hatik athe re

 umb at full fistance.

## 

 (or left), :3. М.

At the serond eotmmand. the captain of the first trolp fommand



 Lift, (i. Dress, T. Frost.
 ter the new eolamin in rear ot and parallel to the firm.
 formed in line to the left and dressed to the left.
( $b$ ) The major may order the tirst trow to he inelipual at at! angle to the rriginal front. By this metherl :my dire.etifu ma!. griven to a close columb.



Being in Cloke colum, to Form Line.

 and then forms line.
663. On the right or left. The movement is exerouted lis the samt commands amd monas ats frold columa at full distamere.
Ti, Ieploy the (lowe Collom,
 1/t, : M. Mlat
 -th!.ifict










 forore and torm lime tated to the rear.


 tomp tront and tive vamb

The raptan take ju-t as in lime
In phovins on the rixht wing tonn line bug tromp of the right



 -irlat Wilar.











 Howing modifications in rexam t. wh the right or hitt intuline. and wit into lime-


7i5. Being in mareh: 1. On right arlit, intalin. $\because$ Marell


 begond the lett tank of the preceding iomp.

> Being in Column ni Plutmom, to Firm Frout into I.

Tis. Befing at a hatt Marit.
 Right front int, lime: the calptain of the serome trowp collumat, ! Forerard. Z. Guide left, :3. fohum right: we other vapt: ins: 1. F card. 2. Givide left, 3. Com, men mir-right.
$\qquad$ the segond troop changes firection to the right. mine torwar changles direction to the ket so as to apmeath the limennu-it. 11. posit on of its left platoon. and. when at thirty yark 1 onn her lit. the qutain commands: 1. fight front intoline: Mang": the thin
 half-left when at a distance trom the line cural th the theph of th
 the movement as explainedfor the swombl.

If marching the raptaipo if trome in reat of the Fr comit: commands for putting then in mareh.
 by the major.

The principles of P'ar. Naply
76a. The line fared to the rear is formed in a simifar mathe:
 when the last phatoon has arrived in linne and hrown un on the lit.

## Ifition Columin.

Gat. A phatoon columu is a trow in cahms of plat worn
 when fill interal is stated. ptwelve samp.

In life of phatoon eolmphes, the position of the majan is the :at


## To Form Line of Platom, Columux.




At the first command the captain of the lef fing trop commands

1. Forrarl. 2. Ginit, hift. :3. Celumu right: the other captains com-


At the command mern the leatine tron ehanger direction to


 - an to the right, so a- tharrive abrean of amid the right of the first

 an explatimed tor the tirot.
 amploin march.

The primiphon Pate - aphy.
Shouht the mevement terminate at a hat the guidun of eath :rnll preceles it on the line and is establiand at the peint in rest.
 lumms.


 Being in Column of Platnons, to Form Front into L ne of Platoon Colume.
ias. Beiny at a halt: 1. Right or leit , fiphtintioline of phatan flmons, Marcia.
It the first commani. all the eaptains command: 1. Formard, ㄹ. Guld Irft: the watain of the seromb troop ahk: 3. Collmen right:


At the command march, the firet troop adrances thinty yarda When the cajtain commamis: 1. Thop. $\because$. Half. B. Lett. t. Dress; - ie second trool changes direction to the right moves forward and
 ithe halt-abreant of the first tener with the froper interval and
 hange of diecetion half lett they are hrought of prosite their phaces in the amblomplete the movement as explane ar the second troop.

Being in march. the saptains amit the command firvard.
The principles of Par. siply.
 ally twits new porition.
iat. The rgatron heing in cotumn of fopre executes right or



It the first command, the captain of the first troop commands:
 command: 1. Fowarl. ב. Giund right. 3. Columin halrimht.

At the command merch, the risht roop ehanges direction to the right and is halted when the pirot wooper of its rear pation has

 of dirertion hatt risht, it will moxe paralle the the colun mext on the right, and is hated on the line.

If mathing the captains omit the command furmard.
The printiple quat aldy.
Being in Line of Ilation Colmmes, to Fornt Column of Platoms.


 "aptans put their trons in marrh. and nake: partal change ot dirertion te the risht. ... an t.. follow the tow bext out the risht at a divance equal to fatom from and five vale.

Being in Lime, to Breakition, ho Right or Lejt
Column or Foms.



At the thind commant the captain of the tirst trop commamis:


 -hange direction the tront on the ame grtund as the tirat troup.

Being in Line, to Form Imoble (inhm of forles.
 Giade riaht or lift ,

At the second command, the capain of the center or risht center trop commanls: Loft formard. finers left, the captain of the right tronp commands: Fimers left, the captain of the left center troop
 troop commands: Fobers right.

At the command mareh, the conter tropp birak to the front in
 , wro the serond, the fourth troop wheels by fors to the right and fol-
 :he interval.

The interval may be rediced or extended as circumatances may require or as directed by the major.

The double column of fors changes direction ats preferibed tion a line of columns of fours ( 1 Par. $1 ; \sigma$ ).

Being in Double Columa of Fours, to Form Line to the Front.
ixa. 1. Kight and lejt tront into line. : Marall.
The right column forms right front into line and the heft whann forms left front into line , 1年r. T2.
Being in Double Column of Fo mrx, to Form Line to and on the fight or Lrit.
 left, into line. 3. Marcis.

At the command march, the right cohmon forms line the the riathe: the left column forms on regh into line. on the lett of the bealing troop of the right column (Par. $\overline{2}+4$ ).

> Oder in Echelon.

Es9. The distance betwein tronps in the order in ech finn intromp front and five yards.

The squadron in line forme echelon on the tirst or fouth tronp as prescribed in the school of the Troop, substituting troop tor $p^{\ell / 1, t o n} n$. and squadron for troup.
 the squadron executes the porements in echelon as presinibed in the School of the Troop, regard being paid to intervals and the distances between tromps and platoons.
791. Line of platoon columns and line of troops in columns of fours are formed in echelon on the same principles as frop line. The distances between troops ib echelon in any formation, afe the sam. as in column.
792. The squadron in echelon of platoon columns eq trools in columns of fours marches to the front, to the rear and bo the Hank. and is formed into line by the commands and acordine to the prit. ciples prescribed as when in echelon from line.

## Instruction.

793. The major by mankers or in some other manner indicates: line to be occupied by the squadrod, and also indicater the powition of a supposed enemy; he desigqates the officer to command, fudicates t. him the formation at the clore of the movement, amb dirgcts him th place the squalron on the iqw line. Upon completion of the movement the major gives his julgment upon the following: -

Was the squalron marched to its poridon by the best and shortest route. in the simplest manner and the under the conditions supposed:

Was it hated at the proper time and if it in the formation designated?

So movement looking to correction in permitted atter the command halt is given, until after the magor ser his obervations.

In accordance with the principles lai down in Par. tal. til, varions exercises may be devised lowking on the promptan proper maneurering.ot the -quatron.
The Chuth.
794. The squadrom in line, whe line of pition columbs. in column of troup or column of platoms chares a cording to the grinciples presicribed in the sthool of the Troop.

- In chatrging hy a quadron the major tak pont in the line of cap. tailis.

In charging the enemy by sub-livinion the -uhedivinions charpe sucessivels, eath at such distance from the ore preceding a- to nupfort it promptly. or to enable it if repuked to chear the thanks of the columnand retiom in its rear. The sucees re sub-divisions continue the attack, heak through the enemy's lipe. rally in his rear and charge arain an they return.

When trops charge separately from fue they reform in their place in line passing by the flank and rea All monements for formation shubld. if posible be made beyond the range of the enemys rite.

The wat penints of a line or columm ane the thatiks. The flanks may be protected by torming the fank trens in order in celelon.

If time will permit, officers and men fond he instructed as to the partic ular object of attack the each trond the rallying print and the renewal of the attack.

> The Squatrion Artimg Alune
74.5. In the instruction of the oquadron in the. charge the major will be geverned by the principle of lat till 4 til and bial; a Wefinite tactical wiont should be siven.

The squadron when alone is formed in same as the tronp when alone.

The sentior otfieer with carlh of the line taker post as ouch.

The attacking line may enosist of one.
When necessary the major designates
two or three linew the
i- hader of the line and
wo or three tromp.
c. tormation to be taken
by each line and directs the relative positions of the support and re． serve，with reference to the attacking line and explain the ciectiab part each is to take in the attack．

Each troop in the attacking line will be complete．that is．part－of each will not be detached for the support or reserve．but one or morr platoond of the flank troops may be placed in echelon on the wuter Hanks．

The reserve and suppoft may le taken from the sape troup．

## To Charye．

7ab．The major designates the attacking line the sulplurt amb the reserve，and if the pistol is to be used designates that alm．

When the squadron has arrived at the position for tapins the fin－ mation，the major commands：Form for attack．

Eachlcapain of the attacking line canses his trop id draw salmer． or raise pistol，if that arm has been designated by the najor．This captains of the support and reserve cause their troop th draw sather

The attacking line takd the trot：the suport and pereve mow toward their positions on the flankiand each takes the that when the attacking line has gained the projer distance Pat 693）．

When the attacking line has arrised at the proper pace wherin


The attacking line adrances，guiding on the center：as the time －or place for taking the chatge is approached．the sallop is increantil progressively and the chatrge is made as explained fipe the troll （Par．695）．

Foragers may be deplofel on the Hank or Hanks of the attackint： line，the captain designatinge the platoon to deplos．At te command to the charge，march，the platoon deploys：at the commandidurgi．the foragers swarm around the tlank and rear of the enennd

If the enemy aroid the charge，the major may send a tromp in pursuit，as foragers or in compact line．The rest of the fine，held in compact orler．follows the pursuit．

## EXTENDEL ORDER． <br> General Principles and Rulles．

797．The squad is the basis of extended order．The men will be taught to regard the fuad as the unit from which they warla： never to be separated．But if the squal shouht he broken up．or the men become separated，the are asigned to a spuad．or place them． selves under the nearest lqader and remain with his sumad as it it were the one to which the originally belonged．

Otherer and non－ommissioned offers prevering the integrity of the entad；the necessary and see that every man is phaced

The captain．the commander ai the edh fon or the chief ef platoon appoint－leater，of oquats newly orsaniad．or new leaders to re phace those disabled．
 turll wit at sum as pessible．

Toll．The ofticers，and when necessa $\because$ the non－commiswoned otticers．repat the commant and able them tole execoted as soon
 mand－mecosary the the execution of the prolers of the captain and． in semeral．xive their attention the thentmand divection of the tire athd t．manamine coherinn and compro of action．

$$
\begin{aligned}
& \text { THE TRME. } \\
& \text { Fr, imetion. }
\end{aligned}
$$




When momins a part of the－quatront 中心 firmation of the troop
 purt．

When the troog is acting alone the fontration consists of an at

－11．When the medhation of the drith is understool．the ap－ tain will ean－e movements to he execoted fll varied ground and will preserihe prosramme tor in－truetion，the execution of the details being carried ont by the suhordinates．
stry．The captain is areompanien by a frompeter and takes post between the attathing lime and sument，or fhen the troop is in three echelons，near the support．

He direct－the action of the whole tronpe control－the reinforee ment of the attarking line，amb kerp upt ex suply at ammantion， r－gulatint it－distribution and expenditure

His orders．qiven ly word ot command．signals of delivered by arderlies are direrted to the commambers of the atataking line，sult port and reserve．
 P：ar．1：14．
sam．One lientenant enmmand－the attankine line；the other lien－
tenant commands the reserve or if there he no reserve he command the support. If there be and aditional lientenamt he mat be assigne: be the captain; if the formation be in three echelons he would a-1. ally command the support
sult. The attacking lipe is commanded be the lieutanat whor platoon is on the line: he takes post alout thirty raflo in reat of the line and is accompanied ber a trumpeter.

The chiefs of platoons on the attarking line mast tre puently bals to the commander of the pine to see his sixnals. The dhicf of the piatoon to which the base equat belongs gives particular attention. to the march of that squad, and sees that the wher squ: it takes and kecps its interval: the other chiefs of platoon- see that heir suattake and keep their intersols.
nob. The support in line or column as mat he expdicut take position ahout two hundred yards in rear of the center of the attack. ing line and maintains that relative !owition. The can ain may di rect the support to take podition in real of one Hank.

Scouts or patrols are synt wat to protect the fank pant alrealy corered by the reserve, a natural obstacle, or he a comtictone orsanization.

The commander of the sppurt takes a position from whim he val observe the progress of the action, and if powible wate the acoutor patrols, keeping a good bokont for the commands and sinnal on the captain.

Rug. When there is a reree it iocommandel be th. lieutenamt posted with the part of the troop from which the ruerry is tals.

The reserve takes posit on about one hundred rard in reat it the support and astally opposite one of the Hank of the attarkille line: when the troop is acturg alone. it the suppor has wition op posite one flank, the reserve should gencrally take position oplenit. the other flank.

When necessary, sconts a re sent from the reserve on the flank w...: corered by the support

The commander of the penerve takes a position trom which he cat see the support. observe the sconts. ami, if posible, wet the raptainsigmals. If unable to make these observations in perno. he tumkeep himselt in commanication with the captain and the - 1 purt ly means of men sem forward on carre messagen and repeat ignals.
 the attacking line. the reserfe takes its place.
 as skimishers, from any formation: the "aptain will hepismate tine
platoon or platoons for the firing line and those for the suphort and reserve. These designations should be made when a deployment is imminent and thas arod a posible source fonfusion if an emergencr.

As a rule the platons to he designated for the attacking (or fir ing) line are taken from the left when the tron in in line: the lead. ing platome are designaterl when in columat.

The captan indicates the objective and fives the commands necesary for the depleyment.

The commander of the attarking line uroves hiv line forms line of sumats or deploys as skirmishers and oplers the firinge etc.. according to real or supmed efrem-tancer on at lhe captain may hirect.

The support is moved to its position when the attacking line fialts or has sained the proper distance ant is hed ready to more to the assivtance of the attackine line and to act theard cither Hank.
sus. When the entire troop is depluyed. he captain take immediate control of the line and take post athont fitty yards in rear of the center: he is acempanien by a trampeter phe principal guides and suidon.

Each chicf of phatoon commande his phatopn, but the captain may apportion the line to the senior chiets of phatenns and in this cave the principal suides take their phaces as chefs of patoms.

- H!?. In all mosements byats, the foud leader gives the "ommands nemesary tor the momements of his sequad and leads it into ponition.
-111. Indephovings simithers by the fank, the spad leaturs -upervine the dephesment trom opposite the par of their squals: in forming line of platoons and deploving as sirminhere the thent. they keep their places in rank, retaining how ree the superinion of their : mad
 wibed for the equad substituting tronp for onem in the commands and explanations.
Ti, Fi,rm Lilue of Syuad

Q12. The sumats are hesignated as in Pan tiet.
The normal interval between squads in life is fortrofight gards: t. take a sreater or levs interval the comman: At si, miny, yords, is added to the first command for deployment

 Fogers right orleit \& Marom.

At the command march，the squad leader of the left plat marthe－ it in the indicated direct on；the other squads execuge finurs rimht column half－left，and are narched by their squal leater oblique！y theright；each is marcheh in line to the front when it has it－inter val from the squad next oward the base．

The chiefs of platoons take post ten gark－in rear of the cemt． of their plations．

The principles of Par 8 apply．
If the captain designates the line to he ocerpiat，the－quad lealler of the base squad halts it on arriving on the line
 or the right thatk and ench is hated hy its hater when it han wis interval．

During the deploymedt the hase suad usathy refains its fore mation；the other squads will habitually be whlucter to their ne⿻日木 positions，each in column ff．fours．and then take the satne formation as the base squad：but if the contigumation of the aremond or weth necessity make it experlient to change the formation，as from line 1. column of tours or the reverse，the squad leader may math．the chants．
 On（wheh）＂ined，3．Fouk right and left．4．March．

The squads to the right of the base squad take theif interval－ 1. the right and those to the left take thein intervalo to the lqt F＇ar－a：
sin．To hat the troo，：1．Troop．2．Halt．
The base squad halts；fhe others are halted on arrivingen the lim．
The suad leaders hate their sumb tamed the thent．This r． is yeneritl．



## Troop，4．Mait．

The movement is executed as in Par．bition the suad kendur marching their suluads to their proper places on the lin

The principles of lare 8 apply．

2．Мавси．
The movement is exected as in lar． $1 ; 11$ ．
The principles of par． 8 apply．
sls．To the right or llett：1．Line of anduls，$\because$ ．To the ryi （or left），3．March．

At the second command the suanl learler of the rean on uad com． mands：Fours right．

At the conmand matrel the rear suad fond line to the right．ad． ances six yardsand is helted：the other oquas continue the mareh mb tarl in sucewion fiom the rear of the folmm，when it has its


T, Joplay a sh, mishot.


 ：Mar－h．

－20．It durine the dephoment be－puab the captain wishes to





 ally sain their intervals．










The－gank＂pen trom or elowe ward the pase－unal If marelh．
 hatt thes are mamend lis the famk．


 B4






The skirmishers or quads and the support and reecree mon
promptly toward him and reform in the normal order


## 2．March．

Executed by each squad（Par．499）．
The Rally.

827．The captain gops quickly or send the enidon th the－quat， or place selected as the rallying $1^{\text {wint }}$ and sirnals 中 commamb Ralify．

The rally is executed as explained for the sumad．The suly
 rallying as practicable the troop is hasembled or araid deployed．

8．8．To relly by plptoons the（aptain commanls：Rain．y in platooss，and then joing one of the platoons．Each latom ralio．． as explained for the equad．


$$
\begin{aligned}
& \text { marchiy is. } \\
& \text { To adraine. }
\end{aligned}
$$

829．Being deployed as wirmikher or by suath，the eaptat designates the base spual and to its leader the peint of flimetion an


The base squal marches in the given dievetion：the other what march abreast of the base keeping their intervain．\＆fre fa！
To varch to the Rerr.

If deployed as skirmifhers，wach shad mathe－to the rear．Pat 503 ）．

If in line of squads，each－quad lember wheels his suphad left athe： by fours．The captain designates the point of direction the tha－ squad．

Itpon halting，or if the command－formard．marth．are sicem．th squads are wheeled left about hy fouts．

831．The captain shofild occanondally make sight фhange of it． rection in order to accustmi the suate to contorm promply wat morements of the base．
 of direction and commank：1．Chelige diration totheright we．． 2．March．

The right squad，which is the base．changes diremtion an it it we：
 other squals conform th the new alignment．


## To，M，的広b，the FhnA．

－32．1．By the right or legt ，thenk．ㄹ．March
If depheda－skirmishers．the movement is exernted as in lar．
 ank in column of tours；the rear syads follow．
－33．Marehing by the Hank．whance hection the matain


## Firints

＊34．The trimg lime executer the firmet avexplaned for the
 all cenemping．

He maye when necesary indiate the obintive the kind of tire． ie number of romus and the range．
 －imal．

．（＇eline fibisio．
Fath whad execute the firines as if alon
One or more－guals may he de－ishated ne fire
－3ti．The troop may be deplyy and mprements may be exe－ －uted by platome he the commands and mene preatibed for de．


The interval between patonns in line is nim tr－six yards．
The chietsot platoms take port a4 presericed in the sechorl of the Tronp．
Pl,九t,i,n Irrill.
－37．The platoon may he drilled in the annts as explaned for the troop．The chice tenle 1 order more． －ruitor．

## Movements Dixmounted．

－38．The movements as preseriled in chos order monated may ＂r executed by the patoon，the troop，the qua ron and the reximent i－monnted．conforming to the principles prow rited in the school of the soldiar．But it must be borne in mind that the efficiency of arunted towps depends upon their ability to checute the movements
 tu－t alway be kept in view．

Morements in extended order diammonted

principles prescribed for dismounted drills: the movenemeare ax. cuted in quick time unleks the command dowi, time he sriven.

In deploying into line of squals dismonnted. the in erval betwe. the squads in line is twelfe yurds.

## To bismount to Fight on Fiwht.

839. The troop beink in columb of fours tw diandunt ti. ficht ...
 front, 2 . To fight as mot.

It the second commadit the troop dismonat- to tight on fint and
 squads torms on its leaditur four. Which stanhe tant.
 trumpeter, or by a man letailed for this promoce fion remain
 their rear fours and on theirleft : the prineipal suide- ling their hamo. to those of No. 1 of the furs behing which ther are puted

When a reserve is defirnated it remains mannted in a the led horses. except when directel to dismmut.
 mediate charge of them (Tar, ilt; .

 direction, etc.. as when mpunted.
sto. The troop havinke been dismonted and the equal- torne... the troop may be assembled or deplofed. In asemblite or hepley ing. if squads in rear arrlve on the lime hetiore others fhich -hombe. precede them, they must leave interial to form in norinal inder.
Being in Column of Fours to Diamount to Fight on Font to the Right ar Ler.
841. The captain commams: T. Th the right, or liti: $\because$ I. Fight on Foot.

Executed by each squal as presco beel in f'ar. iso.
Being in Line of Squads, to Dispount to Fight on Fqut.
84.2. The captain commanls: To Figint is Fiot.

The squad leaders disnount their qquat- to fisht on foont ... a- 1 , fall in to the right front, of on the taipk toward the enemins.

The led horses are moved to coner in rear of the finad. or atr. assembled.
843. During a deployment. if the finstructor camman ds: Tw, ñ, on fort, each sub-division on the line or as it arrives on the line. dimounts to fight on foot and falls in so :is wextend its frent tion the point of rest. This rult is gemer,l.
44. The tromp dimmunted torisht on fort. is monted by the

 lowing interval if nemesary.

> T, Licliet, the Firing Lidt
45. The eaptain notitie the commande of the tiring line and -upport. The commander of the tirine line notition his groupleaters.

The support is deplaged or extended so :if themplete the move-
 - wophed, either in adrane or in rear of the old lime: the latter is Shen marehed the thear and anemblen amb eemmer the suppot.

## To Keingirce the Firing Lide

-tti. When there are intervals in the fifane line. vither on the - ater tank or between rempe the reinforer hent in plated in these
 when practicable.
 may dminish interval-ward ome Hank: for support then moves inter the - pare matle ramant.


 -harse of their froportinnal part of the ling athe the action pro-
 and only when the emergency demathe a Rompt rimforement above all other combilerations.

> THz: :
45. In battle exercien. when the enem is imaribary or out-
 Whe suadion to command the movements. Ghe mation pertimen the huties of chicf umpire.

## Formotion.

-ts. The squalton in extended arder. whether oprating alone ur in regiment is tormed in three echelons. piz: The atterfinut or fiting) line, the troup support and the rewerte.

The attacking line eonsints of one, two or theed trops.
Whatever the fimation of the spatron. ind mator de-agnates the tronp or tronps for the tishting line and thase for the reverve also. if necessary. the size of the tronp suppert.

The fighting line consists of the troop in the attadkine lime. in. clading their supports.

The reserve takes ponition about one hambed vard in rear of the supports, of as may be difected by the magor, and is pmmanted by the senior otticer with it.
st!. Being in line the major commamb: 1. Limforment.


It the secoul commant the ofice wand mon-ommi finnombtion take their posts, and, when necessary. the suphert of the base trelly and the reserve are haltep or moved a little to the rew wor mot an interfere with the deploy frent.

At the command merth the base prope dephers: thy trong th the right are marched in column of four to the risht athe phet. when the
 its captain: in a similar panace the trown the left fare mosen on the left and deployed.

The principles of Par. orpyly.
Before reaching position tim dephyment. the captang-may letach their supports. which the mareh to dheir paition- wit pout intertering with the wher troups.
851. To halt the squadron: 1. \&iquirun, 2. Har.

If the major derignated the line to he occupient the eqpatit of the base troop halts it on arrifing on the line.
851. Being in columat of fours: (2. Right (or l, it) front int. hen of squads, o. March.

The tirst troop deploys as in Par.si ; the other trom are marchent to the right front opposite the left of their intervalo und deployed.

The principles of Par. 8 apply.
s52. The column of troops is dep oyed be the same command:
the first troop deploys on it. left or right subul ace prating as the fomation is to be to the fight or let front: the other tronge are marched opposite the lef or right of their $l^{\text {mation- }}$ and then h.. ploged.
sa3. Being in column of fours: $O_{\text {n }}$ the rinht we lift into line e, squals and lime of squme to right or leit are fommed by the commandand means explained for the tromp. Hach captain depprshi- troug when opposite its position on the line.

The principles of l'ar. \& apply.

211


1. As Nimmivhre:

 interval- th the risht athl dephes: Howe th the bett asm heir intere val- to the bett ath deghes
 and the mincipe. al l'ar. - aph!







 $\therefore$ +h. latit 12.0.1





 $\because:$.

## T\% .1.....1\%,






 iimet.





 -roup.
sto. The major herignate the wrops for the tightins lime all for the reserve and indicite- the si/k of the tronp suppith
 mounted, and guards or thenishes the suard tio the lefl home

When the squadron is with the rqument. the spatren reatere
 led horsics.

 fort.

After dismounting. the suads falf in and earl caldain a-momble his troop on what was his leading sumal hefore dismophtines.

 (Par. stis).


 it left front into line on the learlings sumat.
atis. Being in line of phatom folmman the mater berak the trow
 squatron is wheeled be fours to the reght or left: the foop are the. dismounted 10 tight on fent and deplofed or ansmbled : on the ron may first be deploge front into line amb then diompontern on th troops dismounted as the sucessivelyarrivent the line.
 right and left, so as to form on its outher Hanks.

Whatever the formatom, the malor maty desisnatt one me me.
 emergency may require.

 morements as may be medesary with out asembliner the suluathw:
sian. Being deployed on foot, the supporsand reservare ? ass when monted and madnain their relative positions
xitit. The led horses afe kept under coner in rearen their real" tive sub-divisions or assembled be upop: or, the mabor may dire them to be assembled in ratr ot the reserve.

When the led horses of the squairon are aremblen umber ant




Tי Awombthe si, intirit.













> Th Re,


It the wephement be trom lite the colome he-ignates the towl




-
It the deplogment low trom ablumat the la an


xי-utent: the dexis on the line. when it -gnalion.

-     - [uadron deplow
 tront.
$₹$


D






 tillery.

 count ot wome expermeht of his atw. With their reqult- in the -
 chanoms, hawn trom thase experimente, which may follows:

 hurtul and ultimately hootrurive the herev, font and r.
 uneful.

 ingoe tenber-tooten or hame.

 fothow: I I have had oter tifty hoper umber my rhater tion the
 ficienty to concince the mont skephat." that "hay pan math
 feet.

This would seem to he a case. in which. to revere a rather undersized monke of experiene hat hroush laboroa decidedly full mown momatuin of comtitencer

The artich jut mentionel wa--uhmitted by the editor. With re-



 い....l.













 arely ombural













 arakine ot the pirket line






The line proper was theth choely facked with latere bocks of
stone bedled down into the soft dirt. the ground havint buen broker
 Coble stones could not be had, ami therefore the stones oft the contite had to be used.

- The fonmetation then laid is eov red in with a hafer of mallen stones. bringing the wholg upt a hant even suffue ady rame. wit
 sand is to be used so as fo belp hind the rock. amd at the sume tome the prevent the gradual filling in of manume that womd of herwioe hat pen. By this means a hame shampand vot clean -upfore can alwarbe maintained.
 always dry, he adds: .. They-the burses feet-wil he kept dry ame hard. wjll be worn down naturallf. atmel thi wear fill keep thent lealthy and in a eonditionto staml war aml lear upong any surface
 for a period of sis monthy. at the end of which time their entulition is thus described: F Every horse has oplembil houtt that ifn an: break and crack. but weat away nathrally. The fore have deve

 them with the rasp. and hone at all tith the knite

I pon the results and permaneme: then of thi hathenint troas

 pack mules and Indian ponies is cladimed bis war authof as radts coutirmatory of their owh experimethts. Ot the Inhan prob it
 than those of our colts." quel $\cdot$ hiv vety inability to st: is thought to be convincing promt of the necessity of fue hardenin. process." As a mestare of the succets of this procerlife the athly relates the following hintory of a recont very -urprini per trial it i: merits:
 lery, with unshod horses. marched fiom Fort Riley. Kadsas. to 1 :ath Schofield. I. T. a distancelof lita mile in eleven lay tomp part all of the operations of that $e: a m p$, mom september opllow (i.fol. 11th, inchading several rppid marehne for a romideralhe diotath over the rocky and natufal surface of the country: fond marehe back to Fort IRilev, over a route lit mile- in learth. if eight dat. and all of this without ank lame or fiotsore horses. Ge feet of at the horses were in as good condition on their return as when the started, and were all in sonad. healthe and dumable slaper. rean? have prolonged their marth indetinituly
"The roads, going and coming. were the ordinary firt roath

 he same wath and mate the same marehen for cavalry. heturnng we hat sereal dap of rain amb hear madne rable hat the

 aind witt Eround

While ill camp and on the whele tripe the

 fue tor mearly six werk-
 "the remarn mather that te dentor aje and - C .

For thene whem there experiment ate





 hambenins frome. weralled. the ther with nemene of the writer that sem winar. poin it mert
That the hura - hand in directly and f.e.w. ature athl contition of the -ail ajem whim

 ....it Hetermibed he this habitat. will hacol ance of hat hered. Insancer are the Hat : Fleminh howe and the hard and marrew orne 1. - hould not surprow a theretore that it wat me ar ax montia. to complerably thathon : harow. But the :awmption that thiv .at -mmant atter the cathe.. Which prolumed it amost a contradidion in ser term- That su ont her sudiur him upon der rock. and?


 - conditions of ative serviee are ape to be "ane dearel tor the weltare of the howt. Mat


 The howts shawed nos
tin their stone jickert
.4. $h$ ".iv immeliatels c.mher :aml won'l down
ret quite collulasive for turther thoreretical trationt llatt credt the Contimat travel over We alvoratle of shere atriaral demmfatration roblsilerationt of the
 -rme. extent at leant fally-intar-mod liythe orear= is a di=covery athl. Whent the hathitat -timetire -latrater ut all แnitarm inheri - pubars hoof of the ot the Sheilamal poros Pu-silhe. in orn -hort : Hill harelper the bewit Mitioll would remain were relowfed, meent 1:an harde.l at horac 1 (athont -often it heg haically alout eyuis hes jutting it in the And. untiartunately. the verve npmate of alla water for eqnain.
post, have made a seout of over thred weeks duration Thrine whid not for one hour were my horses teet unexpmed th the influencer if snow, water and mud. The well known efteen of water upen horn render it very likely that the most thorongly prombel undo.. hoof would have been made soft and vidhling be this fondonewinmersion.
 necured as trameportation fereral pach train- that had heen emple.... tor some years in carrying supples from the head of pavisation at Lewiston. Idaho to the minere in the fahmen River mentation: theor mines being at once abandoned for fequ ot the hontile falians. Th, mules composing these thaths were df Mexiean harm fomentre had never been shod. and were deocenterl trom an immemprially um-h... ancestry on both sides. consileriag the remathably rowe ald broken mature of the condry between Lewiston and feremine and the superior tonghese of the male tont an compared ) what ot the horse. I think it may be deasomatly datmed that the (atin ot thew
 pared" ones of our hig dmerican horses. Fet atter faly therent
 regating the high and roky groundip a large mamber of then mal...
 said, until mot one was left baretont. I remember the feiremantan. well, for the chief packer \& $x$ patned the me that it was the muldy roat
 ther wore rapilly away dron roumpas the hartanderity man tain trail.
 to ang unshod horse-for finstance. the lasa hedsot orn heren Wrewe Considering the great rapidity with|which the home bune we: worn out, it may sately lee satid that the home howt be harder than iron or kteel wempure man trated country.

Practically, as the cataalties of a campaign would have (1) i. mate good from borses krith unprepared homts. the fomith-..th worst enemy of the horse. 't oquote onfe of our atheme fmas - till h. a necessary appendage to a troop or battery

There is in the artiele from which I have heren qugtines in adi tion to the scornful dendnciation of certain ignomant and whend.
 but no names or localitie given, sompewat less of taid and temper ate statement than we might expect th find in a phain aqument ape






 nesel without iagure th the fert.


 fair dednetion that. of the ereat manine of horex ammally ront

 Cine tisum- will -lon



 and tifteriwht home torty ocren are tron


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Tharemat an the Pont Hophitai will -uther varty wow tom bat homethe than
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 tion of them

ハ: alry with: twal of whe whole wamber. only wne - that call. hy:atystretch
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 have hern exhlemmed in here. whly whe - lex- thatl We. What all allower!



 - harrloniner pores.. -
 ज1 the Wi.at Indices. mas is mont meroled



## PROFESSIONAL NOTES.

## AFINE TROOP.

Among the finest equiped and beft organized cacel re trap-in the National Guad is the First Cleveland Troop, of Cle elamd. Whin. The following are extracts from the rephrt mander the inforetine riti cers of the Ohio National Guard about this tronp:
. The troop aims to hare a member thip of sixty enlis ed ment.and that number is about full. The member are all voung men it the highest social station and unlimited wealth, who suare po trouble or expense to make the organdation perfat. They own apine bailition and a large number of admle horses all well broken in (he militaly style of riding. To help pay expensys the trop matiotain a tirt class ridius school in their puilding. widh is patronized , y the berter class of society. The tropphorses are therefore continna ly paticen and are therefore in excellent shape for chose manenver ng.
 fate of West loont and a former ofticer of the Fourth $V_{i}$. Artillery He is a splendid disciplinatian. and handles his commadnd in at cix. cellent inanmer. The drill an performed by the trop wal ahmon pur fect. Every tronper had bis mome oell in hame. Al equipment were in the best of order.

This troop is certainlya molel military organizatign. and i the only cavalry troop in the ohio National tiatard.

## THE LANQE

The lance can by no neans be considered a diveadicel weaporn lately resumed; for, with but few exceptions. it has hell the atr," blanche of a fair proportion of the cavalry of mont of the Europeath armies since the beginninar the cent dry.

At the present time:-





The lance wan alwhele in Frame atto the war of 1-in-il and

 in 1- 4.
 the quastion of the armament of the eavalde and atter invertiration
 the adoption of the lance tor the entime Prutian avalry. The rejert of the comminion was eent thall the catury reximent the all ex presion of the views and wisho. of the otheres. therefimeth- of
 "wn an imperial decree was promitsal al. direring the entire



 sather and carline.
 tirle due to

 with, it.





It inclament that the momal effert mat mon ravalry armed with

 rithes will be more pewertal that heretoto

Althom the term of arriee with the forn in why thre sear-
 Mavalry shliter in the ure of all his arms. an acotat of his amelatability to diacigline and the themurlmes of hiv instraetion

Cavalry ammed with a magazine carbine for the di-mounted embat. is mow convider artorn: and may executerostratergal and
allol thoroushly trained
 - (o) Neprod upell mantry
 to only when the conditions are -uch that a momitel athack is im.




 athe the low of omparatively tew men phate the avalle how if


In the dismounten fombat ame momited
 as the case may he a caibable for the tisht.

Athough a great magioty of the oftiere farom the lapee the num ber of its opponents is by means－mall：the latter of phe to it on the ground that it is unsuitable tion hath cavalre．consither of anall men and horses．tor the service of exphration and serelrity athl tom skirnishing：and the chatm that it hauld anly has sivet th the lile cavalry．beavily manned and horsed the lank tantio．



 the latter．




 the stuly of the German chealry

 length．

 are taken：






 sill case of the hatornt．



 and converting the same inter hragoond
 follows

1 The neressity oi armine the entire（asalry with carbine：
2．The impossitility of thorgughly training the ravalry in the use ni the lance and carbine on account of the short strive with the color

Inability to levise a mothol tor carying the laner withont injury ． the withers of the horse，and efoeswe batighe the then ot the rimper．

4．The probability that capalry will rartly atack infantry in future wars
i．The inferiority of the lance to the sifuer in the m lie．

 operation－in a womed comatry

The lamer regiment of Franer hate enionen a brillant but
 the were suppowed in 1－15：hat he had herome on remwerd





－rantion has arain ett in in tavor
 battle：a inthe X：and．．．nic wam：and la
 divi－inls．Were armal with the lance in

It in－urion that atter the lanme of o time．but at wine hat luall fairat in it



 the ene mally ankmwhensed avaly hand

－When demeral Masvoxtatere the
 ath ：uxiliary arm．he manifolel a ju taction－ihutantowhich alway－hat tw －howe Whether com－ineter trom a mate whether the show in ath：trompli－hed lanee is the whereigh weatun which d




 quick rowhtom and cherertic landme this realation．which is bern of antide superionty of armathent－uther hims－

 in the einares？Ta comelule the lather
 which thllow the－lonk，ite－upremane va
 the mini．e will mont frequontiveralt in
 front rathe tw hatak on theaten bhe enem Te must five the alne th the ratar rank
the lanco for the lime eats horemell oth the tield of rear melve rextments．of －the indepelliont ratralrs lie tront lank
litu＇ll vears．durine wiach


The labur are lhoronirhly
 1 what heren in－pired hy
 W．q1
ar－of He Empire．Mentared the avalley atul the atber ＂ग川remation m monlern thal ：and anigue phasい．the i：a or bural point of vicus $0 \cdot$ of metely a threat，the inles the vicury It two
 lime uf thrartibse we：puns． bil the ment fite retuhing ruld hositate ur tura hatels a：alle ot the othur．whose lerender the vintury．But
 －int coplal．Thい latue is， ate torme in the elo－mys hertine at of lathe－lawerend promimentr the arm for marally．Inthe－stroxerabe －hese and inl the conlfusion rrascilic atm Jlehomet

 alld prp：are thr victury

day the generally acknowledged motution ot thiv quest dipe adrocated by Jomsithimself. attier the clowe ot the wars. The armament ant orratization of cavaler. he been the subject ot much controwerg bat the whene drote. hate be reduced to a few simple truthes. The lame is undbube edly the best otfensive weapon for line cavalry which can strite an enems
 who ir pireres rank or reserve armed with the salnely for this weapon handle in the midee, when the ranks are no longer unit d

 overwhelm everything it mposes. Thu* delegatims the servien of exploration and security to the light caralre. the illuntripu- tartionan adrocates the lance for the front rank of the enimand an and dra abous $\% \% \%$ - But in pite of erers aremment one fact atome is atthent to decile the sutricen thecto lance. This solves the proplem.
 to them. But this question involves a - till more impontat comen.
 quimements. the abstract indeal. is insumeiont to warand it- - benta

 the motive the retis,", detre of the lande-a weapm whirh impliathe aboolute oftemsive, the batack in "pmpact lines. in a worl that cobesion in the eharge whidh is the keg-note of all mond an heroricof attack. Molern cavaly will thus dre armed with to bow re doubtable weapons-the liqnee and the carline-the folmer for the shock. the latter for fire combat and its prow and-phe of action


 to ereneral results. The catbine will he aned exceptioualy and per hatw tu great alvantage, ktill the white weapon ahohe an giw lecisire pesalts.

The new French manal for the emplogment of the Gume a lit the rolume of twelve pagent approved be the Minister of War it 1sse. rives official sanction th the tollowing nentemes which hate heen
 lance is the arme blanche of the greatese moral vahne and fan intli. most murderous wounts. * * \% It- lengeth uffers apecial and vantages to the trooper whokan reach lis adrersary armad with tha saber. while the latter cannot strike back: he hav io we fk sile like the sabreur. his let side being quite as spong as his righ The lance is preeminently the arm for the pursuit. $\%$ \% I order that the lanee may retain all it advantage in the hand 1 , hand combat. the lancers must scatter.'

In Austria-Hungary the hance was abolished hy imperifa decree is 1sst, upon the recommendation of the frehuke Athert, and car
binco were distributed to the thans. In that rear the new laws of national defence male military service promal and universal. and reduced the term of service with the color to three years: and it was thourht to he imposibe whorenghte ipstret the lancere in the use of three arms in so short a time. The Mpression of the lance

 the lathee to the (hall rewiments is aid the mater has heen reterend to the aromphishet werne of the lance to the bhan restment - could be



 dered neereary be the experience of the lakt wat

One of theip recommendations revile in the transformation of the bancers and hasars of the line int if:rons, imperial derree
 divisions the dixapearane of the latere form the amament of the exalar warary, and the retention of the fane hy the fromt rank of He Dha (b) atck reriment-

The primepal reamon alleged for the aby lition of the lance in the
 arvice with the ablers te permit of the thangag inatraction of the faell in the nee of three arme.

As revarts the armament of the lownds, opinions were very -andictinge hut the commision timally de ifled tor romment the lane tor the fromt rank only hasing this coplusion umon the follow its arsument-: If the troupere of loth paks are armed with the lamee onc of two thing will happen in the eharpe at the moment when the storek taker phace: the front rank man will either heare his lance in the lome of his alsereare ore failfor in this, his lance will be parred by the saber and he will fimb hifuelf virtablly disarmed in the melne: and the same thing will hal wen with the men of the wond rank. But it the lance he wiven to flae trout rank only and hae satere te the resur rank. the latter will he able to come to the red - he ot their rile leaters in the mibere
 satins of a lone line of alternate lances and saber- will he able to
 hook. the saber ther the mele

On the other hamb the short periond nt service of the Cossack with the colors dee not permit of their thot push instruction as han -r sand hasoms. It we tabe into eonsile dation the fact that they mat also receive some practical instruction in elementary tield forlification and gur drill. it would rem to he better not to attempt too mach, hat to tre to derelop thone thinge fir which each man hate some
special aptitude．All the troopers．it is true．shouly reverive the
 what they are best sulten the the men internted for the tront rall shonld be perfected in the fase of the＂pmes ，h．， rear rank should he more secially quathed tior dismonfuted monhat

 troopers who carry it．It would ler．hher dealared，a fal imblation


 versary in a hathe to hamd vomonoter．

In contrast to thi－view．the eommis－inn eited the wample we the French cavalry who havtented to abanlan hat lande ator the wat ot 1ダいージ：

Finally they derlared that．．if this weapon hav maide di－alvantat ges in the melee dismonntel combat and ont
 important part on the fiefl of hathe．．．．perially when it in rabras－ bered that the tactioal regulations of all the atmice ot foump witho
 fiedel of batle．
 have tried conclusiom wigh our wote mon minhiner

In the Russian cavily hrill redutatome the pridriph in hain
 that he is to fiefte on fond anly when ho athantry
 or the callure of a wool．rillage or haldinat．


 tion．





 three humitred pates in rehar．
 three sotnias and the sedent ot two the latter heine fatwh ly


尸ROFENSMONAL NPTES．
CAVALRY.

In the Mififate Whene whate of $A$ pril wappars a discussion of the rible of cavalry．in the lisht of eccent experiments and triats of the －mall caliher rifte．While a study of resplts will afford matter for arious rettection it must be rememberel that the caralry of the nation where thece experiments took plach is at this day arned with boh steel，apparently ready and earer to try conclusions at close quarters．The writer says：

If the cavalry ride directly against he fromt of infantry in position and the groum afford no cover it will receive shots at a much irvater distance than hefore：for the dangerous space of an object six feet in heicht is bow over sy vards and the zone of Hertive tire has been extented from 3.3 to orer 1100 yarda Theretore it is more than erer impertant that this zone be crossed at the greatest possible speed．

The inereased penetration of the bullet of the wew weapon makes it proballe that a single popectile may wable the front rank man of his horse and the rear rank file as well．

Hence it is probable that the tirst line at least，of the attacking Mavalry，will he 1 m divere． 1 order．and thet its duty will not be to hreak and rick iown the enemy．hut rathert that of arawing his fire， pene rating his positime and pieventing hon trom delivering a calm and deliberate fire upon the lines following in clowe order．For this purpose one platom in a squatron may pe haps be sufficient．

Passing bow to the divtance betwen atheking limes of catry it hecomes evident that the present $1: 10$ yards must be increased．It －phain that this secomd line should ride at fuch a distance that shot－ fired with a proper elevation．which miss the first line conld not at tain the secoma．Placing the distance hatween lines at over－Don rards．the shots which pase througip raps fo the first hine will hary themoelwe in the ground hefore reaching the secomi，white the serond be will only the reached hy shots which has several feet abowe the rime．Thic rule will apply to any lines foll，wing the vecond，the de lay in delivering an attack being incroased a few secondo in each case．

It is apparent that the almost inviable whoke and the feeble report． as well as other new and superion qualities of the new rithe．will have ：he effiect of rendering the reconnoiterins futy ot atwalry extremely
 tion hehd by the enemy．

And get it must he attempted and acemplishen under all cir－ umatames．for it will he impersille for a＂pmander to form phans antil the has reliable information about the enems

Let us see what lesonts in pecommoteriqg duty can be obtained Ar the cavalry from the latest experiences aarksman ought to hit a single horseman a stationary position．within this distance inoble prit，is not therefore to be thought o

At present an expert Very time at 650 gards； rom a hostile patrol，or

It is also determined
that objects of some leeight may be fired at with fair suctets at rathers between biso and 11010 yards. so that a halt. eren at this distanee. should be aroided. it it expose the patrol th the fire of the enemy detached marksmen.

Sow, a distance of 1100 yards is too great to permit th. naked eye to form even a molerately reliable iden of the extent and strengeth of a position which affords yover for the ememys markinen: such a reconnoissance could only be made with a good glase

Since every caralry patrol will, at times, tind itvelf compelled tw obtain aceurate information of an infantry powition, anther expe dient must be sought. and we find it in rapidity of morement.

Although the trajectory of the ne ritte is excesolvely flat at short ranges, nevertheless at the longer raqgen it is consider: bly equred. Between 750 and 975 yardk, the dangerous - pate varite botween fitty fire and one hundred yards.

There can be but littlefrisk then. ff we require a single eavalis man. attempting to reconhoiter an intantry fosition. t gallop from a distance of 1101 to 650 yames We will wow try to find out what he has to do whe

Hore at :
lue retaher
 If the grommi has any covedr. such as hollows hillocks. endomkments sunken roads or builigest the seout fill as a matter ot courec. try to profit by them.

In doing so. if he has bo approach still nearer th the enemy. he will do well not to ride stralight towards him. but in an oldique diree tion or with a circuitous courne for. with an elevation of ifon yard and a target six feet in hetght, the dapgerous spare is $15 y$ yards athed. with $\overline{5} 50$ vards elevation. the contire trajectory turms a dangerouspace. It the scout rides in a direction perpendicular if the enems lee will, therefore be as ealsy to hit as if he wore stamdinsentill.

For the cover to be of ralue, it shduld be strunge enolgh to with stand a bullet and high enough to cedmpletely eover a forne. The rider can whelter himself bly leaning forward on the horees neck. The requisites of cover hare been nuch increased by the revater penetration of the new bullet. Wood to be atfertive siquald he not less than eighteen inches thick. and thin walls are worse fhan uselew on account of splinters.

Earthworks must be at least two alnd one-half feet tlick. If nu suitable cover is to be found, the rider must ride obliguely alonir the enemy front, and at a distance of from ino to tion fards llipace should be the gallop. In riding in this way he will indered present a considerable surface to the enemys fire but has rapid and uvcertain movements will prevent anf very great aceunacy of aim

It will not be uninteresting to at empt to discover how far. it such a case, the marksman should hold in front of his farget to -.. cure a hit. The velocity of the bullet. twenty-five yards in front of the muzzle, is about b70 yards: hence it will require about ont second to pass orer the distance in question. \$50 to 6.5l yards. The rate 11 speed of a galloping horse is about 431 yards per minute or twenty
one feer per secomil. If the markman nim directly at the horse, the luller will therefore pass about one and one-half horses lengthe behimd the animals tail. and he ought. in prder to hit the mark, to hokd alwat wo horse sengths or sixteen feet in tront of him. If the rider
 man ousht fo increase his interval by a hout fire teet. If the range he about fifty yame longer. be must hod about wo teet tarther to the tiont.

Fiver exprienced hamer will remomber how differt it used to he for him to hold far enough in fiont fíame rumbing quartering away trom him. dn infantry molier. who has lnen instructed in firing at none but stationary iargets, " 11 have great diffeculty in ser curing a hit umler the cireumsiancer fupposed Mis task will be lighter. however. it there be several other at short distances : for example. alout two horsés lengela- will be strock

It in mot at all neeresary tor the ase ta rifle son meta the encsuy: it will be while the others rematin atut at ethertive tife fire himselt:

If the pasition in question he but tor tempt to rille aroumb oue fank of it at a or ta pelletrate through a qap in comber

 cable. When not prevented by the etwemy wavalry parols: for the hostile intantry will. an a rule remain eonequled hehind the cover of the pasition watil the direction of their aplabent's alvamee is perfectly apparent. amb the proitionitselt will unt then, he behl hy only a tew alvanced companies.

In regard to the aretion of a patrol wh frise and fired upon. the foregoing dincus the trospers mast mot wheel about and rid
 of the enemys tire. Ther mast in this wat quirk reonnalasance in order to awoid aumthe ailwane eomplete their enemy - fire will almost aluay le the prule. cren in a moderately Home conntry for concealed sentinels or matismen are hard to dis. pover at tion yards ilistance if ther do not fire: still less. if they are rarefully concealed with a view to deconging the patrol within the bange of effective tire. It in. therefore a inolutely necemary that the tronpers ot a patrol do not ride in a boly hut always at considerable intervals.

It is indispensably necessary that thoroughly comprehend the action and weapon and comprehend the action amd dapabilities of the infantry eng and shonlin know how to act when opposed to it. But it is fust as neressary that the rulen that are laid down for this purpose - lomuld he accurately followed in all peace pameurers, else the trooper, in time of need. will not be found equal th the task assignerto him. It cannot he concealed that, in future wats caralry will timits diff.
culties and dangers much incteased on screening and recontwitering duty，and that the demands which will be maile on both man and horse will be of the greatest．

The trooper，as be careers at speed along the enems tiring line，should endeavor，in a rety few seconds，to obtain a vifw of the enemy＇s strength and position；at the same time he mant keep a wars eve on the ground，for a halt at an impasable ohstacle mirht at snch time，have serious results，The powers of the horse might，at sach a ghost．After a hard rile，sevgral mile in length，he must still have strength and wind for a hafll galling across country；he must takejeveryobstacle he meet－withont satek－ ening speed，and tinally must bear his mater and his important in－ elligence to the camp．It is hoped that the unwearied depotion ot the cavalry will enable it to satisfy the demambs wheh the fimprove－ ments in firearms have so materially increased．

R．II．W．

## FIRST AIDS TO TIF WOUNUFD

The number of killed on the battle－field in molern war，nay sately be put at one in every fortynine combatants，aml the number of wounded at seven times as many．

Taking into consideration the great distames from the tightins line to the points where the fidd ambulanees can be establifhed．atm also the small amonnt of tran－portation that can be allowey for fielid hospitals，it becomes jmperative that the soldier shall be prepared tw dress and care for his own wounds or those of his commidley in sheh dress and care for his own wounds or those of his combindey in sum
a way as to escape the evil donsequencek of debay in profesional a way as to
treatment．

Sow，verenty－four per cent．of all woundy are to be fouph in the arm or leg，hand or foot．The sollier cat give valuable tift aid in all these conses ami，therefore，this alone will be sutficient ramon for his careful instruction fu ading the woumled．

These first aids are treated of under three heads：lst．Tympurars support to prevent motion among parts of tractured hones．2il Checking of bemorrbages．\＄al．Immediate antiveptic dressinir of wounds．

Tnder the first head，we have only to do with the fracture of the leg or thigh，though it will be well to staport any fractuge it time allow．It is rery dangerous to carry thd patient to the rear with． out supporting the member，as hot only doas the rasping of the breswen bone draw upon his remaining serength and increase infammation． but the ragged splinters may pierce the win and let in the air－the worst enemy of wounds．

For this support，we require two splints＿ritlea，sword of bayonet scabbards，boards from a biscult box or sticks ot wool．sone kimd oi padding to protect the limb from shocke and the pressure of the rude splints and，lastly，ties to fasten the splints in place．

Now stretch the limb into \＆straight line，if posvible，though this will be rectified later．Then－roll in either end of an overont or
shelter tent a rifte and a wabland lay the limb in the eradle between the splints thas coshinmed amd strap eskervohins firm with five or six handierelitefs．or as many straps take from equipments

The arrest of hemorrhage aims at ：still more immediate danger where each secomb counts．when death is at the door．

The arterial hemorrhage with its hrifht scarlethood jettingout as thourh pumpead hy a piston at each pulfation of the heart，is the only sue to be consillered

The artery．like a robber pipe can be chomel lay compresing it
 done mast of enorse be known－the indide of the thigh and of the
 good－ized proble smewhat fiatterted．This pedible is molled in the midhle ut the hamikerehiet whone two free cormers are then passed aroumd the limb and tiorhty tied on the outsille．the arteries always
 tected from acerilents

The pebble lexing large enomat to permit an error of an inch or so in lowation．the compresion shomblalwe be eftective if the latmage be twisted sutferentle tight．The sucece of the compression can fie hetermined hy the suppresion and ret orn of the pul－e as the pres－ shere is increased or relaxed．

3．Immertiate Antiseptic Diossing ef houmds，－The packet．which the soldier cambes for the purponec．conside of a syuare of masin and a hit of wahling．hoth impregnated with bichloride of mereury and wraped in a piece nt parchment paper．The mustin is applied on the wound．destroving the germs which may he there The wad． ding is placed upon this to jrevent the forrinion of grems from the air：amd orer all the barchment paper if tiod ly the aid of a hamel－
 Militrire．

F．S．F．

## 

Conler this title a eronal troop of catalry has heren organized at
 tate．It has sartent into life under wry fattering anapicen its commander．lohonel A．I．I3Resesp．being an otticer of reveral years experience in the German llussars．an erfthasiastic cavalryman and a cultured centleman of wide experienge in military atfairs．We have no douht that，umder his command．with a eheerful sulmmission to the demame ot a rational dineipling．amd．above all，inspired by an honest desire to fit themselves tif emulate，should oceasion iffere．the gallant deeds of the Ohio cavialry regiments whose stand－ ards wated so prourly upon many a hatil－fought fied during our －reat war．the River（ity Drageons will．in the near future，be estermed a valuable and homored additen to the Ohio National Ginarl．
c．C．C．Carr．

## DISCUSSION AND CRITICISM.

## REVOLVERA AYD REVOLYER PRACTICR

Our experience has proved that neither of the refolvers now furnished is suitable for the cavalry sdrvice. Their le herth make them unnecessarily heary apd clumsy, while a shorter mapon is iu-t as accurate for all practical pirposes, ofthin the distange at wheh pistols should be used.

The handle of the pisto mast be made to confirm as closely th the hand as possible; if corrugations ware cut for the tind ene ereater accuracy would be obtainedfor the reason that. in "nab shooting. the result depends entirely on the rewnler being alway- fheh in the same position in the hani. The stocks found on the inet monde nt revolvers more nearly fulfill the requirdments that thin of any of the old single action weapons. Concerning single and dquble action revolvers there is little difference of ondion as to the merits of the two for dismonted work. An infanteman should cary a -imph action revolver with a very lygt tigger pall: tor mometoi work. the double action weapon shomat be nsed. There is whe iffert in the present hammerlevs revolventwheh will pontpone its athplion ; if the cartridge happens to be a dritle too thick at thi. hame. flie friation against the recoil plate remdes it imporible to rewne be colinder
 the foretinger is not strong quough to orercome the nectany rosis tance when the revolver begomen fouled whereas, with the strugth bo the thumb and the assistance of the hammer. the pistol anan alway be cocked.

Nevertheless, with prope discipline there is nu raspo why the
 nen. There is altogether top much objection the efticiont vapons b. idefficient ofticers whose prideipal objection is that the - hen cambit Le made to understand aml take proper are of compliant at and delifate arms. There is ample means at hamb to make them whler. stand and care for them, and it is sad to see such phenfle reanoliblocking every attempt at inp provement.

The hammerleser reolver is be tar the least damerou-one in the ranks. A short time ago a sodier of mpresiment. in leadime down to drink, was killed by his derolver slipping from the finture ally having the hammer strike a fock, -thi-kind of aceident - mot rare

For safety it is not well to leave a chandber empty, for when one needs a revolver he needs all six lods: fad the same satety may be procured by letting the hammer down between the cartridges. In arder that a proper weapon may be obtaded. the Ordannce Depart. ment shonh issue revolvers for experimental purposiatouthicers; and at competitions, officers should be allowed to ase any revolver. firing -ix shote, usinst the regulation ehatree. In this way. eomparisons could be made and we could keep ourseltes informed ot all improvements that are being made

The pistol shoulal never be fired from a rased position, unles it be reduired to tire a volley. to the romt. in close order.

The preparatory position of the revoper shond always be with the revolverinthe holster. The mem shamblatatughtohraw quiekly, and. while holding the barred downward on the gemeral direction to. wam which the fire is to be delivered. to ende. rave and nere: and they shond be sodrilled until it heoomesa -e.ond nature. Ninety per cent ot all adecilents amb all the pour revolvet shonting that is done are



 war prosent allowanter ot amombition.

The-linmontiterl pratetice is perfectly
 than his carbione it is time amb ammonit
 meceosity for the manh havimes aty weatme font. and he slould therl he as lirhtre loat

The presemp pi-ind honstor is ridientous

 le worn loovely tor combiort abl then the the hame will ra:a-l it. There shomh he a the muzale of the homiver, bucklime it to the
 tw eut down the barrel. to tarilitate quin woight. Wis shalal hy all mean-retan on increan slishty the weight ot the hallet.


 ment.
 dollars fer man shombly bellowed in andit on to the former allowance ot round hallets, which are very enom for prediminary practice

The tiring shomlal be tirst from the hal, then at a walk, at a trot,
 arit ot the horse and does not require the mein to learin to uee the


Firing to the front is most necestary and no pain. should be spared to teach the men do fire in this direction. A. for makin! horses gun-shr, or burning them with powder. these are matters that again depend upon the discipline of the organization and preparatory training. The revolrer. properly fired to the fron will never be as near the horse's ears as is the muzzle of the corbin in mountel firing. And right here it would be interesting to Enow the objent in having men use their carbines from the sadille: it seens a mist ut. having men use their carhines
necessary waste of ammulition.

In firing to the front the tirst shot is nearly always throw away The trooper should be allowed to shont "at will" whily adrancing on the target, and he should be made to charge on a line perpendicu. lar to the line of targets. I have nerer experienced and trouble in firing in this manner and. where one shot will be nefled atrain-t an enemy on a Hank. tifty will be needed to the front. The shooting of horses and the accidental discharge of pistols are lest argumentagainst the pistol or its manipulation than evilenced of lack of training. The guardhousi is a most necosary ansiliary in tearloing the use of the pistol.

If we had less paper work, reports. figures of merit. Atc., it would be a relief. Conscientious otficers interested in their work, areonly hampered by artificial adjuncts and the work accomplided and the experience gained by them is of tion more value to the fervice than that which the reports force upon the imones wha go through their duty in a perfunctory manner. There is great reason for anking why the revolver competitors are selected from the men fent whirn at carbine competitions.-as well send the later to a focing tome nament. The revolver conpetitors should by all mean be selecten for their proficiency with the reworer and ofticers of eq ralrs. lish: artillere and staff eorps should be particularly encour: ged he thimeans. The practice of officers competing at any timb with thein ment is unfair to the latter. It is not mell to place offer- wn a official equality with their men at ant time: it is dequmental t. discipline and it is quite time to break ap the secialistid tendenciothat seem to be gaining ground in our service. The rerolver anm petition as at present conducted is not a thorough ted. No ditance below twenty yards should be ridden. and at hast twels. -rounds should be fired in carll direction.

A discussion as to the relhtive ralue of revolver and sider will hun now be attempted. Both weapons are indispensable. eact within it proper sphere. On any ground, horsps and men beints equal in strength and training, with plenty of rom avalathe tion pen order the pistol will prevail over saber or hance-in fact onf man with plenty of room ought to kill or wound at least threc men frmed with lance or saber. When carntry charges in compact musses or it defiles when they must get through and cannot deploy. ir on canse ways over marshes, sabers will be wanted to push hach an enomy. Revolvers would not be used under such circumstances.

At present. there are vety few of our troopers capable of usinte either weapon. The reasons generally: adranced for die lack it
practice are not conclusire, fir with all the complaints of "detailed men there is ten times more time throw away than used. There seems to be a fear that it the men are made to return the amount of hours in work. that ther are paid for, that fhey will desert or will tht reenlist, or at any rate that it will be disatreeable to them. Learing aside the men, why at least are our obtigers so deticient in the use of their arms?

We have numbers of men who wear hadees of sharpshooters and even medals: but we all kiow that besilf them are men who. for rqual efficience the country paty hat thirt fen dollars a month. An ofticer should be able above all eloe to use 中he weamens ot an otticer. -not that he should be a tencing mater or pistol "shary" alone. but when one sees the number of phesicaly incapable otticers and knows that the reason tor their heing of frequently aries trom canser not incedent to their hard wervere 中ue sighe fio such men as
 tive veats ot age able to compere with his foungest otticer in phys. ical conterts

Pow HATAS HI. CIABKI;
THE CAVALIV IN MERICO.
In the Jocrsal of March. apeaking of Gemeral Mames. thim -rntencedernes: $-A$-a result. we see Hary small force of tinur companies from his thred regiment- to charge the Belen Gate "ity of Mexien. Xow, the the sate, there was not one mounted ohder nearer than trom twa to tree miles of the . Belen diate" when it was ehateed and taken. on the 13 th of september. 1nti. General harvery on that dane wa- at least four mile away by the ment practicable route at "IIxcoac the newly wablinthed Lepot for the army. He had with him at the depere all the cavalry. -xeept that under the command of Major siposer. who whe with his command attached to and eerving with Geperal Worth: Division. which wan moving towards the new Cosme wad and gate and he enford the city by that gate. Maor somer command comsinted of ix companies if the second lragonns, ond company of the First brageons, amb one company of the regiment of Monited Rittemen. ath was at least thre miles from the Belen Gate when it was taken "W the eight companies of the regiment of Monted Rithemen. .inter. mingled with the South Garolima Volunteets." There eiplit com:anies of the Monnted Riflemen were dismonted in consequence of the low of their horses in the dulf of Mexico: and the served on fiot :" General P. F. Smithe Brigade. Twige D) rision, from Vera (ruz ". the capture of the City of Mexico. Of carse. other troops were ©ilowing the Rifles and the South Carolin\& Volunters along the aureway on each side of the aqueduct to the Belen Gate: but these wor regiments led and were the tiret at the wate and there way not mounted soldier in sight: eren the smas lefing served br c'aptain !hem. assisted by Lientenants lemjamis and Porter, were bandled
without the assistance of horses. Captain Intamand I dentenam Ben
 commanding the eight coppanies of phounted Riftemen. Wost hix arm about the same time and place.

When it is understood that the cabseway. leading fom 'hapult. pec to the city through the Belen Ginte. is Hanked to the right ant left by swampy ground under water - in swme plates f mpasiable ti,: foot troons even, and that there is an aquelant in the mithle of th. causeway on elevated arches and that the rowhay op each side of the aqueduct is hardly broad enoush ito acommonate facatry in (a) . umn of fours. it will at once be seen that it was bur phate for watry to operate to any good purpose againkt artillery hehind earth-workmuch less to charge the belen (rate. thich is mure thath a mile from Chapultepec; necessitating the marching of catralry th:at diatance... two closely shat-in roads directly tacine sums that completely wim manded both roads. It was theretory nitterly infowith. to chirger Belen (i)ntr with cmalry!

The trompengrad alons the anneway and at the Belen Gath were fresh from participhtine in the capime of (bh: pultepere ath
 Mas was in command of and up with the tront of the trow- on th. aqueduct. A writer on the Mexican W:ar. in 1-4! - ppke ot him. on

 cans sprane forward withe enfer impthonity, whtered the work all few minutes past one welbek in the attermion. and catured two.



 and by those still living. who were there.

General Harsers copmand at Mixoma in addition to hivea alry, consisted of the Twelth [ntantry mulur Lient nathtemen Bosinas. one company of the Thitd Ihfantry and onf company
 B. Jedor. [E. S. A. (retired) told me : wort time agen that he w.
 ammunition; and saw and heard Gemeral Harsey for a short tita

 on the flat roof of a honde. pergand in hand and whe wivins. pression to his feelings in his usalal foreible tyle. \& was in view of the castle and hill ot chapuldpere and cond bainly we. storming partica, and other trow is as the -lowly bat deadily de the Mexicans before them. and samblly tomed their tiy to the of the hidh, planted their hallers and entered the wotk- coln Jupp is a member of the church, and I wall wee he if not tell
 idea of the seene and entugh to contince any one who hal a rect estimate of Harney flamarter. that he womblhafe chaturni

Oempen th , harge the Belen, or ang ather gate, if he had been Ten an opmethity.
It is prohable that the writer of the artice on Marser had in his ind the charge male be the dragoons. mide Harser, on the after-
 ated at Churuhusw and were heing drisen oward the city through "S: An Antunio trate a mit the Belen (iate . as fiven a mall ehance tor lo, some work athbugraphy. - beak of it in this way "al wa- carriwh. the grater furtion of ree parad the brifge in rapid pursuit of t (ien then the eavalry Gieneral scott. in his "итн:s and lanaws all poreme hathaner, with a natharsed he enemy up to the nearest gith, The cavaly charge at healed be Copraii Keansey, ot the Fiof Iragoms. having in
 mim. The rallant aptain. not hearing recall that hatheen somoded.



 Mmand of the wort. had wo horees killed under him. Major $F$. i) Malse of the Fitteenth Latantre a volunt ger in this charge Was Laed at the rate" In a hi-ary ot the Mexian war. publianed in

 a- permite.ed to follow the enemy with a pati of hi- brigale up to


There were many sallant and hewie thiter dome her ome vall
 the realem of the Jorrata. Take. for fotamee the athair at



 Male , darines the battle and kept in eheek of times their number Mexinal lather. whe were thentening feneral Whatis lelt.




 antred her the mamber the inems they filled, or by their own
 (1) Wr, The rixht place. Gt course hat the Mexans been armed with - Enn of the prosent day hi- lithle lonly of cavalry would have


but, on account of the inferiority of the Mexican arths, many of t wounds received be the caralry wete from spent balls Any one wi ever knew Major scmane, either then or during the war of the 1 bellion, knows rery well that it wbuld have required a very - lif hint from the commanding general, or any other companding otfic to have caused Sumer to attempt the charge of thy hill of chap tepec itself; and the officers and men of his command would has followed him without question, taking it for gramted there was som good to be accomplished.

I will give another instance of the good conduct and etticienty cavalry in Mexico, althdugh, as on all previous occasions, the tin was very small. In September 1847. General Jafriph Lase 1 , Vera Cruz with reinforcements for ou: army in the interior Mexico, but more especially to relieve Colonel chillos, who w being hard pressed at Pueblo. General Laves ithole comman amounted to about $\mathbf{3 , 3 0 0}$ men. On reaching Perote he learned tin: there was a large force of Mexicans enncentrating in hif front : and. reaching a point betwee Perote and Pueblo on the 4 th of Oether. ascertained that this forde of Mexicans was at the cit of Muamam which place is a little gast of the Ditional road. (eneral Lave once went into camp, drganized, and took command of a party about $\underline{\underline{y}}, 000$ men. leaving the remainder to guard hi. camp, of 2.000 men with General Lave. there were four compentes of cavalr under command of Captaiu Walkez, amounting peqhape to ?ow 300 men. On arriving within thee miles of Inamantla. dientr: Lave ordered Captain Walker to thore some distange in adraner. the command with his cavalry. hut to be careful not d go beyoul: reach of support from the main bolp. Alout the sime time a larbody of Mexican caralry (some tho thousand, was seen rabia approaching the city, on a road parallel to that bedne travele i our troops. It is moredthan probable that the rapality of (api. Waleer's march mas ipereased in order to reach the city het thie body of Mexican cayalry: at ant rate he was soo far in adral of the main column of our troops. and ont of reach of fimmediate. port should he need it, anit he soon dhd need it rers moch. Howe he entered the city rapidly and at quce made his wat to the $\mathrm{l}^{2} \mathrm{i}$ Here be found a party of about fite hundred Mexifans with th: pieces of artillery. Without a moment's hesitation. he mate a di at them with his men, drove them off and took their gunbeing too eager in the pursuit, and probably allonfins hin mon scatter, he was very roughly handld before the othep trops. us: General Lane came up. Captain Whleer waskilled: Thisinci: affords a good example of the advaptage of cavalry when skif: used at the right moment and place This da-h of a very amali bold body of horsemen was tar reaghiniz in le- eftery. In the place, it was the brginning of the defeat of the Meximans her fic:
 for our supplies from Gerad ruz tolpueboome the fity of II and the speedy reliet or Colonel Chllds at lueblo.
W. B. IASE.


## BOOK NOTICES AND EA氏HANGES.

Catechism on ('atal.ry Ottposts. Reconshirsance. and Aivance and Rear dilaris. By E. A. Giarlington. First Lieutenant. Seventh C. S. Caralry. Seventy-tive pares, Plates and Complete Irmex. $1 \times 0 \pi$
Leutenant Garlingron's Catechism on Caraby Outposts supplies teticiency long felt to exist by the progrespre officers of the cat y Heretofore afficers lesiring to instruct their men in outpost I reconnoitering luties either had to prepard a course of lectures on se subjects or else make a compilation fros different foreign text whs. Fither method involved a great deal df labor which deterved except the most energetic. from attemptind ant sistematic course instruction. Added to this were the lack if uniformite in details, $\because$ hich the different methods followed and the particular fads of each . ifiner. entailed.

Lieutenant Garlington. by giving us an excellent compilation tinn the best modern works and adapting the whole to our regulatons and drill. bas conferved a great boon updn the service

Some of the details of the work will have to be revised when the S.w Irill Reguhations are publiwhed. One fuggestion for such a ษivon woulil he to have the vedetes and adyanced soonts take the sition of Lower Pistol. as prescribed in Pir. 171. Cavalry Drill li eulations.instead of ADvasce Carbase. The position of Lower fisrol would be less fatiguing to the trooper render him less con-- birnous during the day, and enable him to defend himself more effec. i:wly if suddenly attacked and to trive the alam more puickly.
W. H. S

It ary Donge. (olonet. First Dragonse
Runninge thromph recent numbers of the Mua Historical Record. : I not vet eompleted. is a biography of Genedal Henry Dodge, the :" $\boldsymbol{t}$ colonel of the First llagmons. Governor of the original Perriof Wisconsin, and a man who heli many mportant stations in both as a soldier and as a civilian. He possessed. in a marked - ree the qualities necessary tomake him a fader of men. in such - ses of border wariare and adventure as those in which his lite was 1. .-al. An early portrait of the Gencral accompanies the sketch is rell as a very careful account of some of the early Indian wars of t) rentury in which be was a prominent actot

Proceedinas of the Cinted states Safal Institite. Report of Policy Board.
 Outline of a Manual of Infantry Drill. Development of Sibma rine Mines and Torpedaes. Artillory During the Redellino. Regimental Court of Honom. Practical Work time Intaters. It Military Situation in France.

No. Alexander the Greats Invasion of Imbia. The Suhai Combly Opinione on the Supply of Remomes. Cavalry Forpations. Pr
 18ci. Military Defense of the Empire.

Proceeding of the Rovill Arthlebi Instititins.
-hlume XVI
-
Practice of Gurrison Nrillery owen Sea Ranges
Nitartarn : R. I. A. Batterien with a kavalry livision. Mountail Wartare. : Ambela Campaign. Sound Velocity Appledto Range fionlines. Sol Notes on the Swism Artillery. Experfences at Okchanpion in 1 … The English Army in Flanders.

Revee Militaire Belge. April. Inio.
Constantinople and the Balkan Puninsula. Histort of the Sin. of Ostend. 'Theory of Aerostats. Instruction firr *ege Artill-: Recruits. Indirect siege and Fortrest Fire. Otficer it the lew... in Germany. Russian Charalry Drill Regulations. New Civat Drill Regulations in the l'nited states. Pointing Ifeary (ant. by Means of Electricity. Zalinski's Pnemmatic ('amon.

The United Service. Apriland Mak. 1sime.
Prince Hohenlohe on Field Artilldry. Nomenclat ure of our M. of War. A Night'\& Tragedy. The $\mathcal{H}$. $s$. Revenue (huter sever Chronicles of Carter Barracks. (iveat Commanders of Alodero Tin -"Marlborough." Xoteqon Xationd (iuard Staff Dugy. The Mi
 Pasha, "A Hero of the Soquian." A pomance of a Giot rument (in Surver. A California Poneer. Niational Guard tafetiona. T Trials of Staff Officers

The Illestrated Naval and Military Magazine. Ful. S. Non 16 and 17.
Epochs of the British Army. III: The Revolution. IV: M: borough. Great Commanders of Modern Times. III : Frederick: Great. Naval Warfare. The ('inque Ports. Two French Ailmir:: Funce Lefamtry Tactics. Tactical Lse of Mounted Infantry. Alsie an Old Story Retold. Compulsory Service for (ireat Britain. Ii sian Masters of Ordnance. Colonel Forde at Kondur The Am. can War. Smokeless Powder. The Georgian Ejoch of the Br:


 ans of the Meuare sted Armen Plates. laek on the Bhatanfrontion Winerat

So 1: Supplyng Arthery in:le Fiell. Moral Eduration of the - diere of the cavalryman orpecially. No. 1 German stuly ot
 Yand smokelow Powher Ku. 3: The fal Cowark-at Home



 Br. So 9: The Prepation of Field Areillere for War sten--raphy Exponare Sula: The (ierman Marine The hatian




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Midpafe - Womevimatt In:m

 ia port on the Italian drmy and the heraio of the clate of dans Li-marks on the Consolidation of Field Battelies. No : Ba: Smoke - Powder and Tactio- . comtimued. Rematks onthe Paper. - Fire lation of Fich Artillere." Cambor of a Fench Cavalry Ofticer AFfect of Fanting on the Heath of Ru-ian folderes. Nex Ration 1.r the Army of Chile Sew Healifear for al French Troopsexcept Malry So. 34: Centennial Juhilee of th Arehducal Recriment $\because$ Lragoons. So. 23 and ot the Field Artilletr Reximent. Sin
 -wimming civalry. No. 3.5: A Picture of Military Life Durmer the the of the War of Powitions and the Attack of the Latuterbure Dine bugut 14. 1712. Independent Patrols. Thoughts of an (Hh (ave FOfticer on our Cavalry Depons. So. 3 an Intluence of a Mish


- Mparison between the Russian Train and hone of other Armies.

Il mon's Amey and Sayy Lest. April. 1som
ife Sathosal Thabore. Weekly. Wathingon. W.

ale Spirit of the shtif. Weckly. New ondeans. La.
 ventell it-insertion umber the proper he: hines. Thebigh reputation
 it has beren determined en fobliah thin able review in this place
 protit of prousines it

## $6.6 .6 .6-$



 a criticiom upert our military literature whirle mats hear repelition.

In his opinion, there was atrat deaf in the way of tramhame



 cential mater printed tor the apparent plypue ot arrecting errors in the peraonal or resimental bivors of if hividualm or urganizations taking part in the war ot the rebellion, bat fleme nomed bobe a great lack of the material trom which the militas stalent might learn the principhes upen which we ated in the greqt question of the pacitication of our savare tribes west of the Miswuri, which could serve as




The importance ot the work acomplifined by war litele army in making civilization a possibility eomat not be over rated and mould wot be left to the nearcher through mouldy otficial reports in the latter halt of the next conturs. fut assumal now while noten and eremenda were sill areesible to the farticibants in the preat sirugerle

There has been a certain ammunt ot fork abraty dome in this lime amd among it may be mentioned sheh lopokan lumisis. Massarres of the Mountains.. and Frys. Army sactitices." borth excellent in their treatment of the subject. hut open th the objection mentioned aboe that the athory relied more upon oftial data than upon perabove .. Campagning with chook," by Captain Charles sonal whervation. "Campaigning with (qok, by Captain
king warles King was brightame entertaining, and shond have heen
by mone work of the ame kind from the ame author.

Finerty = book comew eloner io supplyi er the needed link in the - hatn of our frontier military history than any other with which I am acouatated: it is to all intente and purases a reproduction of the vivid and graphie letters whieh stamped 1 in as one of the mont ob-
servant critice who followid our expuditionim in the Bit Hurn atr.


The lite of our soldiers, their hardphips. privalions and daller-

 are allowed to speak for themsebes.
 I find that. influenced no doubt by the impulan ot the - froner trint:
 alluded to myself in several places in complimentary terms.ant much afatms my inclination. I retiath trom what. to feople mond
 stem like a reciprocation di courteries.
 cannot be reviewed. bat mast be reakl and Fincrtys ominent! ane of these It ahould the in erert post lihare that war rivine


 preserved and those who natie that hashry. hommed

Finerty criticized military movements treely and. In the main. in an able and julicions hataner: he cretatily tried to be tair anoi impartial and grot his tactif on the skitmish lime, wo that mo whe combi complain of his interemees no matter what thes might fe.
 down to Red cloud Agengy, when ofticers and men whetrampints without shelter and in rags. with a pitiless rain heatino down apori them by day and by night, with no food but the flesh hit our worl
 out hornes. Finerty never lost his invariable good humot. and was as full of tipht and enthusiasim at the finfos, at at the bergumer ot that dreadful campaign, whichy has no paralled in Imericanfor athy other military hintory.

I was looking orer my old note-hooks last erening. -under th. inspiration of Finerty's rolume. and fras surprised to spe how mall. of our brave and logal connrades of thone trviner dars bad joined the Great Majority: Crook, (rawford, Von Icuttewith JeKinney Munson, Meinhold, Fontet, Indrews. Burrousho, (ain Bache. Ma" Kenzie, Teddy Egan, Laitson. Tim Haker. Thornhurgl. Wells. Gim don,-but why lengthen the list? Some have gome ding $n$ by hollersome by disease and exhaustion. but all with unsullied recomes.

We, who are left, ean pledge a toast to their memorfes. and. I ath sure, all my old comrales will join me in waviny.. Hute's How " $\quad$." Finerty.

JoHS (8. F) HRKE.
(apthin. hird tirnalr"
upon the enemy strongly intrenched near Milfiord. Tho Luray Valley at this point contracts into a gorge. and the rough. inaccessilh. character of this mountainous region rendered the entrenched porition of the enemy an almost impregnable one. The road here crosea deep and unfordable mountain torrent. a tributary of the Shenan doah, and the bridge haring been destroyed. the enemy from behint well constructed earthworks on the opposite bank made a determined resistance to our further adrance. The greater portion of the finm. was dismounted and engaged the enemy on foot, while the artillery went vigorousiy to work shelling the position: but all semed to b. of no arail. The brigade was held in reserve well up to the fromt: it was in fact under fire much of the time, and had seremal men and horses disablel. During the afternoon the brigade compander. with sereral other officers, made a careful examination of the grount it, our front and the position the enemy, and all became comvinwi of the utter hopelessiness of any attempt tacarry it by firect attack We bad confidence however, that a why out of the lith-uly worl be found by a movement ardund one of fle thaks of the [enemy. alm) waited patiently to take instant alrantuge of any morencot indicat. ing a weakening or withdrawal of the force in war fromf: but a- the
 ing. The same steady rattle of carbine shots could be heard ont ha. - right and left with the occarional cheers of some portion of the libe. essaying an adrance, but the location of the lines rempined intit nately the same. Finally as the approach of evening seemed t. demand a movement of some sort or an acknowhentyent of detian. an order was received by Colonel Lowela to chatre with hi- brical. mounted, down the road and endeavor to carry the poition lis: direct attack.

The brigade was at this time behind the crent of : hill whind orerlooked the stream in ofur front, the whole face of the hill heine covered with a dense growth of timber and underbrush The rati led down the steep hill tonari the crdek. and at the foof of the hil. turned sharply to the left. The road twa here formed h, all exata tion from the side of the hill, with a precipitous wall of rock wh wh. side and the swift and deep mountain torrent on the other. Atror stretching along the stream in this manner for a huqurel yart or more, it abruptly terminated at the abutment of the barmai bridge. The enemy, from his entrendhmente on the opposite hamk of the creek, within short tifle range, commanded the whole of that portion of the road extending along the bank of the stream. A force, supposing it to hare reached the abutment of the destroy...l
bridge, would hare had no method of escape from the murderous fire of the enemy, and must have plunged int the swift and roaring torrent in the vain attempt to cross. or have retraced its steps back along the bank and up the hill. The bligade was mounted, sabers drawn. and we moved in coluran of fours into the road. As we started down the hill. the Rebel ganners. with fine aceuracy, dropped a couple of shells into the head of the column badly demoralizing the first set of fours. The requirements romane and poetry demand that at this juncture we should lave taken the gallop, and the eharge and riden with cheers colofs Hying, and blades tossed aloft. into the murderous culde-sar awaithor us.
"Though the soldier knew
some one had blundeled :"
But it would not have heen war, and coldnet Lowerd. appreciating the sitation. and prefering to save hif brigade tor future work. commanded instead. . Fours right atmut. and we returned to our pesition behind the hill.

In examination of the ground two lay later after the with. drawal of the enemy. fully justified this atetion. Had the brigade -harged when first directed to do an the 中re mast have heen frighttal. with momsibitity of any compensatipathatare. It wascertainly rery unfortunate that mo way cond be found of carrying or thanking this position. The hatte of Fi hers Hill was won on the aternom of the 2ed, and General sherpas in hiv report says: .. Itad General Torbert driven the force in his tront, or turned the detile and marched to Nermarket. I hate no douht that we would have captured the whole Rebel army.

On the $2 \cdot d$ we withdrew, leaving the enemy in posession, and marched back toward Front hoval. Soot atter daylight as the column wav moving sleepily along a mile or two from Front Royal, we were startled by shots and cheers in front and perceived the second Gavalry charging. while the ambulance train which preceded the advance of the column appeared to be in sonde contioxion. We at once went forward, at the gallop, to suppret the second, and joined in a lively chase after a band of Moshys gumpllas, who, seeing the amlulance train with onls a small escort indadsance. had thought it a food opportunity to secure an invoice of mules for Earmys army, and to supply themselves with clothing and the many other useful articles which a Yankee train usually affoded. But it is presumed they would have hesitated before underqaking this pleasant enter. prise had they known that two division of cavalry were close at hand. The pursuit was continued in eray direction after the dis-
persed band as long as a "grey coas" could be seen and then we ral. lied at Front Royal.

A number of Mosbry mon were killed and some ten or twelve taken prisoners. The Second lost a brave officer. Licufenant MrMasters who. in the excitement of the hase. became sep rated trom his men and was surrounded and captured by the . bushurhackers. After robbing him of his watch. mones and boots, they quelly and deliberately shot him through the bodf. These frets were le:arned from bis own lijs, he having been found by his men atter the pur suit was ended, and taken to Winchegter. where he lided several days. A few days before the battle of Winchester. seve :al men of Crster's brigade had been ce ptured andaruelly murdered by Mars men. The prisoners taken on this occakion were turned over to the provost guard at Front Royal: and, late in the day. sevefal of them were found hanging by the neck to trees near the fown. with placards attached to their feet setting forth that they had been ex... cuted in retaliation for the shooting of a Cnion otheer affer capture Camp talk at the time (whether truthfully or otherwio cannot lie stated) attributed these hapgings to the incensed compriles of the men of Cesters brigade who had similarly suttered a tevt days pre riously.

It will be acknowledged by all that the crimes of whifh Mosbr men were guilty were deserving of the severest punishoment: and yet these retaliatory measuges were extremely ill-adrisda. A few days later, Mosby's men hafing captuned a number of dismounted men who formed the escort to a traind en route to Harpers Ferry. they were required to draw ots that a number might be selected tin execution. The men so selefted were taken to the vicinit of Berryville, where several of the were pury to death. Fort mately the futility of retaliation as app, ied to the iuhuman acts of thepe guerillas became apparent to our people, and the punishment of their crimes was deferred to a more confenient seaspn.

The news of the battle of Fisher's 申ill having been feceived on the 23d, we, by a night markh, retraced our steps to Milford. found the strong position of the enemy abadoned, and pushing on. at about 2 P. M. of the $23 d$, en ¢ountered the enemy* cavalty near the town of Luray. The ralleyt at this point opens out into h comparatively smooth and level country, suitable for cavalry opedations. and by a determined attack we degained ouf self-respect which had been somewhat impaired by our repulse ay Millford. The Enemy was routed and only escaped destruction by a rapid retreat, qur pursuit being somewhat less rigoroes than usual. owing to the jaded condi-
tion of our horses from the incersant an oun days

On the e5th we reached Newmarke and finding ourselves in rear of our vietorious colmmens, pushed forwari, reaching IIarison. burg and the front the same day. Exples army. continuing its retreat, crosed the Blue Ridge leaving tim the time the Union tomes in undisturhed pussession of the alley. Mermitts division wasodered to Port Republic. and Gemeal Torbert with Wisws: division and the Renerve Brigade. tempentarily detached tin the purf"ore waynesboro via stamon. Wrers were ariven for the de--traction of the ratroad hilise acro- de south hiver at Waynes. lown and, in talling hack. for the burniter of all harn containing
 thine which cond embrinate to the sultivence of the contederate arme. This was in acendanee with tho (irase that thin tertile valley should mo depot tor the oneme.

Arriving at Waymelumo on the erth. and songle south
 was fomd in combilerable toree with ardllery in pexition. On the
 a mopectable obiminh line wan forment. hrisale in reserve near Waynehero. division wasemplay ind carrying out the of -upplies. A there weut to work at 1 the morning atme wrexted with it all day werthrow. It was a well constructed is -rhe of proper applances and willed w (t) demolinh it. The day war hrisht an whole mornina all rematined quict on th a tew thot, were exehanged with orme attempted at stealthy recomationance of th pomptly withlrew umon being discorered though the opinion was freely exprensed pmiste that we would hase our hatme full

It ahout 5 P. M.. without the slightert wamine our skirmish line was furiously attacked and driven in, and a fore of cavalry came Wharging down the road yelling an thourh the fate of the Contederacy depended upon the strength of theid lunge. The suambrons torming the immediate support to the sk rmish line were instantly in the saddle and, with sabers drawn, moded to the front, took the gallop and the charge to meet the mong force rapidly approaching.

Either because we made the more noife, or because ther did not like. our appearance, they would not permit us to make a dober acquain. tance, but went about and back in the direction from which they had come. We were contipuing our hadlong course in the endearor to orertake them, when. looking to the left. we satw a long column of Confederate infantry marching stadily up the raiload track. and a glance along the grof line showed that they were pouring out of the railroad tunnel which. at this point, pierces the mountain. We, in turn. thought it prodent to go to the right about and fall back toward our reserve. Finding. bowerer. that we were pot pursued. we again threatened their adrancing cavalry force by a succesion of charges, as it continued to adrance under cover of the infantry. It never waited to receice our attack but seemed to endeator t" draw us on so that we might sutter from the fire of the infantry. which was advancing on both sides of the roal with kirmisherwell out. A battery now dommenced a rigorous whellins and it be. gan to look as though we fere being attacked by the whole confend. erate army. The remainfer of the prigate came up. a line waformed, and an effort made to retarl the advance of the fnemy until Wilson's division could prepare to rqeeive him, but. in opite at all our efforts, we were steadily forced back into the little village it Warnesboro, where we tepe assailed by what was more tormidablu. than the enemy's bullets- the tongues of the women. The variety of epithets in their rocabuaty was truly astonishinge and when their supply of these was exhabsted they did not hesitate fo resort t. missiles of a more tangibld nature wifh which they pelded us from the windows of their houses. The remainder of the confederate force, infantry, cavalry, and artillery; coming to the as vistance of the women, we were ignominiously expelled from the to rn. and the eneñ $\bar{y}$, as though the object of his tremendous attack had beon accomplished, appeared for the time contented with his achievement: or, it is possible. paused to exchange congratulations upth his tair allies. Wilsovs division being now Withdrawn towart stamion. the Reserse Brigade was directed to deploy a skirmish line for the purpose of retarding, as far as possible the enemy's adralnce.

It was now quite dark; and the Rebe artillery treated their triemh in Waynesboro to a brilliant pyrotechnic display by shelling the supposed Yankee position. Our men appared to enjoy it equally with the other side, as its only effect was to hurry up Wisons stragerers. some distance in rear of our line., While awaiting the dnemys adrance it was reported thata force was marching along the railrnal track, which here rums through a somewhat deep cut. ant, by pase.
ing aroumd our left flank was getting to pur rear. Cpon investigation this report was foum to he correct and the circumstance was repoled to the brigade commamler. but. 中ring to the darkness of the night and the consequent difieulty of prompt communication. some time elaped befiore orderw were received for the withdrawal of the kirmish line. This was finally aceomplif hed without trumper sig. mals and as silently as posible.

The brigale having asembled. we fond our mank conviderably Wepeted be the roush hadding we had reqised. some of the men, ather our hasty withdrawal from the thra, had continued on the
 tion. One regiment of the bergade was nt present having been detached on a recomainame before the attack was made. While awaitine orders in the darknes. the officers having assembled and beine ensated in diwcusing the situation a number of shots were tired directly in cur rear. cielleral Torkert and the officers of his tatf were a shont di-tathe from us, and onf of them called out: - Stop that firing! You are tiring on your own men," The anwer came in tones more toreihle than prlite: . Wh know d - . 1 well who you are!" And another volley followed. An ottieer in the group around crempal Torbert muld be heard directinge some one to ride out ath have that fring otopled. Then atho a moments parley a distallt wice from wht the darknos alle": "Whare ano?" The taff officer replied in stentorian whe : - lieneral Parbert and
 pared divectly in our front- We having aced to our late rear-and a wamm of hallete whistled weer and are fand as like the swift and angry Hight of some new sort of night-1 drl. In an instant all was "-ntusion. The only command was: . ( (me on!" as Torbert and
 but of the field into the roal and tore ondly past the lines of the onetuys infantre deploved aloug the rai fence which bordered the mad. The line was distinguishable only he the sheet of hame from the muzales of the muskets which seemal atmont to touch the flyine bor-emen. Had the road been obsucted dive confusion and -anshter must have resultenl: but. fort mately for us our tricky atreraries had neglectel this obvious precaution in their little hagring game. In a fer brief moments we had passed the line of tire and a little further on. halted and detormed. It was impossihe at this time to form any idea as to oup casualties. The difterent regiments of the brigale were represent hif fragments only but we knew, of course that abl absentees were not killed or captured.

In the disor pization incitent to the darkuese many officere and men had contrued their fourse along the road: and I finpert that some of the men who knew of the mprement of the congyy intan. try to our rear had exercised that frecdom of judement wich wian this time the acknowledged premgatine of the Ameriman woblior. ath: had taken the road to standon before the night attack who male. It resulted, however that our howes in thit attair. althourtr chavilerahb. were not excersive: the explanation hathes tomat in the fact that the




 road at intervals and detemil them etublomen arainat and attack

The march back to staduman was treine in the extome Ta,



 nately the enemy did not pursue, and betore haylight fre reacha.
 pieket line extablished. os that the liderve Brisale wat wixen an






On the e?th we marelod back down the Valley to B:pherwater: burning evergthing of a combastible patare on ment except 小wor inghouses. Our infantry tell back th Hatrivonhurs: amb the calvalry after completing the destrdetion of exerghing which could he. is
 adranced line at and near Mont Crawdod. picketiner sten ly wand
 later. During the ensuing two or thred days we were in fimmediat contact with the enemy's carpulers and ndt a day prow- without hamp skirmishing. It about this time General Winos was reli. Fe. troun duty with the Army of the Shemambah and orderen wet th talse
 General Shermas. General Coster sudceeded to the cophami of the Third Division which. under that dakhing cavalry leater. alde... pew lustre to its former brihant recom. Gemeral suemin as having
decided that. in the absence of proper lings of supply, a farther allrance of his army was inadrisable, was directed to withdraw his forces to a defensible position in the northern end of the Valley near th his base of supplies-and to nend weh pertion of his forces as could he spared to rethforce our armies in front of Petersburg. The move. ment commenced on the morning of the i, ho of Oetoher. the calvalry - wetchine acrow the salles. continming the distasteful work of de-- ruction rendered necosary by the sten regnirements of war. Pewfans division prolongel the line into the Laray Valley and perfinmed the same duty in that region. . W our torees fell back the


 army hat been remtered lig the return of ker-haw - division which

 aion jut arrived in the valley with hiv hitrade of cavalry and by
 "hich: durins the almence of it proper commandere diabled by



 - .onnter with our monated foree

But there was anther cature more poreth that the arrival of we abrement. or demeral lasser. Many of the othere and men ot Enders army hat their homes in the shommah fabley and in their marchinss and enunter-mardinges thengh this rusion all had portaken of its hopitality and bouty. Fhery saw this beantiful ralley lyine hetare them in thames. deoolatena and ruitu: from their pint of riew. the cruel and needlow work or the hated invader. At this time it was imposible fir them thapre fate the exigencien ot the - ination which male the dentruction a nec.-ary and justitiable act if war. To them it appeared a waton and erued ant of vambaliom. bure in keeping with the times and methofor Wanemeters and Theme than with those of modernevilized yartare. They must have benn more or lese than haman. not whave fad their resentfu! pas--able stimed to their inmost depthes and then reselves strenethened and arms nerved to strike in defense of thdir burning homes. or to arouge themselves for the ruin alrealy wrpught. An unfortunate - ircumstance which oceured at this time doubtess added the the
bitterness of their feelings. Lieutenad Mehas a brillitnt wouns officer, a son of the Qaartermaster General. and an engineer ottion on Sheridan's staff, was k hled near Harrisonburg under circum. stances which led to the belief that he had been murdered hif guerillar. In retaliation, General Sherpdan orierad all dwelling hodees withil. a radius of five miles from there his body was found to be burned. The valley and adjacent mquntains were intested by lan less parti. sans who were sheltered, fed and protected, by the people of the Val. ley; and, although it has sipce been clatimed that this youns oftion met his death at the hands of a cavalry spleder of Wernat brimat. the circumstances, as they at the time appeared. fully justithed fiemeral Sheridasis action.

There are two principal pads extending the length of the Valley. the Valley turnpike a broad macadamizel thoroughtare and whar is known as the "Back Road." which eqtends alonit the yest side .. the Valley near the base of the North Mountain. Merkitry divi sion held the pike, while (heter with his division mardhed oll the Back Road. We were followed on the pike at a respect fat livata... by Lomax. while Rosiser whof with his hrigade. was full of hontilenme. devoted himself to Cester. On the stb Roser became e persi-ton in his attentions that Crestan's rear shard was èngage nearly ali day, and it was found neceswary towarl evening to send the fire Division to his assistance. General shequbas. surprised apdanner... at this arrogance of a defeated enemy decided on the evepinge ot tite sth, that he would hatt his army for a day and give the cavalry , : the two armies an opportunify to settle any little differdnces which: might exist between them. That thede might be no nowake an ${ }^{\prime \prime}$ his intentions he sent for Gqueral Torbert and told hid .. To star: out at daylight and whip the Rebel cavalry or get whiph himant:

Orders having been giren for the whole command to be it ti. saddle at daybreak, we wen to our rese with the consci申u-ness dial we bad a tidy bit of work before us tor the next day. Our amily this evening was on Tom: Brook. which runs along the bare .. Round Top Mountain about three miles south of straburg. W. were in the saddle at dawn and, as we moved out actows the littin. stream in our front, the rose light of the rising sun coluld be ar.... over the summit of the Maqsanutten Mountain. presacing a low. day and, as we hoped, sucgess to our arms. Losax and his mult were already in motion, and as we came into position hif line combi be seen forming in the distance. The Reserve Brigad was div... the post of honor on the pike, with the Second Brigade on our rish
and the First on the right of the second colneting with (risters ieft. The enemy's artillery opened as we pegan forming. got the range promptly and pitched in their shells frith tine accuracy until they were replied to by a section of Whfistos's battery of our hrigade and obliged to change position. An atrance of the enemys right having been prompty checked by a dapid movement of our feft he now deemed it prulent to get his mon out of the sadde and -atablished bebind mal harriades, Our art llery was kept well up © the fromt and made lot o of troble for the Contederate tromers in Wheir attempt to extablish dismounted lines. It now became evident trom the aram of artillery on our right that wur furees on the bark

 -ni-hed itedi be keeping well up with our andace: and bey pouring at ranister at hort ramge. contributed in areat measure to the - hemoralization and final ront ot the enemy. The opportune moment a bing arrived. we leave the artillery to hith for itself and move into - he pike. The charge is anded- the whol lime senestorward with a "heor-and we ride for the battery which i- mow directly in our font: thes are (ow quick tor us: all the grus but one are limbered up and oft at a gallop, before we can reach them. Thinne gun they appear willing to sacritice for the sake of the execution it will de at -abe glarters. There is one discharge whigh has no effect tward - Whing the head of the column: the camno neers can be weol rammine home another charge: the sumber is paking frantice ctionte to -ut it off. but his herves are evidently at fallt and mhile he i- yet atipusting his lanyard we are upothimand the gran in ours. Nohedy thank-ot pausing to secure trophes: we hat the adrance amb pronhis on are soon m the midot of the tying rather their otfere in rat
 dat of the pike obecures everything: Cnio or Contederate. we are ait the same colore and as we come upon the inguns one after another. the. driver plying whipand spur in the vain effort to eseape, it takes a aber stroke to entoree a command th hatt Wabons. caissons. aml andulanco are pasced and till the ehase fontinues. We have to -hil comrates in the rear the work of securg priwners: our only Hublat is to prese on so that there shall bo mon positity of their Wharanized torces halting to retorm. We ash through the streets , Woombock, and the people even thourh the flying cavalrymen are their triends and neighbors. beeome so imbued with the excitement of the chase that they fairly cheer as on. Hinally at the little town of Edinhuro. vishteen miles from our startipg point. When the last
his own borse receiving from the diovernmept a per diem allowance fire its use. The divisions of Lomax and Fitz Lefe wre largely reruited trom this resion, and the destruction of the forage and ropls, and the driving oft of all the horses in the Valley was a serere blow to their etficiency as it rentered got onfy diffeult for them to subsist their anmals, but imposible for them to procure remounts or to afford their worn out animals an opportunity to recuprate. Ls bearing upon the "saber question." it may be of interest
 de says: $\cdot$ Lomax s cavalry is ammed entirely with rifles. and has no ablers; the conserpunce is, they cannot fict on horeback, athe in this open conntry they eannot fight meressthy on font."

[^0]T
 Mexico is of spanisll origin. The spaniards expleded the reve of Europe in their art. add their descembant. in Me. inomimponit upon them. The discorety of gold in 1sts sumbent peopled the mountains of California with thousands ot minera and latere thwt. sprang ap humdreds of miles from the erons. In the early dar- the... were all supplied from the sa-board and from puints fill the sarear mentoand San Joaquin ricer. ly pack-trains. introluced and manatr. .
 gaged in this profitable bupiness. Athough the milrom and wasen. train soon superseded these pioneer carriem thmushon the areator part of the State, they nerer entirely displated them: and there ra..
 miles wide, in northwestern California and oonthwert fu dresun : - which all freighting is done by palk-trains. which a equipped and conducted adoording to what the home experience ot it. telligent men has proved to the the lest methonl.

The Department of Arizona. owing tw the natme no the count: and the service which the troops there are liable at ape time wi. called upon to perform. is better provided with pati-k then than any other. Searly every post hats a large one. and during my revin there, January, 1885. to Julr. 18s5, each trow of the Fonth (avales had its own train. A description of that of Tronp . $p$." of which as troop quartermaster sergeant. I had charge for a yedr. will tathy apply toall. The troop receiked from the Quartermater D Deparment trelre mules, two of these for saddle animats and relitts in case ut accident, and ten aparejos and rigging complete. Th mules wri. quartered in the troop stables, forage and other allontances boins drawn for them. shod by the troop blacksmith. and tur ed out daily with the troop horses, so that they soon became attached to them allil

TROOP AND COMPANY PAGK-TRAINS.
indifferent to others, therefore easy to herd. ly the wagoner. farrier and stable orderly. were kept in the stables. The quartermast $r$ sergeant had charge of the stables. pack-train and kitchen. and drew and accounted for the torage, stable allowances and rations. H was required to have always on hand in the store room of the froop quarters ten days rations. liberally estimated, with other artifles necessary for taking the tieh. viz:

| Flour | O lbs |
| :---: | :---: |
| Hard bread. | \% 0 |
| Bacon | ..... ....... ... ........ ..350 " |
| Supar | - |
| Contiee. | ... 60 |
| Beans | . 0 |
| salt. | 25 |
| Baking powder. | 20 |
| Box of ammunition ceartine | ..110" |
| Box of mule shoes and nails, two shoes and nail. | per mule \ about..... 日- " |
| Six camp kettles, about ........ | . 40 |
| Two mess boxes, about | 1.7 |
| Twenty mess pans, about. | ... 10 ${ }^{\text {. }}$ |

In axe, spate small oottee mill. i wo butcher knicel, two hng fork, two to are mes pans, ahont
long spoons, three or four tin plates, thref frying pana, a few

In excess orer the ration. of one hundred pounds of four athl head. fifty pounds of bacon. fifteen pounds of sugar and twenty f"omb of contee : allowing for the contingeper of guides or couriers h...ing attached for rations: tor any necessit for "making the ration hold out a little longer: ${ }^{\text {a }}$ and for the tencory of men. in the abence of resetables, to consume an orer-allonance of the above-named -...mponent pate." The mes. boxes were of light wood about two amb one halt fuet long. one and one-half fee wide and two feet deep. trenghened and made practically water that be a rawhide cover. sis eamp kettles were necessary becanse water was sometimes found in place- inaccessible to live stock. whenct it had to be drawn by roper and kettles. One of the mess hoxes penserved as a watering trough, and the animals were watered without interrupting the work of the cook and baker. The cotfee was roapted and placed in a bag made of a rubber blanket and was. once a ponth. taken out for use and replaced. The total weight of the abofe including an officer's lundle of about thirty pounds, and twent pounds of fresh bread always taken uponstarting out. was about 1 fot pounds, or an average of 141 pounds per mule, which the necessary protecting covers
brought up to about $\mathbf{1 4 5}$ pounds. Everything was veighed and divided into ten loads, of twenty side packs. allowance being mal. and places left for the bundle and fresh breall referred to The camp, kettles, being of three sizes, were telescoped into two sades. really fir: slinging over a pack. With each load were laid the alogrope and lash-rope for lashing it to the aparejo.

The quartermaster sergeant and farrier slept in the sable. V'un notification at night of an orler to moke out, these men hegan purting the aparejos on the mules, being nown joined by tiouf or five nina from the quarters. The party then sadeded, monnted, topk the malito the store-room, lashed on the packs and foined the froop. whill. generally within half an hour from the receipt of the of der was our of the post - usually in less time than if ordered out duping the day. there being no herd to be brought in, nor men dispered about the post on various duties to be sent fore ©n the march the train toilowed at sufficient distance to prevent the mulen erowdigis in amon" the horses when the troop palted or was crossing bad ryuml. The. cook and baker rode ahead, with one min. to keep the mples tugether during halts or to halt them when necessary. while fomp others rout. in the rear, where the pack could be overlooked. The mess bosewere borne by the "kitchen mule," atimal selected for its whil beharior, steady habits, and easy gait - shaking its rat er miscellaneous load as little as possible--which al ways kept the tradil and could be easily caught when its pack needed adjusting. Clpn reathin. camp the mules were turned out with the horses or pickted. acomeding to circumstances. Every soldier, abs soon as he had finished hiduty to his horse, brought an armful otwood for the cool and baker. these men having no assistants.

The twenty pounds of fresh bread was taken for the first meal after reaching camp. The hard bread was reserved for emersencies; to be used when fron lack of fuel or reasons of precaution. the bakers large fire could riot be built, and for issue to men detachend for service away from the troop, as couriers, etc. The baker warequired, after the first camp, to keep us always provided wita breal for at least one day ahead. He baked in the twenty mes pans mentioned. These pans were of sheet irop, circular, and ride intwn sets, one about twelse inches in diampter across the t $\phi$ and nitu. inches across the bottom, and the other bout eleven inchas acrow the. top and eight inches across the bottom. All had the sa qe depth.about five or six inches. They were thus very easy to pack in the mess boxes. The baker commenced by digging a trench a little owo a foot wide and a foot deep, and about twelve feet long built a fir.
near it and then mixed forty quat cups of four with salt baking pow derand water in one of the mess hoxes and dirided the dough as nearly as he could into ten equal parts each of which was placed in one of the ten smaller mess pans. He then covered the botom of the trench with a layer of coals about three inches thick. placed upon this layer the mess pan containing the dough and covered each be a larger pan. bottom up the sides extending around and below the edge of the lower pan and protecting its contents from ashes and dirt. He next tilled the trench and covered the top anf sides of the double pans with coals. making an oven from which. in an hour and a quarter. he took ten loares of four rations each. So eparate cooking was done fire the officers. Each carried his own mess fit and lived on the ration. paying therefor into the company fund. Fevery evening the packs were rearragged. the weights fairly distributed, the ropes put in phace and such changes as wowe necessory male in the rigering. -hifting the side stufting. lengethenine or shorming the crupper. etc.

The foregoing deseribes a train attadel to a caralry troop. much lizhter taden than under ordibary cirematanees. hecance held ready (1) keep up with it at the walk, trot and oflop, for twelve or fitteen hours a day, for several consecutive das. pere rough eountry. The horses were facored by their riders sometiper dismounting and leat. ing them. and by their saddles being occasibnally remored. or cinches forened, if ouly for a few momente. 中ender. they carried live weights. but the pack-mule carried it- dead load all day. without a moment: relief. Fvery halt was taken flomatage of to cinch it tishter, and if it were stopled on the meqeh for an adjustment of it. load it made up for the delay hy ingreasing to gait. I have known the tronp to travel for three day in the Sierra Madre with the then dismounted and leading their horses almost the entire distance. It ance made $1+1$ miles the firt three days after renewing rations. and in each of the above cases the pack-mpleskept uph thongh some of them suffered rery much. The tromp sent five monthe in Mexico in lesti. For the first six weoks it was fupplied by a large train which kept in its general course as a poring hase of supples. Whenever rations were drawn from this tein freb mules were taken Wreplace those which appeared to be weapening the latter being recived into the large train. After six wegks was found better to have the large train accompany the tromp, and it did so. the troop dean being included in it. and all enlisted men being relieved from duty with it. Inder those conditions. this was certanly the best Jatn. But when a troop is held realy to take the fied at short notice
for scouts of ten or fifteen days. or longer. even in a ser fion where can be easily resupplied without great deviation tron its course. I consider the troop train the best.
*
Among the California, Oregon and Ihaho trans, no mule ${ }^{2}$-arri.. less than 3011 pouficts. sonte of them 4011 , and I whey sitw blte $\quad 11$ Klamath river, California. baded with an iron castiner weighing woy jot pounds. But they travel from twelve or fittern to eighteen ... twenty miles a day, over good trails, and are well caded for umber a perfect system. The moment a pack is observed rinlingtoo far t....... side, too far ahead or behind, too high or too low, or aprejo werty per appears too tight or loose, two expert men are at the mules side. and the fault is almost inftantly remedied. The grat of the heos mules is the so-called running walk, which enables thern to make $\mathrm{l}_{\mathrm{i}}$. day's drive in as short a time as possible. withont rockingr their land or shifting the aparejo. It is as hard on them to stand under dasi
 on them than a day's walk. The ordinary aparejo is generally anti. and sometimes the Humboflt aparejo. so named from the comaty ${ }^{\text {a }}$, California in which it originated. This consists of the modinary aparejo, fitted over a woolen tree with cross-bar to wich the - lins rope is attached, projecting about two inches above the aparejo. ani is uned over very sterp trifils. Its adfithtuge is the prevention of the sliding backward or forward of the loal. which somptimes werns with the common aparejo without too tioht einching. or rather lashing. Its disadrantage besinles its lack of alaptability to th. backs of different animalsand the absence of elbsticity in the to. lies in the fact that the improper placing of a load by an frexperioncou man is almost certain to make a sore back. while with the ordinar? aparejo it might only unduly tire the mule. The saw-bpek park-sai dle is rery conrenient for dight loads and short ilistaphees; hut th. bearing surface is so small that, no matter how well fitted tw 1 , back, nor how heavily padiled it may be. it cannot be used by the most expert man, with and considerable load. for mone than a fen days at a time without danger of giving a sore back.
A. A. CABANISS.

Second Lieutenant, Tuentieth Injantry.
other regiment which was on picket. and which wend have tuln. passed through.

The regiment broke camp and started before suntioe. and $1^{m}$ ceeded to Gaines Cross-rpads without halting small partion it Mobsy's. White's or Gilmore's men wqre seell in different piace. hut they caused us no delay. They were on the alert. howe ere and $\mathrm{l}_{\mathrm{m}} \mathrm{m}$ i. ably knew a great deal about the putpone of that graph movement of those two great armies which was already berun At dain... Cross-roads, the entrance to Chester Gap. Captain Paul Chamborrar. with his troop, "I," was detached to operve and repor to me what. ever of importance might happen. The command then puncedint to Little Washington. On the way there a neomid oberving part? was detached and posted. On arrivipst ate Lite Washinstom. a ib. tachment of one humdred of the strongent horsew was elected aniof pushed forward under a tieh ofticer. (two tieh atticen went. Li,m tenant Colonel Boothby aqd Major Brows . to Sperryille. the ... trance to Thornton Gap, whth orders to return as wona practicat.,
 twelve men was sent back to sulphur springe with a report t. the. brigade commander. of our progress admall that hal hell dome. al:-
 the detachment returned from siperritille.

Colonel Boothby s detafhment returned a little betode suncet with nothing of special interes to report. One hour was allowed it it: which to unsaddle, groom. feed and muke eotfee At the end if to.
 picked up the last party that had been lett on the outwayl mathe an:i made no other halt till Gaines Cron-rouls was reacled. Capata Chanbocrne had seen Lieftenant Hapris and party po-s that puini on their way in. He had nd hing else of importance to itport. It wan then decided to send Capthin Chabrocrase. with a dethehment tian had had the most rest during the daf. to Sulphur spins- at ol.... with another report, and put the rest of the tired command in: camp near Aminville to rest till morning.

Captain Chadbotrane and his detaghment therefore took the leat and the rest of the command tollowed. It was some tixe mile tor al proposed camping placef As we drew quite near to it and th th. town of Amisville, Captain Chadbocraesadrance guad was brivkly fired upon, and some of the men came back in confusion to the hean of the column. where I way rking. If was supposed that the attack bad been made by a party of guerillas who might have observed ont going out, and were waiting in amblash for our retufn. In a ficw
 for that a harge fore was in our trome tha the was on higher eround and could se their catlly tire far and wide There were two
 white folk continued to live. Inguirien ofere mate at thone houses an the the tromp in (atmp, and information pran whtained that .. A. P.
 $\therefore 10 . k$

The two tiont tronpere we ance de inged to be in readiness -O buet any attark. At the same time Idqumant colonel Boothay wa- the to the rear of the columm. internet the captains, while paning them, to tace their companies ahout and conduct the eol.



 wo depleged companier werenderel to uphlraw and follow it and with a cmall party I tillowed in the rear.
 -hat wa- purnines. abdenty came upon as : wo nt them athit took them alones with u-

Wh arrivins at the erow ponls I fond
 tab never been tw Wrtalls. bat - know the : lane path part way." It war now midni - he hebel army hut were not inany imme :ured. It we had thontrite whly of wire .1 sיble through Cheoter Cap wwand Fron Manamas Gap and lha-hack to bur arms bat we were the powerone of mont imp" © the welthere of our atmy. It Gemeral ! Athmerk station durine the $1 \geqslant$ th. then :ully ahreast of him in a race tor hiv con Abl had we known then the fact that the athally recomend the river amb marehe aty. we would have been eren more st :uconty of reporting prompty. Gur of ank to our army hy the hortor line: w
 hatheh of the Rappahannock. Which we Amiville or at sulphur Spiners. and we


We, erowned a -mall creck han a andad ot the enemy the dark. Wecaptured
hat Bucothby had seemed sumbe. The hery aid he way mont thar: it is only he athl we were ent oft ly bate danger of being cap--11 capap we would have Roval. thence through a loner and ate detour. tant intormation relating eatof remained at Rappawe knew that Lee was munications to his rear. of our army corp ham toward culpeper on that ngly impressed with the ject, theretore was to get sraze the enemy anclosely the shuth side of the north hat always crossed mear How rat oft from both , fiml a new route acros.

the headwaters of the river. throurl a few mile of fombed comme:
 glad to acept the graidane of the fate contraband whe knew Ho way most thut. even by a . hos path part wate.

So time was lost. The column wa onlered to trart aml 1 b
 rear. We hat not gome far hetore the ha, p, moth was realizal. The



 gait where the road was better. The rear. howewer. had at hithere: experience. Just as it disht puicky it pace th mike up lant di-




 charge that he did not how the whe ally tarthere. He hath tron w the outer edge of his litthe worll. Fhen the mami hathen fine it colonel tw matke his way th the frome. He had been quable 1.. parin the wornh while it wasmoviner. The math wav ramed amine

 past midhle age but mot phe. He condil not derible whether we w. trom the north or from the :onthe fand we did met tell him the while. He was questiond very elonly ar to the dipertion and :
 upon them. He wat then siven a twenty hollar preentank wa-

 ance on my part which I pare never heren orperially from at his: indicates my gratitude forfa guile that night.

 Rebel camps to renture over. Fromithe suide I leaped of a man obseure road by which wd conh pa-y Watertow farthor to the then and reach the Warrenton qurnpike at a point tarther eat. The Entio. conducted us by that road and. when we had got well beyom Wand loo and the Rebel camp fites were wefl in our rear. out semoll $\underline{1}$ nid. was dismissed and the bopse that he fad heen riding friven whin At his request we wated till he concealed himedf and his hor-

in a piece of woods to remain while the column was dassing. because he said "those soldiers in the rear will not let me taqe this borse if they see him." It is quife possible that he was right. Soon after dismissing the guide we yeached the Warrenton turn ike.

Our route thus far had been chosep upon thésuppopition and hope that por forces were still at Warrenton; and, as we dew nearer the town, speculation was rife at the head of the column as to the prolabilities of the case. We were hoping and rather expecting ever:moment to encounter the pickets of some of our fortes. We were descending a hill through a thin belt of timber, when faddenly there was disclosed in the immfdiate front of the advance guard and just to the right of the turnpike, a camp of cavalry, all asleep, apparently. The column halted and Major Thaxter, of the regiment. without my knowledge, quickly rode into the camp and, sitting upon his horse in the very midate of the sleeping soldiers, callod out, "What regiment is this?" A mantraised his head and replied, "The Twelfth." "The Twelfth what?" asked the majot. "The Twelft Virginia. you damn fool!" was the Virginian's indignant reply. The major retarned even more quickly than he went and, in a vers loud whisper. reported, "Colonel! Colonel! it is the Twelfth Virginia Cavalry!" In the meantime a rolunteer had been galled for to ridd into camp to determine the matter, and was just receiving instructions what to do, and how to do it, when Majpr Thaxter so unexpectedly fo me reported his discorery.

We then concluded, as was afteritards shown to be true, that the main body of Rebel cavaly was still n our front. This "Twelfth" regiment that we had run into was in a place of supposed safety, being between the main body of their cavalry and a forps of their infantry. There was no one stirring in camp, not eren a camp guard. It is very possible that we might hare captured the whole regiment. But capturing regiments was not in our line just then. We had just as much elephant already as we wanted to carry.

The fence was ordered to be thrown down on the nof th side of the road and the column headed northrard orer fields, pastures, stone walls, woods, high lands and low lancls. Before the rear of the column left the road the "Tuelft" was considerably ast ${ }^{\text {q }}$, but did not parsue.

New Baltimore was notheast frod us, and there fs a turnpike from Warrenton to that town. It was possible that the enemy had advanced even to that plage. It was therefore desirable to proceed parallel with the turnpike at a distamee from it, in frder that we might approach New Baltinore from the northwest by the Thorough-
fare Gap road and thus aroid the possib lity of again being cut off by the enemy. We had no apprehension of being eaptured. because we had an open country to the northrard and could make a safo detour in that direction from any point but, as before stated, we wanted to return to our army by the quekest and shortest line to tell it what we knew; yet we could not neur the risk of being cut off again at New Baltimore, because it whuld be daylight before we could get there.

It was about three oclock in the mor, ing when we ran into the :- Twelfth," and took a new departure acrods the country. There was no moon and it was more or less cloudy il night. Fet it was not a very dark night. More or less stars were visible all the time. We picked our way the best we could for several miles, and came to a fine looking plantation house surrounded by thees whose shade made the entrance through the enclosure quite dark.

A loud rap brought an elderly and ret ned appearing gentleman, accompanied by a colored boy who may have reached his teens, to the door. In the dark they could not t 11 who. nor how many we were. I learned from the gentleman'that our cavalry had retired through Warrenton, followed by the Reblel caralry, the day before, and that considerable fighting had been done. I also learned that we were about a mile northwest of the Yarrenton and New Baltimore turnpike, and that we were then on a road by which we could approach the latter place from the north west as desired. We took the colored boy for our third guide who conducted us by the indicated route, and we reached new Baltimore bet veen daylight and sunrise -a "bright rosy morning." The only person discorered was one Rebel cavalryman riding over a hill beyo da the town in the direction of Warrenton. He had probably availed himself of the opportunity to visit home or his sweetheart for a nigh. We passed through the little town and took the turnpike in the difection of Gainesville. We came to rising ground from which the tupnike in our rear could be reell a long distance, and upon which a path ot corn had been cut up and shocked. Here we formed line faced to the rear, fed our horses and unsaddled and groomed them by detapments. Many of the men. made coffee.

After an hour's rest, we resumed the parch by the shortest route to Bristoe Station. Major Brows, of the regiment, was dispatched to find and report to proper authorities our discoveries. He found army headquarters at Catlett's Station. Al soon as it was discovered there who he was, where he had been, ainl that he knew, he became quite a lion, and he also knew bow to mak the most of the situation.

At a subsequent interview with Genpral Meade．Le epuphasized tu me the great value of the information which I sent pim by Majon Brown at that time．For two days he had not received any reliable． information of the morements of the \＆ebel infantry，and was worriel and annoyed in consequende．He blaped our cavalry fo inefficienc！ while in fact，as it subsequently appes red，the cavalry had done and was doing its best．The two cavalry forces were fierce y contendin． on the 13th for the ground between the two armies，and each becam． a curtan to conceal the infantry；whic the other conld pot penetrate．

Continuing our march，we arrived ip the vicinity of B istoe Station about midday．We selectdid a comfortable place and ablandoned our－ selves to rest and sleep．The next mprning we crossed the railroal but remained in the vicinity of Bristod most of the day．vatching the interminable wagon trains hastening to the rear throug Brentsville． In the afternoon A．P．Hiples corps arrived at Bristoe Station and gare battle to our Second Corps，which lasted till after hark．Beforc dark we mored back to Manassas Junktion，where we whited and ob． served the retreating colymins of our infantry till late in the night． We did not make any spedial effort to find our command The army was retreating and our drision might come to us sodner than we could go to it．

Near midnight the las of our infantry passed us．Our cavalry division was passing to the rear belon us at Cnion Mil⿻木口卄 ，but we did not know it then．So we resumed the march and foll fantry across Bull Run to the higher ground toward Centreville．

As soon as we crossed Bull Rup we were among the camp of the infantry，much to their indgnation．Infantifmen never had much use for caralif except 中hen the latter fas well w the front between them and the enemy．It was a mortal offense for cavalry to cross their line of march or to inrade their camps．On this occasion we were orphans，or rather ragrants，and did not le． long to anybody．We the efore meekly picked our way among their bivouace until we found a space large enough to form on and di－ mount．The cavalrymen then quic年ly sought their eds beneath their horses＇heads，each with an arm or leg through the bride tior a hitching post．Next．morning．howprer，found us su rounded lig many friends，among whom I expecially and pleasantif remember Colonel Frank Heati，of Maine．

During the forencon wo learned that our division was in the ri－ cinity of Union Mills and Fairfax Station，and we ha started fur the latter place to join it，when we pere met by Gendral Warres who gave me orders to tufn back，adfance to Manassal or beyond，
until we found the enemy，and capture spme prisoners if we could． Frequent reports were to be sent back to him．We adranced to Man－ assas and met the Rebel caralry just at Fdrt Beauregard．We skir－ mished with them and held them in che $k$ till they brought some artillery to the front．We then fell back blowly to Bull Run again． Our batteries behind Bull Run opened upon the advancing enemy at long range，and an artillery duel and con iderable skirmishing fol－ lowed．

Soon after we met the enemy at Fort ＂fficer，a stranger to me．was noticed near －him if he had any orders to commanicate had any orders to commamicate or surgestion to make，and lie conrteonsly answered that he had not．bpt only wished to observe． I soon forgot him．Perhaps I did not erf learn his name at the time．Since then，howerer，he became my friend．and，for a time． m．commanding officer，and recalled to mat oneasion of our first meeting．His name was R．S．Mckevzie．

The same evening we marched to Faiffan station，where we ar－ rived at a late hour．The next morning，the 16 th．after an absence of four days．we rejoined our division and frew our forage and rations amidst congratulations and honors．We lad been officially reported as captured．

We marched all day the loth，all day the 11th．all day and night the 19th．were cut off twice by the enemy and employed three gruides． We marched almost all day the 13th，were moring all day and night the 14 th，and were marching and fighting all day the 15 th．This is only a brief chapter of the services of th．First Maine Caralry．

This narrative should not be closed without a relation of the ad－ ventures and misfortunes of Lieutenant iparais and party，who were cent back from Little Washington on the 12th with a report．

The party passed Amisville before IInf．s corps arrired there，but when it reached Jefferson，near Sulphur ，prings，it encountered the helel cavalry．．The party then retraced its steps to yeturn to the regiment again，but before it reached An istille it．encountered the Rebel infantry and was thus hemmed i，between the two forces Lieutenant Harris aroided detection，toof his party into some thick pines and concealed horses and men．Befpre dark two Rebel soldiers wandered into the same place and were thken prisoners right within their oicn camp．During the night Lieuterpant Harris abandoned his himses，horse equipmente，and sabers．THe men took only their fire arms and their two prisoners．Thus Lieptenant Mapris conducted his party out through the Rebel camps and across the river into the country northward．

3eauregard，a young staff e skirmish line．I asked




[^1]



[^2]



$\square$
$\square$

RECONVAISSGNCE FIRST MAINE CAITALRY.
The next morning they met Whire with a small party of hiscouts who demanded their surrender. Lieutenant $\boldsymbol{H}_{\text {atrar }}$ took prsition behind a stone wall, displayed the two prisonefs from the top of the wall and challenced the enemy to shoot. WHite evidently took in the situation, beqause he passed on. HARRis hen proceeded to the vicinity of Thoroughfare Gap, where he met Mosbr with a large force to whom he had to surrender. The party was taken back to Sulphur Springs where it arrived after dark. Thefe was our old camping ground. We all had left there only about thirty-six hourbefore and Hakris knew the place well. There was a small frame house with a hall through the center. The entrances both front and rear, were rather high and the steps of the rear door had been taken away, leaving it quite idaccessible. The door was poo high for one to eren jump from to the ground with safety. especially in the dark. The captives were shown into the froht door of this hofise and ordered to go into the room to the right. The men went intp the room. but Lieutenant Harris slipped quietly through the hal. lowered him. self to the ground from the back doop and concealed fimself in some tall weeds. The captors soon produced a light to iulentify their prisoners when, behold! the officer was pot there. search was made for him indoors and outdoors. without nuccess.

The retained captives were soon sent to Kichmond. Lieutenant Harris concealed and hubsisted himself several chys within the enemy's lines, until the Rebel arms retreated agai to the Rappahannock, tearing up the railroad as it went, and our army in turn advanced to Warrenton Janction, at which point he reäntered ourlines.

Lieutenant. Harris das a brother of gallant General B. F. Harmis of the famous Sixth Maine Infatry. They serfed their country with sacrifice of lifnb and life. Lientenant Harris was abrave and indomitable 9 the foregong narrative indicates. He met a soldier's death while on picket, May 16,1864 , at Jpnes Bridge, on the Chickahominy.
C. H SMITH,

Colonel Ninteend U. S. I, jantry, Brevet Major- ${ }^{\text {jeneral U.S. A. }}$ Fi,rmerly Colonel F , st Maine Civalr!.

KILPATRICK※ RAID AROL゙ND ATLANTA. AC'GUST 18 TH to $2 \mathrm{OD}_{\mathrm{D}} 1864$
1 FTFR the failure of the cavalry more nents against the railroad -1 about Jonesboro. under Stonemana d McCook. General Sherman became convinced that cavalry aldne could not establish a permanent lodgment on the railroad belpw Atlanta. and therefore concluded to move so as to reach it with lis main army. With this in view he reörganized his caralry into three divisions under Generals (iarrard, McCook and Kilpatrick. Kilpatrick was placed in the right rear in support of schofielids exppsed flank. Garrard remained on the left and McCook's division was held somewhat in reserve about Marietta and the railroad.

A large portion of the Confederate cafalry under Wheeler had been dispatched around the left flank of S erman's army, and struck the railroad about Resaca. . Another detacument of the enemy's cavahy appearing at Allatoona led General Sherman to believe that Hood had sent about all his cavalry to raid upon the railroad.

General Sherman at once ordered strong reconnaissances forward from both flanks. He was so well pleased with the dash and activity "f Kilpatrick's work, together with its success, that he concluded to suspend the general movement of the main army, and send him with his division to break up the Macon road about Jonesboro, hoping that it would force Hood to eracuate Atanta. With this in riew two brigades of Garramd's division were dispatched from the left Hank to the right rear to act as a reserve in support offilpatrick. These two brigades were commanded by folonels y/ntriand Long, Minty the senior, and were composed of the folloying troops: First Brigade:

Fourth U. S. Cavalry. ............... $\mathbf{9 7 3}$... .. .... ..........Captain McIstraz Seventh Pennsylvania Cavalry...... 3:2y ...... .......... ............Iajor Jennings

Headquarters ............................. 73 ...... ............................... Malol Minty Second Brigade:

First Ohio Cavalry....................... $3 \not 16$...... ................Colonel EiLeston

 Artillery:

Chicago Board of Trade Battery.... $90 \ldots . .$. Leuts. Robinson and Bennett
Total................ 2,398

These brigades marched from camp near Peach Tree qreek, north. east of Atlanta, ut $1 o^{+}$cloce A. M., August 18 th . At of A. M., ther were balted on the banks of Hoy Creek. Resuming the march after a short rest they reached Saludtown. where Colonel Misty reported to General Kilpatrick. In an artiele bs Colonel Mint in the Ni, tional Tribune, under date of July 10th he says that deneral Kin. patrick at once assembled his brigade commanders. tur hed over the command of his division to Colonel Mcrray, assumed fommand of the corps, and gare them a synopsis of his plan. viz: That they were t. march at dusk, so as not to beseen by the enemy. reach Refl Oak on the Atlanta and West Point railroad about 9 o clock, and fonesboro on the Atlanta and Macon road betore laybreak; ambulance and wagonto be left behind, and no wheeled rehcles to be takel other that artillery. Colonel Merray's division totake the lead; to push tior. ward as rapidly as possible tor Jonesboro; upon striking the rail. road at that point to berin its destruction; to move south continuing the destruction. Colonel Minty to follow Colonel M Rray keeping close until reaching the Atlanta and Macon road: were to taki position forming line of battle between him and Athmata. facins Atlanta. They expected to meet no enemy en route other than surli as might be sent from Atlanta. The troops commanded by Kulparrick previous to the arrival of the brigades above reterfed to, numbered 2,400 men and four pieces of artillery. (I have not been ahllto get the organization of this divisioh), the total strangth of hicommand being 4,798 cavals and eight guns.

At the request of Colonel Minty he ras allowed to fake his ambulances, on condition that they were to be destroyed if they im(peded, in any way, the progress of the thoops. The margh ras taken up about dusk, but the Athanta and West Point railrqad was not reached until daylight, at which time the rear brigades 4 ere ordered to the front. The leading prigade had crossed the ratroad when the head of the one following was sharply attacked by artillery and. Vale, in his "History of Mnty's Cavalry," says. mounded infantry. but were repulsedt the aid of two pieces of artillery being prought intu requisition. Kilpatrick then ordered an advance with instructionto drive the enemy towards Jonesbord. The country to the fromt was thickly wooded and poorly suited to the operations of cavalry. The woods were also barric ded. The leading regiment, the Thirl - Ohio, was dismounted, and acrancing onfoot, drove the enemy in front of them across Flint River. The enemy here mentione comprised the cavalry brigades of Ferdurson and Ross. The bridghorer Flint Ritrer had been partially destroyed and the enemy wat posted on


the rising ground on the opposite bank io riffe pits. On the appearance of the Union troops the Confederates opened on them with artillery. which was answered by a similar compliment from a pprtion of tha Board of Trade Battery. General Kilpatrick then ordered up the remaining pieces of artillefy, which soon silenced the puemy's guns. Under corer of this fire, the two brigades undel Mryr were dis. mounted and being adranced to a somewhat sheltered position alonıs the bank of the river, opend fire with carbines and sopn drove the Confederates from their rife pits. A portion of the t oops crossen] orer on the stringers of the bridge and forming a skirulish line continued to drive the enemy. The bridge being repaired by making a floor of fence rails. the resp of the con mand crossed oner and. with the assistance of the artillepy, the Confederates were dryen into the town of Jonesboro.

Storming columns were formed and the enems was forced from the town. This put the Co on troops in possession of the railroad. thi. permanent disubling of whicli would be a stepping store tovard the forced evacuation of Atlanta, and depsive Hood of the only remaining link of communication with the Confederacy.

The destruction of the failroad was at once hegun, one brig:d.being detailed to bold the enemy in check while the wory progressed. About two miles of road was destrofed. when. on attempting $u^{\prime \prime}$ move further south. it was found that seremal regimen of Confederate infantry under General Rernolds were strongly posted hehind barricades of felled trees. Finding it impossible to adfance farther along the railroad, Kilpatrick left one brigade to hold in check Furaerson, Ross and Reynolds. and moved off torard McPonough. intending, by a circuitous rqute, to regain the railroad at Lovejoy Station, and continue its despruction. Information had leen obtaintil in the meantime that Clegerne's diviaion of infantry ind Martis: division of cavalry were en route from Atlanta to reinf ree the Cinsfederates.

While halted on the mafch toward McDonough ( 4 A.) the rear of the column was attacked by the Confederate cavalry wo brigatedismounted, and one brigade of infantry, but was repulsd by a counter charge of Long's brighde, driving them back int Joneshor". After proceeding about fiye miles toward McDonough the column turned toward the right, by a road leadipg directly to Lo ejoy Station. When about one-and-a-half miles from the station, one pegiment. the Fourth Michigan, was detached-and sent by a branch road to the right, which crossed the ralload about one mile above Lorejoy Station. These troops succeeded in reaghing the railroad and doing

KILPATRICK's RAID AROLND ATLANTA.
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mme damage, but were shortly afterwards instructed to rejoin the rommand.

The main column, while advancing toward the station, struck a forly of the enemy, mounted, about a mile fron it, charged and drove them for several hundred yards, when a strong force was developed in front. One regiment. the Serenth Pennsylvania, was dismounted and pushed forward as a line of skirmishers to within a short distance uf the railroad. The woods were thick along the roadside, and the railroad at this point ran through a cut, from foree to four feet deep. Persolds' brigade of infantry was posted in the cut and extended beyond both flanks of the Cnion skirmish fine. Seeing this, the Fiurth C. S. Cavalry was detached to extend and protect the flanks. whe squadron to the left and the remainder to the right. It moved into position at the gallop, and was dismounted and mored forward at louble time. When near the railroad the Confederates tired a withering roller, and springing from the cut. With a yell charged over the skirmishers and were only checked when another brigade was hronglit into position, and with the aid of foup pieces of artillery.

While the head of the column was receisfog such roagh treatment the rear was attacked by a portion of Clebdranes infantry and Ross and Ferglrsos's caralry, driving torward to the forks ot the road before mentioned, where line was formed by the rear division, and. with the assistance of four pieces of artillery, the advance of the enemy was checked.

The position at this time was about as follows: In the rear of the Union troops were two brigades of Cleplennes infantry. Ross and Fergcrsons brigades of cavairy and about a thousand State troops, which had been sent up from below tovejoy; closing in on the right were the remaining brigades of Clebtrne's infantry. Martis's and Jackson's divisions of cavalry wefe in rear of the left. 1 brigade of infantry and six pieces of artilery had been sent up from Macon, and were at Lovejjoy Station. Reynolds' infantry, as before stated, was along the railroad in front. There were also twelve pieces of artillery which had been sent down from Atlanta. It thus seems that there were surrounding the Union troops five brigades of infantry, eighteen pieces of artillcy, and six brigades of cavalry; in all, a force of twelve thousand $m$ en of the three arms. As before stated, Kilpatrick bad the Second D vision with four pieces of artillery, (at this time one disabled) and the Third Division with four pieces of artillery; in all 4,798 cavalrymen and seven guns.

Finding himself completely surrounded bych an overwbelm-
ing force, he called his division commanders together and instructer them to cut their way out, designating as the point to ofrike, an old deserted plantation. We see that up to this point, flthough his command was composed eketusively of caralry and fi\&ld artillery. the cavalry had been fighting almost pntirely as infunty; but now his troopers were to be ackorded the privilege of a cafalry charg. in its true sense, and their sabers which had been allowed to rust in their acabbards during the expedition, were to be broug tinto requisition.

Kilpatrick, a cavalry general, remembering the miltakes which had been made on a formen expedition for the same purpose, instear of scattering his troops, passed them. Colonel Mingy, with thic Second Division was ordered to form on the right of the McDonoush road and Colonel Merray with the Third Division on the left. both facing to the rear, that is, toward McDonough. One restment of the Third Division had been left in the rear to hold in check Reinoliss infantry about the railroad cut. The Second Disision was formed with Colonel Minty's brigade in front, in line of regiments in column of fours, with regimental interval. The Seventh Pennsy vania on the right, Fourth Michigan in the center and the Fourth U. S. on the left. Orders were given Qolonel Lond to form his brigade in close column of regiments in rean of the leading one. There sfems to hatre been either considerable confusion or disobedience at $t$ is point, for Long, in the charge, followed the leading brigade in col mn of fours and the Third Division, after a gap was made along the roat, took up the march for McDonough. The ground фver which the charge was t" be made was cut up with tashouts and crossed by twd rail fencer. The Confederates had formpd in three lines about fifty yards apart and constructed barricades of fence rails. While these preparations: were being made the troops were exposed to the fire of foo battericof artillery, one in front and one right front. When th charge was sounded the First Brigade bore down upon the Confederates, break. ing throngh the fences and riding over the first and feeond lines. scattering and sabering the men and capturing their arfillery. The third line broke and fled in confusion. The Confederate cavalry, it soems, did not wait for the contact, bul fled before the qharging columns reached them; the firgt two linesistood firm keeping up a continuous fire until ridden dopn by the chvalry. After the charge the Third Division took up the march through McDonough, the Second Division being instructed to cover the retreat. No effiprt seems tu have boen made to ascertaiq the number of killed and rounded, or to capture many prisoners, and most of those taken were allowed
to escape. Powsibly Kilpatrick did not care to be burdened with them, as the sole object of the expedition whs to destroy the railroad. It is, however, claimed by Vale, that at one time there were at least four thousand Confederates killed, wounded $q \mathrm{r}$ prisoners in the Union hands. Colonel Mintx says that at least eqhit hundred Confederates cere sabered, and the Confederate buttery an about six hundred prisoners were captured by the First Brigade.

The following is an extract from the lemphis Appeal, Atlanta, Georgia. early in September 1864, and is inswred as the only account of the affair at Lovejoy from the Confederale standpoint that $I$ have been able to obtain. It will be seen that the necount concerning the conduct of the Confederate cavalry differs materially from that of the Union commanders:
.. The nerspapers hate lately been full di accounts of how Martiv's division of caralry was run over by the Yankees at Lovejoy on the 20th ultimo. The writer was on the fifld on that oceasion and in justice to the much abused cavalry state. the facts in the matter: Martin's division supporting the battery was formed on the McDonough road. Ross' and Fergersos's copamands on foot were in front and on each side of the battery, behind rail breastworks. A brigade of Clebtrnes infantry was on the left of the road in three lines, the last one in a piece of woods. Ibdut one hundred yards in rear of the position of the battery, on the right of the road (east side) the State troops were formed in line. When the Yankees charged they came in a solid colamn, ten or twelve ines deep, running their horses and relling like devils. They didnetsitop to fire or attempt to keep any kind of order or formation, but each fellow for himself rushed on swinging his saber over his head They rode right over Ross' and Fergurson's men in the center and over and through Clebtranes lines one after the other on the left. Clebcranes firstline, they say, tried to use their bayonets. but the Yankees cut them to pieces. After the Yankees had cut through all the other forces and captured the battery, Martin, seeing the fild was lost, retreated in good order to the east and joined Cleberne s main body, and aided in the final defeat of the enemy on the Mcponough road that evening, and pursued them to and through McDonough that night, recapturing nearly fire bundred of our men which they took in the charge. The effort to arouse the people against Matrin and his brave division is more disgraceful and demoralizing tan the Yankees charge itself, and should be frowned upon by all who wish well to our cause."

The command being under way toward McDonough, Colonel Lova was directed to cover the retreat with his brigade. The Confederate troops from about Lovejoy coming yp inade a furious attack upon this brigade, the fight lasting nearly t to hours. It was finally withdrawn with a loss of ten per cent. of the men killed, and its commander seriously wounded.

The Confederates followed for some distance but wre held in check by the rear guard of Lova＇s brigade，consisting of tiro regi－ ments and two pieces of artillery．Both guns becoming disabled were withdrawn，and a heary rain setting in，the Confederate attack ceased．

The column passed thropgh McDonough about milnight and made a short halt at Walnut Creek aboul 2 o clock A．M．；but bs the time the rear of the command had closed up，the march was resumed and Cotton River was reached about if a．M．The heastry rain had so swollen this river that the bridge was carried awar，n cëssitating a delay of about two hours until the stream subsided，fter which it was crossed by swimming the horses，a number of fhich．with many pack animals，were drowned．It being impractidable to get the diagbled cannon across，the wagon in which they vere beins transponded was destroyed and the cannon burient and the fite marked as the graves of two soldiers of the Fourth C．S．Cavaly．ithis and tiresome march was keptup until after dark，when the commanil birouacked at Lithonia on the A ugnsta rablroal，and here dhtained the much needed rest and sleep，of which it had been deprised since it－ departure from sandtown on the 1 sth．

On the following day the $22 d$ ，the march was continued through Latimer and Decatur terminating at Peach Tree Creeh thins com－ pleting the circuit of both armies in five lays．The casualties in the Second Division were ：total，officers 14 ，men 192 ．I hate not been able to get the same information regardi g the Third Dibsision．

General Sherman says in his＂Mempirs．＂that on K／fpatrick：s return he reported that he hay destroyed three miles of rallroal．etc．． which it wauld probably take ten days to repair，but that rains were seen on the following day，the 23d，runqing into Atlanta，so he be－ came more than ever convinced that caralry could not on would not work hard enough to disable a railroad properly，and therefore re－ solved at once to proceed to the execution of his original plan．The ＂Rebellion Records＂not beidg in prinu for this period．a d not hav－ ing access to any official documents，I hape taken the accopunts of thi， affair from different writers，all of whom \＆gree in the main features of the raid，but vary somewhat in the details．
w．s．scdTT，
Second Lieulenant，fir，Ca vulry．

A NEW LECTERE ON THE HORSES FOOT．

$\mathrm{I}^{\mathrm{r}}$every stage of human progress the howe has been an important power，aiding independence and the derelopment of commerce． The pony express carried mail from San Francisco to St．Joe with awiftness nearly equalling steam；Virgil ipmortalized the sound of the ringing hoof in song and rhyme；Bes Hur won the race with a team whose lineage records filled a trunk with ivory tablets；a Roman emperor built a palace for his horse；a legend tells as of a horse shod with shoes of gold；and Childeric，chief of the Salian Franks， of the lower left bank of the Rhine，fathor of Clovis，first king of France．is recorded as having shod his horse hoofs with iron， $481 \mathrm{~A} . \mathrm{D}$ ．

We hare dereloped the horse in neary every way except the very important one of increasing the stre⿻日土寸俭 of his hoof．In fact the hoof is weakened whenever we attempt to protect it with iron in the present orthodox manner．

We have but to compare illustrations $\cdot A^{*}$ and ${ }^{-} B$ ．＂to be con－ rinced how completely our efforts fall short of their aim，and how crippling the results produced by persistence in the present practice．

The former ${ }^{-} A, "$ is a natural unshod foo which remains unaltered throughout life；the other $\cdot$ B．＂is a hopelessly contracted foot，the painful result of our ineffectual efforts to make the horse stronger and last longer by shoeing．

Lameness interrupts the horse＇s continued usefulness more fre－ quently than any other weakness．We hape hunted for the cause of this trouble in fast driving．hard roads，bad workmanship，worse shoeing－all in rain．and concluded that i is a constitutional defect more flagrant in some rarieties of horses than others．

That a horse must be shod to be cont ouousily serviceable in all localities is a fact taught by centuries of efperience．

The natural hoof shown in illustration $\because(1, \cdots$ taken from the En－ （yclopedia Britannica and $\cdot \cdot$ D，＇photographed from nature，admirably exbibit the order of the details we are about to examine．

Underneath the last bone－the bone of the foot ${ }^{2}$－of which the
tips are enfolded each by a blue cushion, we find the thick yellow - plantar ${ }^{2}$ cushion; beneath his is a thigk pink tissue, ${ }^{3}$ the sensitive sole, and underlying this, the borny sole and frog * closipg the horn box which constitutes the hoof.

I will point out the nature and relation of the princinal details of the ground surface of the hoof, that we may instantly recognize any departure which another foot may present. Turn to " $A$ " and " $F$ "; measuring over all, the width is greatef than the lengtb

The sole proper ${ }^{2}$ is cresceut shaped and has a boriontal grain along which the scales sepparate when it becomes redundant. The wall ${ }^{2}$ and bars ${ }^{2}$ whose grain is up and down, enclose the sole proper. as a continuous rim. At the heels the prall and bar mahe with each other a horizontal angle of eighty-foun degrees for the outer, and seventy-six degrees for the taner heel.

The bars incline toward each other in the triangulhr space be. tween the heels, with a pitch from the rertical of sixty-tulo and sixty degrees for the outer and inner respectively, and the ridge space between them is filled in by the frog. See section "D."

The hoof that is never sind retains fhe relation of parts pointerl out as constituting the ground surface of the foot "A" of "F"; but as soqn as this foot is stodi in the custourary manner, changes set in, altering it thas:

The horizontal angle between wall and bars becomos less; the inclination of the bars toward each other becomes less also-they tend from this nearly horizontal positon to become upright; the length of the foot becomes greater than the width, and the broad heel becomes narrower and groms higher in spite of the effor to keep it cut down. See "B."

After sevęn or eight yeark of constant shoeing, and wofk like that done by the car and cab horse, the hoof becomes like tha in " B, " in which the bars have becomp rertical, and thus ceased to be an clement of safety and strength

Having lost their broad, mearly horizontal, flexible pofition, they now stapd upon edge, pressifg into the quick at every ste , and are a source of torture. Indeed, any day ve can see a hores standing patiently in the street, easing and significantly pointing ope foot and then changing off to point the other.

Take such a horse to the dmith's, and the smith will declare, after examination of the hoof, that there is nothing the matte with the horse. Nevertheless he is suffering with what may be aptl described as an aggravated case of "ingrown toe-hail."

When barefooted, the entire plantar surface reaches the ground.
but when shod, the wall only reaches the gound by means of the shoe; the rest, i. e., the bars and frog, is held above the ground and is thus without direct point of support.

Let us examine the track of the bare foot made in half hardened mud or plaster and ascertain whether the feight carried by-it is evenly or anevenly distributed: then what part of the plantar surface carries the most.

A glance at " $E$ " shows us that the load as unevenly distributed, for parts of the plaster have been made vert dense and smooth by pressure, and contrast strongly with the rest, which carried less weight and so remained rough and pitted. The imprint of the bars shows that they carried the greater weight, which is astonishing in the light of the usual shocing practice, for hey are ordinarily cot away and never permitted to rest on a firm support. The transverse section of the hoof (" $D$ ") enables us to appreciate the strength and carrying capacity of the bars, for in this they form an arch keyed by the frog.

We know that the greatest wear and tean are at the place where the greatest pressure ath strength are exerte ; and from this inspection of the track we deduce the following rules for guidance in shoeing:

We must not cut away the bars, neither feave them without solid support in mid-air, but we must include the in the weight bearing surface, and give them shoe bearing the sam as the wall. To obtain this it is only necessary to widen the iron a the proper place, so as to spread over the bars as well as the heel.

My task ends with this recommendation: to shoe the bars as well as the wall. This is not an innovation, ps the barefboted horse usually carries his weight on the bars and he point of the toe; for the quarters and sides chip and break away, while the bars, on account of obliquity, flexibility and location, re subject to wear only, as is clearly shown in "F." It is the priv lege and daty of every lover of a horse to verify the foregoing fadts, provided bis experience does not already attest them.

Let us now carry our investigation to the iron surface which replaced the ground in the immediate touch with the plantar surface of the shod boof.

Here is a well worn shoe " $G$ " with large heel marks.
The estimate of size, depth and outline of the marks can be gained by seeing and feeling. We discover that the sides slope unequally; the steeper is found toward the outside of the shoe, and the gentler slope extends toward the inner side.

This shows that the heel which, as a rule, makes a angle of forty degrees with the ground, and approaches the horifontal still nearer while put forward in caking the step, glides along the top of the shoe in the direction corresponding to the inclined postion of the horn of the heel.

The mark is a fact. The moring or yielding of the horn is also a fact, for it cut the mark, and, as this mark is deeper neat the outer edge, and, as the direction of the horn is forward, the sie ding must be forward and under.

Again, let us examine the nail- holes at the quarters and those next \$o them. We find that the reftangular form of the hole has been destroyed on the inner and forward side by the rubbing of the nail. See "G." This shows that at the quarters the horn spring or yielisinward. These marks written on the iron. tell us then n positive terms that at every step the hoof yield $\$$ under and inmard, being firmly compressed with every effort made by the horse parogres sion.

We have already seen that the bars form an elastic arth of horn closed at the top by the frog. See "D." That this arct yields :t every step is proclaimed by the mark on the shoe " H , ${ }^{\prime}$, where the base of the arch rested. The mark is there, so the yied fing must have taken place. This yielding of the batr may be easily yproduced by a light card-board model of the hoof.

When such a model is subjected to a gentle blow, or a thoderately exerted pressure, we shall see the heels yifld forward and hander. the quarters spring in, and the bars take up a compensating displacement which makes them nip the trog with a shearing action. The combined action of the bars and frog tends to dissipate all blows into borizontal components. See Figure "K. $\dagger$. Now we alkk fow that a hurse will go lame very sood with a "picked up" pebbl between frog and bar; for this pebble so placed, seads the blow of \&very step directly to the quick by spreading the areh apart at the summit.

We understand now why the hoof with unimpaired bar. can stand the temporary loss of the external fros, through dry thrush or atrophy, and not be painful on lose strength.

On the other band, in the contracted foot, in spite of carupulous cleanliness and careful nursing, the frog will wither becaus deprived of the stimulating action of the bars.
the pactical thot.

Horses in Troy and Albany, New York, have been shod agreeably to the foregoing principle for pearly two years now, with satistactory


E


results. The shoe "I" is shaped to satisfy the principle, and in addition possesses length of metal for shoein with calkins.

On the worn shoe "H," the bar has writt $n$ as empbatic a mark as the wall has. No argument is therefore needed to prove that a part of the plantar surface of the foot which records its usefulness so distinctly ought not be cut away; and, furthermore, no horse can be deprived of its use without impairing the strength and value of the animal.

The practical use of the adrocated principle will extend the endurance of shod hoofs so as to be coëval, like the barefooted hoof, with the natural length of the horse's life.

First fieutenant, Fifth Caralry.


To know how to sare the strength, both of horse and rider over such an enormous distance speaks for itself; fnd it is not at all remarkable that, ererywhere, military men hon r Peschiof as a welcome guest.

By passing the 5400 miles he showed: Fi st, The possibitity of traveling day by day for more than half a y far on a single horse, with halts not longer than a night; Second, That a borse, well cared for, can go continuously 193 days without losing anything in weight and without becoming fagged or sick; Thind, The possibility of making marches during bard winters with a emperature of many degrees below zero, through snow-drifts, snow-storms, etc.; Fourth, To the Military Department, a direct route frop Blagovestchensk to St. Petersburg, indicating all the advantages ard defects of the road; and Fifth, By personal experience, that another "impossibility" has been rendered possible.

## THE START FOR THE JOLRNET.

The cold ànd severe Siberian winter had juft begun. One evening in the far distant town of Blagovestchensk, (situated on the rirer Amoor) which the post, from St. Petersburg, requires two and onenalf months to reach - there was an assembly of officers in consequence of the news respecting the journey of Cprnet Asseef to Paris on two alternating borses. Much was said for and against the object of such ap excursion; many jokes and jests we e beard. The month of November came on and the first few lines relative to Asseef's journey arrived at Blagovestchensk after the c ose of the Paris exhibition and when Asseef was back at St. Petersburg. From Omsk, the Siberian center, to Blagorestchensk there are over $\mathbf{3 3 0 0}$ miles of the most dreadful road without any proper means of communication. Here, one may find bundreds of miles without abitations, thousands of acres of forests and waste grounds; inosom places roads, in the shape of tunnels, are cut through the thickest forests in which, for a distance of many miles, no daglight can be see . Almost the entire population of these forests is composed of wild beasts and fugitive convicts.
$\because$ According to my idea, there is no glory in making a journey to Paris; I intend to undertake a trip to St. Peqersburg on my 'Seri' (gray)" remarked Pescheof, who was at the assembly when the first news of Asseff's journey arrived at Blagovest hensk.
" What a joker that Peschkor is," laughed his comrades.
. I am not joking; I seriously intend to tale a ride to St. Petersburg,' replied Pescheof.
"Is it possible to make 5400 m les on one horse prer such roals as we have?"
"I think I can, and that is why I want to try; and why not? On $m y$ 'Seri' 1 often make orer fifty niles for pleasure and at the end of the ride the horse seems as livelfy as when first brpught out of the stable."
-And here, you baqe 5400 milds! Fifty miles uo all often make with ease."
"Nonsense, gentlemen! The greater distances can also be maule in a reasonable time."

The longer the conversation continued the surer Heschiodr became of the possibility of accomplishing the journey, and fhree days afterwards he made application to his fommander for sit months leare.
"Why do you want so long a leave?" demanded the commatider.

- I wish to ride to St. Petersbufg on my horse.'
"What?"
"I should like to trk, for I think I can do it."
"Now, at the sererest time of winter! But do you know what awaits you in these wild deserts with snow-storms and the temperature at present many degrees below zero?"
.iI know everything; I ám not afraid and, with God's help. will realize my intention."

Peschiof was inexorable. The commander dd not refuse him the leave, being of the opinion that the sotnik would change lis mind on the road and fronld surely return from Ir futsk.

Threo days were taken for preparation and early on the morning of Norember 7 th, Sotnit Pescheor, latler the "Te Deum" in the church of Blagovestchensk, jumped into his saddle and tarted off on his ride to St. Petersburg.

The day promised to be severelf, cold but Pesch fof was so lighty dressed that one might have supposed that he was going to take a ride around the town.

The farewells were of a sery hearty, cordial character; all the officers with their families, the population, and erep the soldiers. accompanied their bold siberian fellow countryman fown to the g:ates of the town, where Pegcheof bowing on both sides, gathered his reins and put bis "Ser " into a fugl trot.
"I will write my fill in St. Betersburg," laughed Peschrar in sending a last farewell to his friends.


PERSONALITY, BIOGRAPHY AND LIPE OF SOTNIK lescheof.
Who is Peschoor? asked every one when the first news of his journey arrived at St. Petersburg.

Pescheof is a Cossack officer and that is al ; but, in examining him quite closely, we see an iron will and character; he is deeply religious. He is an Amoor Cossack by origin. native of the Albasinsk "stanitza" (Cossack villages), hardened by the rough nature of $\mathbf{S i}$ beria. He did not prepare himself for military sersice, but when a boy entered as telegrapher at the Cpper Amoor M ne Telegraph Station. The quiet, peaceful service of a telegrapher dd not satisfy the stirring and eager disposition of the present hero
"I want to be a Cossack officer," said he tp himself, and in five years realized his dream. With great difficulty manuals and elementary books were received, and, in two years, he prepared himself, without any help of others, so well that he eatily passed the examinations for volunteer and entered the Irkutsk Military School. Three years were passed in studies and Peschkof, bav ng admirably finished
at towns lying on his road, was more than thirty-seven miles; there were days when he made forty-six miles, atd once near Kolyvani, wen fifty-six miles. The average rate per hour was about six miles.

sotnik pescikef and his hohes.
The following description of its gait was giten by Mr. Proksaef, a well known Moscow correspondent:
"Sotnik Peschkof's horse has a remarkable walk; we could keep up with him only by running. After four-on fire miles. when the rider jumps off of it and runs about tro-thirds of a mile, the walk increases and it is hard to overtake it even at a run."

The saddle is an ordinary Cossack saddle, possibly heavier than

The second section was a distance of 323 piles, (one of the most difficult, and sererely tested the strength and will of the sotnik) to Pokrorsky, situated at the junction of the riven Schilka and Argunin.

The last days of November came on; the reather was cold, with -normous snow-storms every day: it was difecult to move and the rider hardly made twenty-six miles a day, notwithstanding that be Blowed the post road which was altogether lost in deep snows in which "Seri" seemed to founder.

The third section was a distance of 390 mpiles to Stretensk; this stage was also very hard on account of the dold of December; the p"pulation here is rery sparse; often in a 中de of ten to thirteen miles no house can be found. There were passages of twenty to twenty-six miles along narrow paths cut throfigh dark forests.

The fourth section of $\mathbf{2 7 3}$ miles, the jour hey to Verchneudinsk, in the rivers Uda and Selenza, was also dificult ; he had already jassed 1326 miles, the horse was in the sam admirable condition.

The fifth eection to Irkutsk. a distance of 295 miles; be arrired here in January and, on the next day after his arrival, he fell ill and was compelled to remain two weeks on account of "la grippe," (influ(117:1).

The sixth section to Nijneudinsk. of $3 \supseteq 1 \mathrm{~m}$ les, was passed during $\because$ the most severe January (or Stretenski as they are called here) colds.

The serenth section to the town of Atchinsk, on the river Tchulima. a distance of 456 miles, was one of the ongest and was made in sixteen days.

The eighth section to Tomsk, 257 miles, whe made with the same ditticulty.

The ninth section to Omsk, a distance of 581 miles; he arrived there on the 27 th of February, or 113 days fter his start, having made 3252 miles.

Here, by order of the commander of the military district, the hurse of Sotnik Pescheof was examined; its body looked well, the hack was in perfect order without bruises, on $y$ a small quantity of hair near the hoofs on the left feet seemed to hare been rubbed off.

The tenth section, a distance of ninety-on miles to Tyukalinsk, (government of Tobolsk) was passed easily in hree days; be stayed half a day in the town and then went on.

The eleventh section, very small, of 126 miles to Tschim on the left bank of the river of the same name, was pade in four days with more comfort than before, for the dreadful etorms and cold had crased.

The twelfth section to Yalatorosk, on the river Tobla ( $\mathbf{5} 6^{\circ} 39^{\prime} \mathrm{N}$. longitude and $83^{\circ} 59^{\prime}$ latithde) a distance of 148 mileof was made in six days during beautiful freather $\mathbf{\pi h}$ ch. however, wal not good for the horse.

Spring commenced andi "Seri" was getting tired neverthelews the rider did not want to make any more long halts, wihing to tinish the journey in as short a fime as possible.

The thirteenth section to Tyumen of fifty-four mile, where he arrived on March 27th, was made comfortably; "Here" said he, "it smelled Europe," and the road was thenceforth without danger: here he stopped only a fet hours and then went on to Perm where he arrived on April 1st.

The fourteenth section of 301 milds, from Perm to Kasan. paral. lel to Kama river, throug ${ }^{\text {V }}$ Vatka gopernment with its well known forests, was less populated than the Cral, but was passed without misfortune; this passage is the most difficult in all Eupopean Russia as there are hardly any roads. The rdder arrived at Kasan on April 12 th .

On April 17th he arriged at Mosqow, not stopping at Vladimir and other towns situated hetween Kakan and Moscow. be was stopped till May 4 hand then continued his j Petersburg, passing by Valdoi, Jver, Yovgorod, Lübang et

When the rider was approaching Lüban he was net by one of the lientenants of the Imperial Guald, Cossack Regipnent, who. at fifty-three miles from St. Petersburg informed him pat the commander of said regiment, as well as the officers, would be pleased it be would accept their hospitality and stop at the quarters of the regiment during bis residence in St. Petersburg; wb ch invitation Sotnik Peschkor accepted.

The last halt of Peschar before the end of the jourhey, was male in Josns, twenty miles from St. Petersturg, where he aprived on Mily. 18th.

Here, when unsaddling his horse, h\& beard a band approaching the village; on going' down the road be met a beautiful catalcade of oticers of the Cuirassier Imperial Regiment, accompa ied by their commander, who met Pescpinof with the following wo ds: "Sotnik Pescakof! In the name of all, both officers and soldidrs, of the Lite Guard Cuirassier Regiment of His Majesty, I am glad fo meet you :aan unexampled cavalry oficer. You have once mor proved that nothing is impossible for a Russian Cossack; your na ne will never die in the history of Russia, Cavalry! Good health to \$otnik Dmitni Peschior!" "Hurrah! 耳urrah!" was the reply of fil those pro.
AN C'NENAMPLED RIQE.
ent. Then addressing himself to the soldiers who accompanied the mavalcade, the commander continued: "Solditrs! Before you stands a Cossack from the far Amoor regions; he is fotnik Peschiofor of the Imoor Cossack IIorse Regiment; you must nefer forget the name of this officer who, on one horse, has made more than 5000 miles from Blagovestchensk to St. Petersburg." "Hurrall!" was the reply of the bold Cuirassiers, and the band played t/e air of the Meeting March.

Early on the morning of May 19th the sotnik arrived at St. Petersburg, where he was met by a large crowd and many local regiments: this day seemed to be a holiday as many shops were closed, the employes of which went down to meet the rider.

On May 22d, he was invited to a dinner offered him by the Caralry School, the chief of which. together with the assistants, presented to him a silver cup with his name engrared of it.

On May 28th he had the honor to be presented to the Emperor who knighted him with the cross of St. Anife, Third degree. On the same daysthe society for the Protection of Animals presented bim with a gold nedal, and a diploma as honorary nember of said societs.

On June 6th. havin ${ }_{5}$ been informed that he would be atiached for several years to the Caralry School of St. Petersburg. he, being rery riligious, as has been said, went awny to Jerualem to pray.
st. Petersberg, Ressia, August t, 18 io.
a. s. kovigin.


5i1. In whaterer direction the regiment faces, the squadrons are designated from the right in line, and from the head in column, first "u"Idron, second squadron and third squadron. The troops are desig. nated by the colonel according to their squadqon and position in the -phadron; as second (or such) troop, first (or fuch) squadron; etc.

If in two lines, the squadrons of each line afe designated from the right in the first line. first and second; in the eeond line, third.
sis. All morements should be executed ht the trot, unless the ...olonel commands or signals walk or galiop.

## The Colonel.

873. The colonel is the instructor. In line. and in line of columns. he takes post sisty yards in front of the center of the regiment; in line of masses, thirty yards in front of the center of the regiment. [n column, sisty yards. and fin column of maspes, thirty yards from the center of the column on the side of the guide. Generally. he hoold be where he can best superintend his degiment and make his commands heard.

## The Lieutenant-Colonel.

xat. In line, in line of columns and in infe of masses he takes fint thirty gards in rear of the center of the degiment. In column, hiw is abreast ot the center and on the side op cosite the guide, thirty sathls from the fank.

Daring field movements. the daties of the lientenant colond are In asist the colonel, as the latter may direct. a dal he is mot restricted thaty particular post.

## The Squadrm Commander

sij. Lach squadron is commanded by a pajor.
sit. The major takes post as in the sechod ot the Squadron. except in line of masses, but much latitude mus be allowed in regard (1) his position. He must ride wherever be fan best hear the colonel: commands, make his own heard. and suprintend bis squalron.
$\therefore \pi$. Fach major gives the commands ngeessary to insure the execution of movements by his squadron at the proper time.

5:8. Unless otherwise ordered, latitude wi be allowed the squadroll commander in maneuvering his equadron thto position. Methods given in the text should be followed. unless cirtumstances, such as the coutiguration of the ground, etc.. suggest shorker and safer ones to accomplish the object of the movement, when hephould not be required th comply literally with the text, so long as le uses movements prerribed in the School of the Squadron, e. g.: In the maneuvers for
forming line from colunn of fours. where it is prestribed that the squadrons shall more opposite to their places in line by obliquins by the heads of columns the major may more the squadron in column of fours, and vice cersa.
879. A squadron may stand at ease (Par. 315) while awaitins the completion of a movement by the other squadrops.

Staff and Non-Commissioned Staff.
880. The staff officers, sergeant major ant chicf truinpeter ar. company the colonel; the adjutant rides on his left the other stat officers are in line, in tho order of rank from right to left. six yariin rear of the colonel and adjutant; the sergeant-mador, chief trum. peter and orderlies, three yards in tear of the staff pticers.

In line, the non-commissioned statf except the fergeant-major. and the regimental non-commissioned officers except the chief trump. eter, are in one line in the order of rank, the senior on the right. abreast of the rank and six yards from the lett flank: whon the regiment faces about, they turn about individually, but do no change to the other flank. In column they are six yards in fron of the chief of the leading sub-division or twelve fards in rear of the rear suldivision, according as the column was formed towand or away from their flank. In marching by the flank of subdivisions they are abreast of the nearest sub-division.

Except the adjutant and sergeaht-major, the staff. non-commisioned staff and regimental non-comquissioned officers may be excused from the regimental maneuvers other than ceremones.

The Bapd.
881. In line, the left of its front rank is sixteen yards to the right and in line with the rank of the first squadron

In column, it is sixteen yards in front of the offigers of the learl. ing sub.division.

The band may be exqused from egimental manequers. or it may. be assigned a position on the ground.

The Gunrd of the Standard.
882. The guard is posted as the left four of the center or right center troop of the center squadron, or of a single squadron; if there be but two squadrons it \& posted as the left four of the left troop ot the first squadron.

88:. In route marches, the colonel is at the heat of the column accompanied by the staff except the surgeons and quartermaster, and
ly the non-commissioned staff. regimental non-commissioned officers and orderlies. l
The lieutenant-colonel and the surgeons afe in rear of the column. or as the colonel may direct.

The quartermaster is with the train.
The colonel may direct the standard and is guard to march at the head of the regiment, in rear of the orderliep.

## General Rules for Commald.

884. The commands of the colonel maybe giren br message.

In the evolutions of the regiment, the licutenant-colonel, if commanding a separate line, and the majors unkess otherwise directed. repeat the commands of the colonel. The preparatory command of the colonel, is repeated as soon as given; each major then adds such commands and causes his squadron to execute such movements as are necessary to the execution of the general movement.

The colonel may preface the commands fo each movement by the command: Attestion.

When the regiment is in more than one line, if a movement is to be executed by one of the lines, first line, second fine or third line is specified in the preparatory command of the colopel: the squadron com manders in the designated line repeat the commands of the colonel.

Where the formation will admit of the sipultaneous execution of morements by squadrons. the colonel may have them execute the movements prescribed in the School of the Squadron by prefixing the command: Squadrons, to the commands the ein prescribed.

The colonel may designate a squadron to exceute a separate morement by prefixing the command: (Such) squadron, to the commands prescribed in the School of the Squadron.

Where the formation will admit of the sinultaneous execution of movements by troops or platoons, the moren ents are executed as in the School of the Squadron, the colonel gir ing the commands prewribed for the major, except that in announc ng the guide, in line or in line of columns, be commands: (Such) the base squadron.

## To Form the Regiment.

885. The regiment is formed by squadrops according to the principles for successive formations. It may be formed in line, in line of platoon columns, or in line of masses, at the fiscretion of the colonel.

It may also be formed in separate lines, of in echelon in any combination of the above formations.

When forming, the squadrons are posted in line from right to left in the order of the rank of their squadron cpmamanders present, the
senior on the right; or ane posted in suci order as the colonel may. direct. A squadron who\&e major is in command of the regiment retains its place.

The interval between squadrons if line is sixteen fards.
To receire the regiment, the colonel takes post facipg the center the staff, non-commissiondd staff and regimental non -ommissionel Qicers then take their poats.

The adjutant indicates to the adjutant of the base squadron the point of rest and the direction of the lime, and takes pos about thirty. yards in front of the center of the regiment.

The formation completed, the adjutant commands: f. Squadrom.. 2. Attention, 3. Drav, f. Saber, a. Present, 6. Saber, turns to the front, salutes the colonel and repots: Sir, the regipent is formed.

The colonel returns the salute $w$ th the right hadd, directs the adjutant: Take your post, gir, and draws saber.

The adjutant moves at a trot or grallop and joins the colonel. par. ing by his right and rear.

To Rest and Dismiss he Regiment.
886. The regiment is rested and colled to attention as in Par.31.). sobstituting squadrons for squad in the commands.

To dismiss the regiment, the colonel commands: Dismiss ifinit squadrons.

Each major conducts his squadron to its parade ground where it is dismissed as prescribed.

To March \& Line, or Line of Columns
887. The colonel maydesignate the point of direction (Par. i.)

Being at.a halt: 1. Foricard, 2. Second (or such) the base squitil. ron, 3. March.

The guide of the designated squadron selects nevepoints on th.. ground as he advances; the other squadrons regulate their marri upon the pase squadron so as to prese ve the intervals and the align. ment.

The major of the desighated squadron commands: Guide centi, mejors of squadrons on itos right conmand: Giuide lft; majors ut squadrons on its left command: Gimd right.
888. In changing front, or in obliquing, the squadron on thi. flank toward which the morement is being made, is the base squariron for the time being.

To Fape the Line ty the Rear.
889.. 1. Face to the rear, -2. Fours night (or left) abolet, 3. Marcil.

Each major halts his squadron as the fours unite in line.
s90. 1. Fours right (or left) about, 2. Harch, 3. (Such) the linse squadron.

To Halt the Regiment.
v91. Beging in march: 1. Squadrons, 2.

## Alignments.

s:12. Being in line at a halt, to give a general alignment, the colonel selects a base troop, posts its guidon fnd principal guide opburite the point of rest in the desired direction. and commands: 1 . (i, idides on the line, 2. On the center (right or fift), 3. Dress.

At the first command, the guidon and principal guide of each troop post themselves as in forming the squadron, taking cire to preserve the intervals.

At the command dress, each squalron is Aressed as in Har. 716.
If a squadron be at a considerable distance from. or in front of the position it is to occupr. its major will, at the first command more it into proper position tor dressing.

> Being in Line, to March by the Flank.
su3. 1. Fours right (or left), ㄹ. March
Being in Line at a Balt, to Break into Column \&f Fours from the Right or Left, to March to the Left or fight.
:94. 1. Column of fours, …Break from the right (or left) to march ti, the left (or right), 3. Marci.

The first squalron executes the movemen (Par. $7=0$ ); the other -gualrons follow successively at the command of their majors, each cerenteen yards in rear of the one preceding.
s93. The regiment in column of fours, forms line to the right or left. udicances. obliques. changes direction, and marches to the rear as prescribed for the squadron.
s.96. The movements from column of ours are explained for "xecution on the march, but they may be expecuted from a halt.

Successive Formations.
897. In successive formations of the reg ment. the completion of the movement should find the regiment halted.

The adjutant or sergeant-major of each quadron precedes it to imbirate its point of rest.

The guidon and principal guide of the base troop of the base "qualron are first established.

The guidon and principal guides of the leading troops of the rear
squadrons are established on the geperal line，the nearest guidon being at the proper interfal from the flank of the squadron next preceding．

898．When in two or more lines or in column of squadrons．the normal distance is squadron front and seventeen yards this may be increased or diminished，the colonel adding to his fint conmand： At（so many）yards distange；or the colonel may send orders to tie． commanders of the second and third lines specifying the distance for may send a stafi officer to indicate the point of rest

When in two lines，the second line in all maneurers preserves it－ position relatire to the first and conforms to its moren ents．

Being in Column of Fours，to Form in Fwo Lines to the Fight or Left．
899．1．In two lines，2．Fours right（or left），3．Thitd（or such pquadron，second line，4．MARCR．

The first and second squadrons form line to the right and halt． Fhe third squadron inclines to the left until it gains fhe required distance，when it resumes the original direction，and is formed $i_{1}$ ine to the right and halted with its center in rear of the center of
he first line： the first line

Being in Two Lines；to March in Column of Fours．
900．1．Column of fours，2．First Line，3．Fours right（or lerit）： or，3．Right（or left）forward，fours right（or left），4．HaRch．The quadron commander of tie second line adds：1．Fours right．． Marci，or breaks into coldman of fougs to the front $\begin{aligned} & \text { Par．785，in }\end{aligned}$ ime to follow the preceding squadron at the proper distance．The． qquadron is marched by th申 shortest line to its place in column．

Being in Column of Fours，to form On the Right or Left frto Line．
901．1．On right（or left）into line，2．March．
The leading squadron executes on right into line；each of the other quadrons at the commands of its major，executes the same muv． nent when its leading four has passed thirteen yards bo fond the lutit tank of the squadron precefing．
Being in Column of Fours， torn in Tho Lines on the R 中ht or Left．
902．1．In tuco lines，2．On right（ot left）into line
902．1．In turo lines，2．On right（or left）into line，及．Third（ar such ）squadron，second line，4．Marce．

The first and second squadrons exedute the moremept as in Par
 tance（Par．896），when it resumes the original directio，and form－ on right into line so as to be in rear of the center of the first line．

Being in Column of Fours，to Form on Right or Lft into Line by Squadrons． 903．1．On right（or left）into line by squpdrons，2．Marce．
The first squadron is wheeled by fours to the right and is halted after adrauring thirty yards；each of the other squadrons marches hesond the one preceding，is wheeled by fofurs to the right at its proper interval，athe is halted on the line．
Being in Column of Fours，to Form in too Lines，on the Right or Left，by Squadrons．
904．1．In teo lines，2．On right（or left）into line by squadrons，


The first and second squadrons execute the morement as in Par． 9013．The third squadron inclines to dufentil it gains its dis－ tance，when it resumes the original direction and forms line to the right in rear of the center of the tirst line．

> Being in Column of Fours, to Form Front into Line.
> 905. 1. Right (or left) front into line, 2. Marct.

At the first command，the majors of the refr squadrons command： Culumn half right．

At the command march，the first squadron executes righf front into mise．

Each of the other majors so marches his fiuadron that when the head arrives opposite its point of rest，it shal be at least troop dis－ tauce and thirty yards in rear of the line，then changes direction half lef，and when thirty yards from the lineforms it right front into line．

In forming front into live，the majors of the second and third －rtadrons may march their squadrons diagonally toward their posi－ tions，by the heads of troops，e．g．：The majo s command：1．Troops． 2．Column half right（or half left）（Par． $8 \mathbf{8 7}$

Being in Column of Fours，to Form Front ints fine，Faced to the Rear．
300．1．Right（or left）front intoline，fac d to the rear，2．March．
The first squadron executes right front info line faced to the rear； the others are marched toward their points of rest and formed right tront into line faced to the rear on the left of the first．
－ 917 ．Front into line and front into line faced．to the rear may be executed on the rear of the column，by first fheeling abont by fours and then using the means already explained
919. The regiment in line of bathe, advancing considerable distances or over broken grqand, marches in line of squadrons or other sub-dirisions in columns of fours, or in line of platoon columns.

Collemn at Full Distance.
920. The regiment being in line, forms column of froops or pla. toons to the right or left, as prescribed in the School of the Squadron.
921. The regiment being in column at full distance, forms line to the right or left, marches to the reur, adjunces, and halts ps prescribed in the School of the Squadron.

To form line to the front, the first squadron forms font into line as prescribed in the School of the Squadron; each of the other squadrons is marched in column of fours opposite its $p \phi$ sition, and is then formed front into ling (Par. 905).

To form on right or left into line, the first squad on forms on fight (or left) into line as prescribed ip the School of the Squadron: the others successively execute the same movement, each sixteen fards beyond the one preceding.

Being in Column at Full Distande, to Change Direction.
922. Being in march: 1. Column'right (or left), o. March.

The first squadron changes direction to the right (Par. 736) ; the фthers move forward and each at the chmmand of its najor changes direction on the same ground as the fitst.

The principal guide marking the turning point of the first squad fon is relieved by a principal guide from the second, a d $d$ he in turn ly one from the third, each as soon as his squadron has passed him.

Being at a halt: 1. Foricard, 2. quide (right, left or center), 3. Column right (or left), 4. March.

Being in Column at Full Distance, to Face the Column to the Rear.
923. 1. Face to the rear 2. Fours right (or left) abouf, 3. March. The majors add: 4. Squadfon, 5. Half, as the fours unite in line.
Golumn of Mapsex.
924. In column of madses, the distance of each squadron from the one preceding is equal ta, the front of its first troop
925. In forming colunan of masses from line, the designated squadron ploys into close column; the others ploy in rear of the one qesigeated, the equadron nearest the point of rest taking precedence in the column. The rear qquadrons are dressed to the fame flank athe designated equadron.
926. Column of troops at full distance is closed in mass by the commands and means prespribed for the squadron (Pay. 753); each
squadron in rear of the first is closed in mase when at troop distance from the one preceding.
027. Being in column of masses, full dis ances are taken by the inmmands and means prescribed for the squadron (Par. 755); each "quadron in rear of the first takes full disance when its leading troop has troop front and thirteen yards from the preceding squadron.

> Being in Line, to Ploy into Column of Massex o\& the First Troop of the
First Squadron.
> 928. 1. Column of masses, 2. On first thoop, first squadron, 3. Mareh.

The first squadron ploys into close column on its first troop (Par. ijt) ; the other squadrons wheel by fours to the right, incline to the right, and each marches so that its leading trpop may enter the column at troop distance and fitteen yards in rear of the rear troop of the preceding squadron. The second squad on ploys faced to the leth in rear of the first (Par. 758), and the thrd ploys in rear of the second; the left guides cover.

The regiment is ployed on the fourth troop third squadron, on the same principles.

Being in Line, to Ploy into Column of Masses on an Interior Squadron.
929. 1. Column of masses, 2. On first troop, second squadron, 3. March.

The second squadron ploys on its first troop (Par. 750).
The major of the first squadron commands: 1. Fours left, 2. Troops, 3. Column left, 4. Marce, 5. Guide rifht, and when his leading fours are troup distance and twelve yards beyond the rear of the second squadron, commands: 1. Troops, 2. Cqlumn right, 3. March, and then ploys his squadron faced to the right in rear of the second; the troops are dressed to the left; in a similat manner, the major of the third ploys his squadron faced to the left in rear of the first.

The major of the first squadron may compand: 1. Fours left, 2. March, 3. Column left, 4. March, and when he head of the column has advanced troop distance beyond the rear of the second squadron, he commands: 1. Close column, fuced to the rear, ․ First troop, 3. Column right, 4. March.

Should the command of the colonel be:
Column of masses, 2. On fourth troop, second squadron, 3. Marce; the morement is executed on the same principles. The third squadron ploys in rear of the second, and the first in rear of the third.

Beingin Column of Fours, to Ploy into Column of Masses, Foced to the Front. 930. 1. Column of masses, ©. Fitst troop. first squedron. 3. Col. umn right (or left); or, 3. Column haly right (or half lft), 4. March.

The first squadron ploys faced to the front (Par. ian); the other successively execute the same movement. each in rear ff the one preceding.
Being in Column of Fours, to Ploy inlo Column of Mastes, Faed to the Rear.
931. 1. Column of mosses, faced to the rear. ㄹ. Airst trimp. firwt squadron, 3. Columin right (or left), \&. March.

The first squadron plofs faced to the rear (Par ist ; ; the uthers move forward and successively execute the same mbrement. each major giving his command so that his first troop man enter the column at a point troop distance beyond the point where the last troop of the preceding squadron entered it.

Being in Column of Foura, to Ploy intg Column of Masses, Faced to the Right or left.
932. 1. Column of masses, 2. First troop. first squmtron, 3. Fi,us: right (or left), 4. March.

The first squadron ploys faced to the right (Par. 75s) ; the otherincline to the left and sqeccessively execute the same movement. each major giving his cohmands so that his first tropp may enter the column at troop distance and fiffeen yards in rear of the rear troop of the preceding squadron.
933. Being in colump of troops or fours, column of masses iformed on the rearmost toop by first wheeling about by fours anil then closing in mass; when the colunn has closed. the regiment iagain whecled about by fours.
934. The column of masses adrances. halts, marchap by the Almit: resumes the march in colum, faces to the rear. marches of the rear and changes direction on the match, by the same commands as the columin when at full distance.

Being in Column of Dhasses, to Change Direction by the Flank:
935. 1. Change directign by the riqht (or left) Alank, 2. March.

The first squadron chsinges direction by the righ flank (Par. 761); each of the others wheels by fours to the right, a d is marche.l with the gaide to the left, by two partial changes of difection to the left, to its position in the dew column then wheeled by fours to the left and halted.
NEIV DRILL REGLLATIONS FOR C.AVALRT.
To deploy the colemn of Mases.

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Being in Colunn of Masses, to Deploy to the Right or Left.
036. 1. Deploy column. 2. Fours right (or peft). 3. March. The first squadron deploys to the right (Pqr. 764a); the second is marched in close column to its position on the line to the right of the first and then deployed in the same maqner as the first; the third, in a similar manner, is deployed on the fight of the second.

The second and third squadrons may be parched in column of tours. (Par. 759 ) to their places on the line.

To deploy faced to the rear, the colonel alds: faced to the rear. after deploy column. The first squadron deplys faced to the rear (Par. $\mathbf{7 6 4 c}$ ); the others form on the line face to the rear.
937. To form line on the rear of the cofumn. facing either to the front or to the rear. the colonel first faces the column to the rear, and then executes the movement as explained

Being in Column of Masses. to Deploy to the Right und Left.
938. 1. Deploy Column. ․ Fours right and left (or left and right), 3. March.

The first squadron deplors to the right; the second and third deploy on the line, the second to the left of the first. and the third to the left of the second.

## Being in Column of Masses, to Deploy in Two Lines.

939. 940. In teco lines. 2. Deploy columı, 3. Fhird (or such) squedron. second line. 4. Fours right (or left), j. Marm.

The first squadron deploys to the right ; the second forms line on the line of the first, and to its right ; the thind moves in column of fours and forms line in rear of the center of the tirst line.

If the colonel commands: 4. Fours right ald left, the first squadron deploys to the right: the second forms lne on the line of the first and to its left; the third deploys to the left.

If the colonel commands: 4. Fours left anc right. the first squadron deploys to the left; the second forms line on the line of the first and to its right; the third deploys to the fight.

Being in Column of Masses, to Deploy in Three Lines.
940. 1. Squadrons, 2. Deploy Column, 3. Fours right (or left), 4. March.

Being in Column of Masses, to March to the Righ or Left in Line of
Squadrons in Columns of Founs.
941. 1. Squadrons, 2. Columns of fours, 3. Such ) troop, 4. Fours right (or left), 5. Marce, 6. (Such) the base dquadron.
942. Being in line, or folumn of fours, the regimen ploys intw dolumn of squadrons by approximatipg the principles for formins dose column, School of the Squadron; except that the leqding sifuail. non halts upon forming life, and that the colonel when necerary specifies the distance (Par 898).
Being in Line oo Ploy into ¢olumn of Squadrons
943. 1. Column of squadrons, 2. $\phi$ nfirst (or third) squadron. : Fours right (or left), 4. $\$$ arch.
The first squadron stands fast. The second execute fours right. column right, marches squadron distance or the specified distance ${ }^{\prime \prime}$ the rear, changes direction to the leff and forms line o the left ill rear of and parallel to the first squad on. The third squadron ex.chtes fours right, column haff right, and forms in rear of the secoml as explained for the second; the left flanks cover.
Being in Line, to Ploy int Column of \$quadrons on Second Squairon.
944. 1. Column of squadrons, 2. On second squadrgn, 3. Fi,mis ldft and right, t. Marice.
The second squadron stands fast; the first squadion executus fqurs left and forms line to the right in rear of the second: the thind executes fours right and forms line to the left in rear of the first: the right flanks cover.

| Being in Column of Fours to Form Coqumn of Squadrons Faced to the |
| :---: | :--- |
| Right or Left. |

945. 946. Column of squadrons, 2. First squadron. 3. Four. ri,pt.t (or left), 4. March.
The first squadron forms line and halted; the others incline $: 1$ the left and each enters the column, forms line and halts at the pre scribed distance in rear of and parallel to the one prefeding: the rifght flanks corer.
Being in Column of Fours, to Form Colump of Squadrons Facel to the Reti.
1. 2. Column of squadrons, faced to the rear, 2. Fifst squili.... 3. Column right (or left), .. March.
The first squadron changes direction to the right aqd when its rear has cleared the flank of the coluon by ten yards. frms line i". the right and halts.
The squadrons in rear nove forward, and each, when ft has paw-ul
squadron front and serenteen yards, of the specified dista nce, bey.mil the one preceding, changesfdirection to the right, forms line and halts as prescribed for the first; the right fanks corer.

NEIV DRILL REGTCLITIONS FOR CATALRY.
Being in Columa of Squadrous, to Furm pront into Line.
947. 1. Right (or leit) froint into line. 2. March.

The first sumalron stands fast ; the second forms line on the right at the first and the third on the right of the second.

The colonel may direct that the third simiplron shall form on the !ett (or right) of the line.
948. To form line faced to the rear. the chlonel adds: Ficed to An, rear. to the first command. The first suadron is faced to the ratr: the others form on the line faced to the rear.

## Line of Mawses.

949. The interval between squadrons in fine of masses is fortydirht yards.

In line of masses, each major takes post t renty yards in front of the center of his first troop.

In all formations into line of masses, whe her by a simultaneous or successive movement, the adjutant or srgeant-major of each - paalron posts the guidon and principal guige of its leading troop.

Being in Line nf Masses, to Extend or 中ose Intervals.
951. To extend intervals: 1. On (such) squadron, 2. Tithe de$f^{\prime}$ lujing intervals, 3. March.

The designated siquadron stands fast : the fuadrons to the right are marched by the right flank, and those to the left. by the left mank, inclining slightly to the rear; each schedron when it has its interral, is halted in close column on the line intervals are closed in the same principles: 1. On (such) squadion, 2. Close intercals, $\therefore$ March.
Pi,ing in Line, to Form Line of Masses on the Ftst or Third Squadron.
951. 1. Line of masses on first troop, first stuadron, こ. March.

The first squadron ploys into close column pnits first troop (Par. iati); the second squadron moves by the rigl flank and ploss into "lnse column faced to the left so as to hare fortw-eight yards interval trom the left flank of the first; in the same nanner the third ploys on the left of the second.

Line of masses on the fourth troop, third squadron. is formed according to the same principles.
952. Line of masses mas be formed on the second squadron, the monel designating the first or fourth troop. The second squadron ploys on the designated troop; the others plot on the troop nearest the point of rest. Unless directed by the colopel, the squadron with the interval of sixteen yards does not correct t until the next movement; the other squadron closes to its proper i terval before ploying.

To Aliyn the Line of Mases.
958. If necessary to rectify the line, the olonel assures the guidon and principal guide of the first troop of one of the squadrons in the desired direction and then commands: Guides on the line.

The adjutant or sergeant-major of each of the other squadrons. posts the guidon and a principal guide of it leading troop on the line of those established by the colonel, the guidon on the side of the base squadron; the majors dress their squadr nas toward the point of rest.

The first troop of each squadron is dresseli on the guides; each of the other troops is successively dressed at flosed distance.

If the new line be established at a considefable distance from the - fuadrons. each major will move his squadron to its new position before dressing it.

## Mucements of Mrases.

59. The line of masses aduances. halts faces to the rear and mirches to the rear by the same commands and means as the regiment in line.
Being in Line or Masses, to Chellye Front.
60. 61. Chionge front on first (or third) squadron, 2. Marce.

The movement is executed on the principles explained for the -quadron changing front in line of platoon columns (Par. 783).
Being in Line of Mrossex, to March l, the Flank.

96i1. 1. Fours right (or left ), ‥ March, 3 . Guide (right or left). The squadrons preserve the distance of foty-nine yards.
The Lint of Masses Marching by the Flank, to Change Direction.
962. 1. Change direction to the right (or lfft), 2. March.

The first squadron changes direction to th right (Par. 675); the wthers move forward, and, at the command of their majors, change lirection on the same ground as the first.

If the regiment be marching at a gallop, the colonel reduces the sait to a trot before executing this movement

The Line of Masses Marching by the Flank, to Form Line of Masses to the Right or Lett.
963. 1. Fours right (or leit), 2. March, 3. (Such) the base "Iuadron, or 3. Squadrons, 4. Halt.

Being in Line of Masses, to Form Col, mn of Fours.
964. Being at a halt: 1. Column of fouls, 2. First troop, first (or third) squadron, 3. Right (or left) formed, 4. Fours right (ou lift), 5. March.

The first squadron forms column of fours to the fropt (Par. $\overline{\text { B }}$,
each of the others successifely executks the same morement and $i_{1}$. clines to the rignt or left so as to follow the squadron preceding at the prescribed distance.

The colonel may compuand: 1. Column of fours. 2. First (ar fourth) troop, first squadron. 3. Fours bight; or. ․ Firt (or fourth, troop, third squidron, 3. Fours left. 4. March.

The designated squadron forms column of fours to the right (Par. 759b); each of the others successively executes the same movement in time to follow the squadron preceding at the prescrilsed distance.

Being in Line of Masses, to Form Column of Masses. Fircel to the Right or Japt.
 3. March.

Each squadron changes, direction by the left flank (Par. $\mathbf{i} 61$ ).
Being in Column of Mfasses, to Form Line of Masses. to the Right or Lert.
966. The colonel causes the squadrons to change difection by the left or right flank (Par. i61); or compands: 1. Sfualtrons. .2. Col. umn right (or left), 3. Manch.
Being in Line of Masses, to Form Colump of Masses.Lircel to the Frout. 967. 1. Column of masses on first (for such) squadrdn. 2. Marcin. The first squadrou stands fast or is halted; the secpnd is placen in close column in rear of the first, and the third in rear of the second.

If the third squadron ye designated, the second tahes position in rear of the third, and the irst in rear of the second.

If the second squadron be designayed, the first takes position in rear of the second, and the third in rear of the first.

Each major may maneqrer his squadron into posit on in mass or in columpn of'fours.

The adjutant or sergeant-inajor of each squadron mores in all. vance to indicate the poinf where his squadron mores by the flank. or changes direction, to enter the column.
968. Being in line of nasses, to form the column of masses facing to the rear, the colonel first causes the squadrons to wheel about $l, y$ fours, and then gives the same commands as before.
Being in Column of Masses, tp. Form on Fight or Left into fine of Masse. 969. Being in march: 1. On right (or left) into lin of masses. … Marce.

The first squadron changes directon to the right and is halted when its rear has cleared the column by twelve yards; each of the
other squadrons marches beyoud the preceding to the right, is halted and established abreas interval of forty-eight yards.

Being in Column of Masses, to Form Front into Line of Masses.
971). 1. Right (or left) front into line of mases, 2. March.

The first squadron stands fast or is halted. The second and third "fualrons are mored in masses into their plafes. the second on the risht of the first, the third on the right of the second. The colonel maty direct that the third squadron shall form on the left (or right) ot the line.

> Being in Line to Change Frapt.
91. To change front, the colonel forms column of fours to the right or left and then executes front into line on the head of any "Iuadron, or front into line faced to the rear.

## Movements by Platoons.

972. The interval between squadrons in line of platoon columns is twenty-four yards.
973. All movements in column of platoons, and line of platoon columns, School of the Squadron, may be exequted by the regiment ly similar commands and means; the colone designates: (Such) sipuadron, when necessary.
974. In forming line, or line of platoon cofumns, each major first mores his squadron into position on the princples for forming line from column of fours, and at the proper time $g$ res the commands for forming line or line of platoon columns.

Being in Line of Platoon Columns, to Extend or Close Intervals.
975. Being in march: 1. On (such) trodp (such) squadron, 2. Ertend (or close) intervals, 3. March.

The designated squadron extends intervals rons to the right oblique to the right by the major giving the commands to extend interva has its interval from the squadron next on changes direction half left, moves up on the and dresses toward the designated squadron. l.ft of the designated squadron extend intersa to the left.
976. Intervals are extended and closed without gaining ground to the front by the commands and means prescribed for the squadron (Par. 782).

Being in Line of Platoon Columns, to March in Columh of Platoons. 977. 1. Column of Plqtoons, 2. Rirst (or fourth) troop, first (or third) squadron, 3. Forcald, 4. Guide (right or left), b. March; or. 5. Column right (or left), ן.. March.

The designated squadron executes the movement, and is followed by the others at the prope distance.

Being in Line, to Form Douple Column of Foprs.
978. 1. Double column of fours, 2. Мarch.

To the first command the major of the center squadron adds:
Center foncard; the major lof the first adds: Fours left; the major of the third adds: Fours right.

The second squadron ffrms double column of fours $s$ in Par. Tsic. The tirst squadron follows the right cqlumn, and the third squadron follows the left column, of the second squadron.

If the regiment consist of but two squadrons, the rapht squadron hreaks from the left and the left squadron breaks from the right to march to the front in colung of frurs (Par. 785).

If the regiment be in tino lines, each line forms douple column of fours.
979. Heing in line: 1$\}$ Squadrons. Double coturn of fours. 3. March, 4. (Such) the base squadron. Each squadron forms double column of fours.
orper in echalon.
Being in Line at a Halt, to Adcunce in Echelfn.
980. 1. Form echelon, at (so maņ) yards. 2. (Scch) the l.,.... squadron, 3. Mabce.

At the second commanh, the majot of the designated squadrin commands: 1. Forcard, Fuide center; the other majors caution: Stand fast.

At the command march, the designated squadron aprances; th.. others take up the march, each when it bas the specified distance from the one next preceding.

A principal guide from each rear squadron marches at the speri. fed distance directly in rear of the nearest flank of the precedin! \&quadron. Each rear squadron marches abreast of and preserves thephterval of sixteen yards frem its prindipal guide thus posted.
981. The regiment in echelon advances, halts, oblinuks, marrhes t., the rear or by the flank, by the same commands as when in line (ste. par. 678).
982. The regiment being in echelon of squadrons $m a$ be forme. 1 ipto echelon of troops or platoons as explained in the shool of thi.
squadron.

Being in Echelon of Squadrons, to Porm line.
083. 1. Form line on (such) squadron, 2. March.

The designated squadron halts or stands faft; the otherg form on the line of the one designated, by moving to the front or rat.

A general alignment is giren if necessary.

> Being in Echelon of troops. to Forn Line.
954. 1. Form line on (such) troop (such) 中uadron, 2. March.

## THE STANDARD

The manual of the standard is as prescribdd for the guidon (seefinot note Par. 466 ), except that at carry standar, dismounted, the butt of the lance is supported at the right hip.

## Standard Salute.

Being mounted: Lower the lance to the font by straightening the right arm to its full extent.

Dismounted: Slip the right hand up the lance as high as the eye, then lower the lance to the front by straighteping the right arm to its full extent.

The standard salutes in the ceremony eschrt of the standard and when saluting an officer entitled to the hono, as provided in Par. ti2 to 427 . A. R. 1889, but in no other cases.

If marching, the salute is executed when at six yards from the atticer entitled to the salute; the carry is resum ed when it has passed -is yards beyond bim.

At a halt, the salute is executed at the conmand present saber (or ("rms); the carry is resumed at the command carry saber (or arms).
The Giuurd of the Stundark.

The guard of the standard is composed of pur non-commissioned itficers, selected by the colonel.

The standard is carried by a sergeant why is No. 2 of the guard.
The standard is with the squadron designated by the colonel, usually the second, or the first if there be but two squadrons.

The standard, kept at the quarters or offide of the colonel, is escorted by the guard to the standard troop on ite parade ground; it is returned in the same manner.

The guard of the standard, at the command of the standard bearer, presents saber on receiving and parting wit the standard; in the latter case, the guard returns to the carry af the command of the senior member of the guard.

The front rank stands fast ; the other ran $\$$ move up and close to the proper distance.

A trumpeter when inspected executes with his trumpet what is prescribed for a band musician.

In rendering honors, whenever the standar salutes, the trump(ters sound the march, nourishes or to the standfrd, at a signal by the 4hief trumpeter.

The countermarch is signaled by rear poing and is executed by those in the leading rank or four, to the right of the chief trumpeter. turning individually to the right about. and those to the left of him turning individually to the left about, each followed by thone coverins pim in the column; the chief trumpeter passes through the center. Dismounted, the chief trumpeter faces to the rear and signals the forvard, march.

To incrense intervals, wave the saber several fimes to the right and let in front of the body.

To close intervals extend the arm vertically and rapidly circle the silber around the hand.

The intervals are increased before executiog the countermarch and closed after the countermarch.

## ceremonies.

## General Rules.

On occasions of ceremony, troops are arran fed from right to left in line, and from head to rear in column, in the following order: First, infantry; second, light artillery; third, cavalry. Artillery serving as infantry is posted as infantry; dismounted cavalry and marines are on the left of the infantry; engineer toops are on the right of the command to which they are attached. When cavalry and light artillery are posted together, the artillery is posted on the left. In the same line, regulars, volunteers and militia are posted in line from right to left, or in column from head to reaf. in the order named. On all other occasions, troops of all classes are posted at the discretion of the general or senior commander.

When forming for ceremonies, the troops of the squadron are posted according to the rank of the troop conmanders present, as prescribed in the school of the Squadron (Par. 543); the squadrons of the regiment, the regiments of the brigade, the brigades of the division and the divisions of the corps are posfed from right to left in line or trom the head to rear in column, in the order of rank of their respectire commanders present, the senipr on the right, or at the head. A troop whose captain commands the squadron retains
its place according to bis fank, unless otherwise diredted; the same rule applies to the higher units.

Non-commissioned offigers commapding troops or platoons have the name armament as the men of the r troops; they fo not execute thefexercises in the manua. In rendering honors, they execute the present and carry. Dismounted, they execute only the order and parade rest; in rendering honors, the present and carry; when marching, the right shoulder and carry.

Cavalry armed with carbine and pistol, or thescalbine only. in rendering honors mounted execute adeance carbine at the commanil present arms.
Geńeral Rules tot Reviers.

The adjutant or adjutapt-general posts men or otlerwise marks the points where the column changes direction, in such manner that the right flank in passing stall be about ten yards from the reviewing officer.

The post of the reviewing officer, sually opposite the center of the line, is marked by a flag.

The reviewing officer should be at the flag betore the head of the column reaches that point before that time be may take any posi. fion to observe the moremgnts of the troops.

The reviewing officer sahutes the standard whether entitled to a qalute from it or not.

The staff of the reviewing officer is in single rank, six yards in fear of him, in the following order from right to left: Chief of statf. adjutant general, aids, then the otber mombers of the stat in the ordes of rank, the senior on the right; his figg and orderlies place themelves three yards in rear of the staff, the flag on the ribpt.

Officers of the same or higher grade, and distinguishe personaiges invited to accompany the reviewing officer, place them elves on his Ift; their staffis and orderfies place themselves on the left of the sfafi and orderlies of the revewing officer; all others who accompany. the reviewing officer place themselves on the $L_{\rho f t}$ of his staff, their ofderlies in rear.

While riding around the troops, the reviewing office may dire.t h/s staff, flag and orderlies fo remain ak the post of the reriewiur offer; or, that only his personal staff a d flag shall acco npany him.

The staff officers, in passing around the troops, or in review, ril.. in one or more ranks, according to the qumber.

Commanders of brigades and divisions take their paces in the column in time to allow the commanders in front of them to take their places when at one hundred yards from the review ng officer.

The staffs, flags and orderlies of brigade, d rision and corps commanders place themselves in the order preschibed for the staff, flag and orderlies of the reviewing ofticer.

When the commander of a corps, division. brigade regiment or -quadron turns out of the column to place hifuself near the reviering officer, bis post is on the right of the companders already there: his staff will arrange themselves in single rank on the right of the staff already there; his flag and orderlies in par of his staff. Each commander. when his rear troop has passed. satuten the reriewing officer. and with his staff and orderlies rejoins is command.

Commatuders of brigades, divisions and co ps, and their staff offiers. draw saber when they take their places in column before passing in review; they return saber immediately an er placing themselves on the right of the reviewing officer.

The brigade commander. while the revierri $g$ officer is not in front or in rear of his brigade. may canse it to stanl at ease, rest. or to dismont and rest, and resume attention and monnt so as not to interfere with the ceremony.

The colonels repeat the commands of the brigade commander.
Whenerer the colonel faces the line to gir commands, the majors face at the same time; they resume their fron after seeing the movement executed. All such commands are exqeuted when they have heen repeated by the majors. When the con mand repeated is present saber (or arms) the colonel's staff salute at the command of the colonel; the colonel and majors salute after resuming their front. The same rules apply to the colonels and majprs and to the general's and colonel's staffs, when the brigade commander gives commands.

When the general or colonel faces the line to gire commands, the staff and orderlies do not change position.

In line, at the command, prepare for recied, march, the standard bearer takes post in front of his position, on the fine of troopofficers; in line of columns he takes post opposite the lef of the leading subdivision on the line of the troop officers of that subdivision; at the command posts, he resumes his place in the rank.

When the rank of the reciewing officer enfitles him to the bonor, cach standard salutes at the command present rms, given or repeated by the major of the battalion with which it is posted, and again in passing in review, when six yards from the feriewing officer; the standard is raised when it has passed six yards beyond the review. ing officer.

The band of each regiment plays while the reviewing officer is passing in front or in rear of the regiment.

Fach band, after pasaing the retiewing officer. thrns out of the column and takes post in front of the reviewing officer, continues $t$., play until its regiment has passed, then ceases play ng and followin rear of its regiment; the band of the nest follofing regimeni then commences.

While marching in refiew, but ode band in each brigade plays at a time, and but one band at a tinge within one hundred yards of the reviewing officer.

The trumpeters of each regiment are consolidated in rear of the band.

When the standard salutes, in forpations for reviem, the murch. or flourishes are sounded by all the trumpeters with the bands: in passing in review, by the frumpeters with the band that is halted in front of the reviewing officer.

The formation for revien may be modified to suit the ground, and the present in line and the ride around the line by the reviewing officer may be dispensed with; the troops simply matih in revicw with the guide either right or left, according as the post of the reriewing officer is on the right or left of the column; the officers:anil non-commissioned officers who hare designated placet on a flatk of the colume when the guide is right are on the opposite flank when the guide is left; in the later case, conmanders and their staffs turning out of the column take post as prescribed, but to the left of the reviewing officer.

Troops pass in review at a walk, trot or gallop. Fo salutes are made when passing at the trot or gallop.

In reviews of brigades, divisions and corps, each squadrons after itrear has passed the reviewng officer tify yards, takes an increaseal gait for one hundred yards, in order not to interfere wh the march of the column in rear.

The troops having passad the reviewing officer, refurn to their camps by the most practicalle route, being careful not to delay the parch of the troops in theil rear.

When it is necessary that an organization should be review...l before an inspector junior in rank to the commanding offcer, the companding officer will receiv the revien and will be accompanied ly. he inspector.
setadron review.
The squadron being in line, the staff, except the adjntant, in the grder of rank, the senior on the right, take post with one yard in. ferval, in line with the chiefs of platoons, four járds to the right of the rank; the non-commissioned staff and regimental fon-commis.
-ioned officers, except the sergeant-major, tak post in a similar manner on a line with and eight yards to the lef of the rank.

The reviewing officer takes his post.
The major in front of and facing the cen er commands: 1. Prepire for reciele, 2. March, 3. Front.

It the command march, the staff, chiets of platoons and standard hearer more up on the line of captains; the ghidons take post on the right of the rank of their respective troops; the sergeant-major takes jost on the right of the non-commissioned saff; the major's trumpeter joins the trumpeters; the line of officers, the rank and the line if file-closers dress to the right; the major 中ides at a trot or gallop (w) the right of the squadron and verities the alignment of the officers and rank; the adjutant verifies the alignment of the file-closers.

At the command front, the adjutant takes post on the right of the taff: the major takes post facing to the fron, twenty yards in front if the center of the squadron. The reviewing officer moves a few paces toward the major and halts. when the major turns about and commands: 1. Drac, ㄹ. Saber, 3. Present. 4. Saber.

The officers and men present sabers and the guidons salute; should the rank of the reviewing otficer entitle hin of the honor, the standand salutes and the trumpeters sound the mand or flourishes (Pars. +2? to 427 A. R. 1s89); the major turns abody and salates.

The reviewing officer returns the salute fitter which the major turns about and commands: 1. Carry, ․ Ssuser. turns again to the front, and returns saber.

The reviewing officer now starts for the right of the line; the major joins him, salutes and, placing himself on his right, accompanies him around the squadron. The revieqing officer proceeds to the right of the band, passes in front of the froop officers to the lett of the line and returns to the right, passing in rear of the file-closers.

The band plays while the reriewing, officer is going around the uuadron, ceasing when be leaves the right to return to his post. On leaving the right of the line, the major takes his place on the left of the reviewing officer, accompanies him a ten yards. salutes, moves directly to hiw post in front of and facing the fquadron, draws saber, and commands: 1. Attention, 2. Posts.

The chiefs of platoons and standard turn lfft about and take their pusts. The staff and non-commissioned staff tand fant. The major then commands: 1. Troops (or platoons) right, 2. March.

The staff place themselves on a line, with intervals of one yard, fitteen yards in front of the center of the lead ng subdirision, the adjutant on the right, the others in the order of rank from right to left.

The non-commissioned staff and regimental nop-commissionei officers place themselves on a line equal to the front of the rear sul. division twelve yards in rear of the rear subdivisiop. the sergeant. major on the right, the others in the order of rank from right to left

The band takes post thirty yards in front of the leading subil vision.

The column being formed, the major commands: 1. Pase in f . viev, 2. Foncard, 3. Guldeg right, 4. March.

At the command mary, the colump mores off, the band playing the column changes diretion; without command fron the major. at the marked points; the bajor takes post six yards in front of the staff immediately after the second change of direction; the hami baving passed the reviewing officer, turns to the left out of the col. umn, takes post in front of the revidwing officer and remains ther. until the review torminages.

The major and staff salute together when the major is at six yarlfrom the reviewing office and return to the carry together when the major has marched six yards beyond him; the other officers, the nowcommissioned staff officers, the regimental non-commikioned officers. non-commissioned officers in commad of subdirisions and the guidons salute and return to the carry \&t the points preperibed for the. major: in saluting, they furn the hedd and look toward the reviewing officer. Staff and non commissioned staff officers without saber: or swords salute with the right hand. If the reviefving officer be entitled to the honor, the standard salutes when at fix yards from him and is raised when at six yards beyond him; ap the standarl salutes, the trumpeters sofund the match or flourishes the band continuing to play.

Non-commissioned st dff officers, regimental noncommisvione.l officers and non-commiss) oned officets in command of subdivision. salute as prescribed in the School of the Soldier (Par. 186)

The reviewing officer returns only the salute of the major and standard; be salutes the ctandard whether entitled to a salute from it or nof.

The major, having saldted, takes post on the right of the review. ing officer, remains there thl the rear of the squadron has passed. an! then salutes and rejoins the squadron. His staff place themselves in rear of the major, on the fight of the staff of the rer erring officer: they accompany the majo when he rejoins the squadton.

The band ceases to play when the column has completed its first change of direction after passing the reriewing office

When the squadron arrives near its original position in column. the major commands: 1. Trut (or getlop). If March.

The squadron passes in review as before. ©xcept that there is no s:luting. the band playing.

The review terminates when the rear troop has pased the revier. int officer: the band then ceases to play. and. un less otherwisc lirected be the major. returas to the position it oceuped before marching in review, or is dismised: the major and his staf rejoin the squadron.

The squadron then executes such morements as the reviewing atherer may have directed or is marehed to its parade ground and dis. miseet.

The march in review at the trot (or gallop may in the discretion of the reviewing officer. he omitted: the review then terminates as thefore. Or. the reviewing otticer may require the squadron to march in review a third time at the gallop: the revifw then terminates as lintione.

## Remimentai. review.

The regriment is formed in line, in line of platoon columns, or in line of masses.

> In Lire.

The colonel takes post facing to the front: the adjutant, during review, is on the right of the staff: the rerimental non-commissioned siff. regimental non-commissioned officers and orlerlies are three yarls in rear of the staff. the chief trampeter on the right, the ser-pant-major on his left. Non-commissioned staff sfficers other than resimental are eight yards from the left of the left squalron

When the reciewing officer approaches his post. the colonel faces the regiment and commands: 1. Prepere for peiem, ․ March.

Executed in each squadron as prescribed for the squadron review; the lieutenant-colonel takes post twenty yard in front of the right flalik. The majors having taken their posts. the colonel faces to the trout.

The reriewing officer, accompanied by his taff, then approaches the (o) onel and balts at thirty rards in front of him.

The colonel then faces the regiment and edmmands: 1. Drar. 2. Saber, 3. Present, 4. Saber.

The colonel and majors face to the front apd salute. The staff salute and return to the carry at the command of the colonel.

The reviewing officer having returned the salute, the colonel faces the regiment and commands: 1. Carry. 2. Safer, and faces to the front.

The colonel and hil staff, non commissioned sfaff, etc., then return spber; the colone joins the eeviewing officer placing himselt on his right; the colonel's staff place themselves or the right of the staff of the reriewing dficer, unlese the reviewing officer adrances alone, in which case the colonel alone joins and acompanies him. the staffs remaining at their posts.

The reviewing officer then goes to the right of the line, parses in rear of the line of majgrs to the left, and returns in rear of the tileclosers to the right, whence he proceeds to his post

The band plays whife the reviefving officer is paking around the regiment.

When the reviewing officer leares the right of the line, after passing around the regment, the colonel returns by the shortest line to his post facing the regiment, and draws saber; the colonel'm staff take post at the same time in rear of the colonel and draw saber.

The colonel then co中mands: 1. Aitention, 2. Posts, 3. Troops (or platoons) right, t. Harch.

The non-commissioned staff of each squadron ake post as prescribed in the squadron review; the column havilg been formed. each major takes post twenty yards in front of the center of his leal. ing subdivision, his adjetant six yards in rear of ham the lieuten-ant-colonel is in line with the major of the leading squadron. six yards to the right of the column; the band is thirt yards in front of the leading subdirisipn; the non-commissioned staff, other than regimental, twelve yard in rear of the rear subdicisipu, the sergeant. major of the rear squadron on their right.

The colonel then commands: 1. Pass in reviev; 2. Foricaril. 3 Guide right, 4. March.

The column passes in review according to the prinkiples prescrilud in the squadron review. When the head of the celumn has make its second change of direction, the colonel places himself twenty-four yards in front of the band, his stafi six yards in fear of him. the non-commissioned staff, etc., the sergeant-major on the right, three yards in rear of the stat.

The colonel having saluted, places himself on the right of the reviewing officer.

The majors do not thrn out of the column after passing the reviewing officer.

The colonel rejoins and concludes the review as pescribed for the squadron, after which the squadrons unless otherw se directed, are marched to their parade grounds and dismissed.

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In Line of Platoon Colunens
With the following moditications, the rups for the review of the repiment in line apply.

When the colonel commands: 1. Prepafefor revierc, ?. March, each guidon takes post on the right of the fist platoon of his troop; each captain six yards in front of his guition; the chief of each tirst platoon and the squadron staff officers move up on the line of atptains, the squadron adjutant on the righ of the squadron staff; chiefs of rear platoons remain in place: the shuadron sergeant-major and the non-commissioned staff officers other than regimental, in line with the leading platoons.

When the reviewing officer has passed a found the regiment the colonel commands: 1. Pass in reviere, 2 . Column of plotoons, 3. First troop, first squadron, 4. Foruard, 0. Gंuide right, 6. Column right, 7. March. (See Par. 977.)

In Line of Masses.
The same rules apply as for the review df the regiment in line, except that when the colonel commands: 1. Prepare for reviex, 2 . March, each captain takes post two yards in frpnt of his guidon; chiefs of platoons remain in place; the staff in line Fith the captains of the leading troops; non-commissioned staff, other than regimental, in line with the leading troops.

When the reviewing officer has passed ardund the regiment, the colonel commands: 1. Squadrons, 2. Change firection by the left flank, 3. Narch.

The column having been formed, the olonel commands: 1. Piss in reviev, 2. Tike full distance, 3. Guide right, 4. March.

Each major takes post twenty yards in front of the center of his lealing troop when his troops have full distapce.

To march in review in column of platoons, be colonel commands : 1. Pass in recien, 2. Column of platonns, 3. Fpricard, 4. Guide right, j. March.

The major of the first squadron commanls: 1. First troop, 2 . Right by plutoon, 3. March, 4. Guide right.

The first troop executes the morement, bllowed by the others executing the same movement when at the proper distance; the other guadrons execute the same morement, each when at the proper dintance.
brigade review.
The brigade is formed in line of masses or in line of platoon columus, with an interval of sixty-four yards between regiments.
 causes his trumpeter to spund attention. Which is replated in taria regiment; each colonel then causes his regiment to draw saber.

The reviewing officer baving haltel at thirty yards from the bris. ade commander, the brigade commander and his staff ditiw saber: thi. brigade commander then ques the brigade and causes fiis trumpret.r to sound attention, and commands: f. Present. ©. S\& ber, facon l.. the front and salutes the reviewing officer.

The reviewing officer baving returned the salut the britall. commander facer the brigade, commands: 1. Carry. A. Saber. anil faces to the front ; he and hif staff return saber and join he reviawin:officer.

The reviewing officer accompanied by his staff. and the brigith. commander and his staff, then proceeds to the right of the brigarl. passing in front of the colonel of the first regiment, to the right if the line, thence around the brigade passing to the left in rear of thi. majors, and to the right i 1 rear of the file-closers of the rear -ul. divisions.

The colonels remain al their posts facing to the font white the. reviewing officer is passing around the brigade. Whan the review. ing officer leares the right of the line the brigade compander catio.attention to be sounded: the colonels then command: Attentus. 2. Posts, and cause their spuadrons to execute change firectiom l!! th, left flank; the colonel of the leading regiment then gives the 1 י". paratory commands for phassing in review in colum of troop ir platoons as prescribed in Regimental Review.

The brigade commander then canses the signal forigard, marr $h$, t. be sounded, which is repented in the leading regimend

The column moves off as in Regimental Reriew.
The colonels of the center and reat regiments give he comman.小 for passing in review, each in time to follow the regin ent preculine at sixty-four yards and subifirision distance.

Each colonel takes post twenty-four yards in front of his hathl when the head of his regimen has made its second change of directin!.

The brigade commander.takes post thirty yards in front of the colonel of the leading regiment, when at one bundred yards tir.m the reviewing officer.

The brigade commander and coldnels, when they

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bin out of the column and take post with the reviewing officer.
The review terminates when the rear sifa lron has passed the rericwing officer.

Dirision Reriere.
The division is formed in one two or the lines of masses, or lines of platoon columns with an interval of phe hundred yards beween brigales.

Each regiment is pepared for review as prescribed in Brigade Roview.
[pon the arrival of the reviewing otticer. he general commandine the division joins and accompanies him. and catuses the signal , tr, "tion to be somated, which is taken up in the right brigate of the tiot line.

It Olle Lime.
The reviewing otficer receives the salute of each brigade when be arrives at its right. except when he appoacles a brigade from its heth or front, in which case he receives the sahte as preserityd in the bitigale Review.

The reviewing ofticer receives the salute of the right brigade, fances along it front from right to left. then receives the salute of the next brigade, and so on to the tell of the drision, thence in rear ot the division to the right. and back to his post.

Each brigate commander salutes. facinge the thent. then faces hiv hrigade and brings it to carry saber. and itmans at his post.

The reviewing ofticer having pasoed aroung the division, the division commander causes the signal attention to bounded.

The commander of the right brigate then forms lis brigade in column. and. when the signal formord. marrh. is sounded, gives the rommands for passing in review as in the Briande Review.

Eatch of the other brigates is called to attention, formed in colmonn and put in mareh in time to follow the not preceding at a distallee of about one humelred yards.

The division commander with his statf. that and orde ties takes $1^{\text {nint thirty gards in front of the commander of the leadiug brigade }}$ when at one hundred yarts from the reviewing officer.

The review is conducted as prescribed in the Brigade Review.
In Tico or Three Lines.
The reviewing officer passes a round each lin in succession, begin- : nines with the right brigade of the first line.

With this exception, the rules prescribed for the single line apply.

The band takes post on the parude sothat the left of its front mank shall be sixteen yards to the right of the guard when the latter is tormed.

At adjutant's call, the adjutant proceeds to the parade ground and takes post so as to be twelve yards in front of and facing the center of the guard when formed; the sergeant-majof reports to the adjutant and takes post facing to the left. the cropp of his horse twelre yards from the left of the band. on a line with itsfront rank; the details are marcbed to the parade ground by the firat gergeants, the first sergatuts with their sabers drawn. the details at return saber; the detail that arrives first is so marched to the line that upfon halting, the manon the right shall be on a line with the sergeant-najor and one yard in front of the sergeant-majors horse; the first fergeant having halted his detail, places himself in front of and facing the sergeant.major at a diatance a little greater than the front of hi-. detail; he then commands: 1. Right, ‥ Dress: the rank dresses up to the line of the sergeant-major and first sergeant; the non-commissioned officers rein luck so as to be six yards in rear of the rank; the first sergeant commands: Front, salutes with the saber and then reports: The detail i. correct; or, (so many) sergeants, corporals or privates are absent: the sergeant-major or acting sergeant-major, then returns the salute with the right hand; the first aergeant then passes by the right of the guard and rear of the sergeant-major, and takes post six yards in rear of the non-commissioned officers of the guard.

The other details, as they arrive, are formed in like manner on the left of the first; the rank, non-commissioned officers, and first sergeant of each detail dress on the rank. non commissioned officers and first sergeant of the detail next preceding

The troop dotails alternate in taking the rght of the line.
When the last detail bas formed, the sergednt-major draws saber, verifies the details, causes the guard to count fours, and if there be more than three fours, dirides the guard into fwo platoons; he then commands: 1. Right, 2. Mress, verifies the lignment of the rank, the line of non-commissioned officers, and the first sergeants, and then returns to the right of the rank, turns to the 1 ft, commands: Front, passes to a point midway between the adjut ant and center of the guard, halts facing the adjutant, salutes, and peports: Sir, the details are correct; or, Sir, (so many) sergeants, corpurals or privates are albsent; the adjntant returns the salute, direct the sergeant-major: Take your post, and then draws saber; the sprgeant-major turns to the left and takes post facing to the front, thee jards to the left of the rank.

When the sergeant-major has reported. the ottice of the guarl takes post, facing to the font, six yads in front of th guard and draws saber.

The adjutant then directs: Inspeyt your guired, sir at which th.. commander of the guard harns about. commands: 1. Inspection. $\because$. Arms, and inspects the guard.

During the inspection the band plays.
The adjutant, during the inspection. observes the 事eneral conli. tion of the gaard, and, when so diredted, selects an ofderly for th. commanding officer; he phay reguire a trooper to more out of th.. rank, and to dismount for a more minhte inspection; ler also notiti... the two senior non-comnfissioned otficers to serve al chiefs of plattoons. If any trooper dops not present a creditable appearance. hiv captain is notified throug the tirst sergeant and sempa trooper t. the officer of the guard, at the guard house, to replace him.

If there be a supernumerary officer of the guaril, pe takes pon. facing to the front, six yerls in fron of the center of the first $j^{1 / 1}$ toon; he may be directed by the conmander of the duard to assi-t in inspecting the guard; the adjutat notities the ior non-collmissioned officer to serve as chief of the serond plator $n$.

If there be no officer of the grard, the adjutant inspocts the guard. and during inspection, notifies the sepior non-commi fioned othicu to command the guard. the next two sethior non-commis ioned otticerto serve as chiefs of platodis.

The inspection ended, the adjutalt places himself about thirty Gards in front of and facibg the center of the guard; the officers in the day take post in front bt and facing the guard, abou thirty yarls from the adjutant; the old ofticer of the day three yargs to the righ! of and two yards less adranced than the new otficer of the day: th. otficer commanding the guard takes post facing to the front, six yarin in front of the center of the guard, and thereafter takes the salli. relative positions as the ceptain of a roop.

The adjutant then conmands: 1. Drac. 2. Saber, ; Socvib uff.
The band, playing, passes in fron of the otficer of the suard 1. the left of the line and back to its post on the right. when it cean-. playing.

The adjutant then commands: 1. Attention, 2. Posts, at whicin the chiefs of platoons take their post two yarts in front of the cell. ter of their platoons facing to the front, and the communder of the guard, if not already there, takes post six yards in front of the celli... of the guard facing to the front; the file-closers close op two yario from the rank.

The commander of the guard and chiefs of platoons having taken their posts the adjutant commands: 1. Present, D. Saber, faces toward the officer of the day, salutes and then feports: Sir, the guord is formed.

The new ofticer of the day, after the adjutant has reported, salutes with the hand and directs the adjutant: Mared the ghard in revien, sir.

The adjutant turns ahout, brings the guar to a carry and commands: 1. Plutoous right, e. March.

The platoons execute the morement as explained in the school of the Troop; the band takes post in front of the column. The adjutant places himself abreast of the first platoon and six yards from its Left flank; the sergeant-major abreast of the fecond platoon and six ranils from its left flank.

The adjutant then commands: 1. Pass in fetior. : Furrard. 3. (iuill right. 4. Marcu.

The guard marches at the walk past the officer of the dary, acearding to the principles of review, the adjuthut, the commander of the guard. chiefs of phatoons, sergeant-major and chicf trumpeter saluting. The new ofticer of the day returns the salute of the commander of the guard with the hand.

The band, having passed the officers of the day, turns to the lett -nt of the column, places itself opposite and facing them and ceases th phay when the rear of the column has paspel: the trampeters detach themselves from the band when the latedr turns out of the colwhn and remain in front of the guari, compencing to play when the band ceases. In the absence of the band the trumpeters do not turn out of the column, but continue to play in front of the guard.

The guard having passed the otticer of the fay, the adjutant halts, the sergeant-major halts abreast of the adjutat and one yard to his lett; they then return saber and retire. The commander of the guard firms it into column of fours, without haltind and marches it to its l"sis. The otficers of the day turn toward eagh other and salute, the wh officer of the day turning orer the orlds to the new ofticer of the day.

While the band is sounding off, and whil the guard is passing in review, the officers of the day and first sergeants remain at attention; the first sergeants return saber and fetire at the same time as the adjutant and sergeant-major.

When the guard is not divided into platogns, the adjutant commands: 1. Guard right, 2. March, and it pases in review as before; the commander of the guard is two yards in tont of its center; the
\&djutant is six yards from and abreast of its left flank; fhe sergeant. hajor covers the adjutant, abreast of the file-closers.

The officer of the day pay direct the adjutant: Mapch the guar.l to its post, sir. The adjutant then faces the guard, and commands
 3. Fours right, 4. March, or causes the guard to march at the trot.

The trumpeters take post in front, and the guard marches off in column of fours; the adjutant, sergeant major and tirst fergeants re. turn saber and retire; the officers of the day salute eaf h other athl the band retires.

As the new guard approaches the guard house, the pld gnami iformed in line at the carrs, its trumpeters two yards oo its right: When the trumpeters at the head of the new guard arpire opposit. its left, the commander of the old guard commands: 1 Present. $\because$. \$Aber, and when the new gaard has paised, commands: 1. Carry. $\because$ Saber.

The new guard marches at the walk past the old guard. saberw at the carry, commanders of both guards saluting.

The trumpeters and guard continue marching, with ut changine direction, until the rear of the column has passed eight fards beyond the trumpeters of the old guard, when the commande of the new gaard commands: 1. Fourl right, 2. March, 3. Guide right.

The trumpeters and guatd are marched three yards in rear of the line of the old guard, when the commander of the nert guard com. mands: 1. Fours right about, 2. Marce, 3. Guard, 4. Halt, 5. Left. 6. Dress, 7. Front.

He then, facing to the front, aligns bis guard so as to be on a line with the old guard.

The new guard having been dressed, the commander of earll gard, in front of its center, facing to the front, commands: 1. Pre sent, 2. Saber, and salutes.

The officers having saluted face their guards and Emmand: 1 Carry. 2. Saber, 3. Return, 4. Saber.

Should the guard be commanded by a non-commiss oned officer. he takes post as prescribed for the officer of the guard and presentsaber with his guard.

The reliefs call off from right to left and are marched in column of fours or twos; the sentidels are posted successively flom the hear of the column; the sentinels relieved form successively in rear of the coluinn.

The detachments and sentinels of the old guard are elieved, and. as they come in, they form on its left; both guards drat saber: the

NEW DRILL REGCLATIONS FO\& CATALRY.
commander of the old guard then marches if with the guide right, twelve yards to the front, when he commands: 1. Fours right, 2 . March.

The guard wheels by fours to the right. the trumpeters begin to play. and the guard marches at the walk past the new guard, which tands at present saber. commanders of both ruards saluting.

On arriving on the regimental. post or capp parade ground, the commander of the old guard forms it in line and balts it. draws cartridge, orders successively the troop details six gards to the front, and cends each, under charge of a non-commission odticer or private, to its troop.

When sentinels and detachments are at \& considerable distance nom the headquarters of the guard. the old apd new guards are dismounted while awaiting the return of the rellefs.

In bad weather, at night. or after long marches, the music may he dispensed with. or the trumpeters maty tak: the place of the band atud sound off, standing on the right of the shard.and the review be omitted.

## Dismounted.

(The present signal assembly of guard details is the first call for ruard mounting, dismounted.)

Guard mounting dismounted is conducted in single rank on the same principles as guard mounting mounted. \&ith the following modifications:

At the assmbly, the men warned for dut fall in on their troop parade grounds, non-commissioned officers anh supernumeraries falling in as file-closers; each first sergeant then verifies his detail. in--pects the dress and general appearance and eplaces by a supernumerary any man unfit to march on guard.

The sergeant-major takes post, facing to the left, sixteen yards from the left of the band; the band plays in fuick or double time; the details are marched to the parade ground, with arms at the right shoulder; the detail that arrives first is so marched that, upon halting, the breast of the man on the right shall be inear to and opposite the left arm of the sergeant-major; the first eergeant, having balted his detail, commands: 1. Open ranks, 2. Mazch.

The rank dresses up to the line of the s rgeant-major and first sergeant, the man on the right placing his breast against the left arm of the sergeant-major; the non-commissioned officers step back and halt three yards in rear of the rank; the aupernumerary steps back and halts three yards in rear of the non-compaissioned officers.

Seeing the rank opened, the first sergeant commands: frost. salutes, reports, passes by the right, takes post three frards in rear of his sapernumerary and brders arms.

When the sergeant-majpe has reported, the officer of the grame takes post three yards in tont of the center ot the gutal and dran-: saber.

The adjutant then colomands: 1. Oficer (or aficers) and now. commissioned officers. 2. Front und center. 3. March.

The officer adrances afle halts three gards trom the adjutant the non-commissioned ofticens carry armes, pass by the fifnks and form in the order of rank from right to left. three yards for rear of the officer; the adjutant then assigns the otticer and non- fommissiontel officers according to rank in the following order:

Commander of the guard, chief of dirst platoon, chief of scond platoon. right guidr of first platoon, leit guide of st cond platoon. left guide nit first platoon, right guide of secon plutoon, and file-closer.s.

The adjutant then conmands: 1. Non-commissionitonticetw: or 1. Officer und non-commissidned oficeers, 2. Posts. 3. М.

At the command march, all except the otticer companding the guard. face about and take post as follows:

Chief of first platoon, three yards in firont of the centco of the timt platoon; chief of second platopn, three yatds in front of the center of th. second platoon; right guidefirst plitoon, on the right of the rank of first platoon; left guide secind platoon. on the left of the raink of the second platoon; left guide first platom, in the line of tle-closeres in dear of the second man frop the left of the first platoon: right $g^{\prime \prime}$ in. second platoon, in the line of tile-closers in rear of the pecond mat foom the right of second $p$ atoon; file closers, three yards in rear of the rank, to the right of the left guide frat platoon. and o the left of the right guide of the secon platoon; each orders arms when he takehis post. A non-commissioned otticer commanding the guard takes post on the right of the right guide fifst platoon, A fon-commin. sioned officer designated as chief of platoon, takes post if the line ot file-closers opposite the cenfer of his platoon.

The adjutant then direcos: Inspect your guard, sir.
During the inspection the adjutant replaces by the supernumerary any man who does not presont a creditable appearance.

The inspection ended, the officer commanding the fuard takipost three yards in front of the center of the guard.

The adjutant then commands: 1. Papade, 2. Rest. 3. After the band sounds off, the adjutant commands:

Socind Off 1. Guard.

The file-closers close to two vards from the fank; the officer commading the guard faces about and takes polt facing to the front, two yards in front of the center of the zuard: if there be a supernumerary officer of the suard. he takes post in the line of file-closers "pposite the center of his phatoon.

In presenting the guard to the officers of the day. the adjutant commands: 1. Present, … Arms.

When forming column of platoons to maryh in review. each chief of platoon after verifying the alignment of is platoon. takes post two yards in tront of its center, facing to the front: the left guide of the first platoon and the right guide of the second platoon place themselves on the left and right flanks of their respective platoons. A non-commissioned otticer commanding the guard takes the post of an otficer commanding the guard, when in column or passing in review.

The adjutant brings the guard to a right houlder.
The guard marches in review at quick tipe and is brought to a narry by the commander of the guard when forty yards from the officer of the day.

While the band is sounding off, and while the guard is marching in review. the officers of the day stand at filded, and come to attention before the guar arain as the head of the column approaches.

The first sergeants and supernumeraries is being presented and formed into column.

The senior first sergeant commands: 1. Parade. e. Rest. at the command march, for passing in review, and: 1. Supernumeraries. g. $^{\text {g }}$ Atrenton, when the officers of the day come to attention.

The first sergeants come to parade rest. and to attention with the -upernumecaries. When the adjutant halts after the guard has passed in reriew, each first sergeant marches his supernumerary to the troop parade ground and dismisses him.

When the guard is directed to march to its post, it may be marched itl double time.

The new guard marches in quick time past the old guard, arms at a carry; the trumpeters having marched three fards beyond the trumpeters of the old guard, change direction to he right and, followed by the guard. change direction to the left $w$ en on a line with the old guard; the changes of direction are made without command. The commander of the guard halts on the lin of the rank of the old suard, allows his guard to march past him, and, when its rear approaches, forms it into line to the left, halts it, establishes the left
gaide three yards to the right of the trumpeters of the did guard and on a line with its rank and then dresses his guard to the left.

The new guard being dressed, the commander of fach guard in front of and facing the center commands: 1. Present, of Arms, faces tó the front and salutes.

The commanders havi申g saluted, each faces bis gurd and commands: 1. Carry, 2. Aress, 3. Order, 4. Arms.

Should a guard be commanded by a non-conmissioned officer, he presents arms with the guafd, standing on the right or lef of the rank. according as he commands the old or new guard.

The old guard is advapced six yards and then ingrehed by the Hank, in quick time, past the new guard.

Before dismissing the troop details, the commander of the oll guard causes the guard to open chamber.

For detailed instructions for guards and sentinels, se Manual of Guard Duty.
sqyadron parfade.
At to horse the troops are formed mounted on thdir respective parade grounds and are inspected by their captains; the inspection being completed, adjutant $\alpha$ call is sounded, at which the squadron is formed on the squadron parade ground (Par. 7118).

The band takes post ona line with the rauk of the squadron, the left of its front rank sixteen yards from the flank of the quadron; tie trumpeters form with the pand.

The sergeant-major, hafring posted the last guide in his wing. takes post four yards on the left of the rank facing to the front.

The adjutant, having posted the last guide in his wipg, takes poist facing to the left two jards to the right of the rank pn the line of captains.

The staff, except the adjutant, takes post four yards to the right of and in line with the chiefs of platopns, in the order of rank from rigbt to left, the senior on the rigbt. The non-comnissioned staff and regimental non-comminsioned offigers take post in \& similar mallner two yards to the left of the sergeant-major.

The major takes post at a convenient distance in front of the center of the squadron, fading the line.

As soon as the adjutant sees that the last troop has formed on th." line, he directs the first daptain to cause his troop to draic salnit. The captains, commencing on the right, successively thrn about and command: 1. (Such) troopi, 2. Drax, 3. Saber, and resume their front.

The adjutant takes post tour yards to the right of the staff, and commands: Socve off.

The band, playing a march, passes in front of the captains, to the left of the line, and back to its post on the right, when it ceases playing. At evening parade, when the band ceases playing, retreat is sounded by the trumpeters.

When the music ceases, the adjutant mofes up on the line of raptains, turns to the left and commands: 1. Squadron, 2. Attention. 3. Prepare for parade, 4. Мaker.

At the command march, the commissioned officers commanding platoons ride forward and halt on the line of captains; the guidon of each troop, if not already there, takes poft on the right of his 'troop, passing in rear of the rank; non-comnissioned officers commanding platoons take post on the line of the rank one yard to the right of the guidon, or one yard to the left of he troop, according as their platoons are on the right or left of the center of the troop; a non-commissioned officer commanding a troop rakes post on the line of the rank to the right of the chiefs of platoons on the right of the troop; the staff officers move up and halt on the line of captains; all dress to the right.

The adjutant verifies the alignment of the officers, the rank and the file-closers. The officers and file-closers cast their oyes to the front, as soon as their alignment is rerified.

The adjutant having verified the alignmen returns to the line of (aptains, turns to tho left, halts, commands: at the trot or gallop by the shortest line to a the major and the center of the squadron, facts the squadron, balts and commands: 1. Present, 2. Saber. He hen turns left about, salutes the major, and reports: Sir, the parad is formed.

The major returns the salute and directs the adjutant: Take your post, sir. The adjutant moves at a trot or gallop, and, passing by the major's right, takes post, facing the squad on, three yards to the left of the major and one yard less advanced.

The adjutant haring taken his post, the major draws saber, commands: 1. Curry, 2. SABER, and adds such ekercises in the manual of arms (saber, carbine and pistol,) or saber xercise as be may desire. concluding with the squadron at return seber.

The officers do not return saber.
He then directs the adjutant to receive th reports, and returns aiber. The adjutant, passing by the major's \&ft, adrances at a trot or gallop toward the center of the line, balts nidway between it and

The commanding officer may direct that the first sergeants march their troops in line, or column of platoons, arourd the parade ground, as in passing in review; after passing the major they march them to their troop parade grounds and dismiss them. Or, the commanding ofticer may direct that the troops move off in \&ehelon and march to their parade grounds. In these cases, the officefs, unless excused, remain with the major until the troops have paspd.

Previous to executing the saber exercise, the major may cause the troopers to take distances to the front (Par. 41 3 ).

The troop officers, staff and non-commissionfd staff officers, regimental non-commissioned officers, bund and non-commissioned officers commanding troops or platoons adrance and preserve their positions rulative to the rank of Nos. $1:$ the guidons stand fast until Nos. 4 have their distances, then move up and halt in line fith them. The filechosers preserve their relative distances in refr of Nos. 4 . At the conclusion of the parade, each first sergeant capses his troop to form ramk, and dismisses it as prescribed.

The squadron may be formed in line of plafoon columns.
The parade is conducted as when in line with the following modifications:

At the command prepare for paride, march. thecaptains and guidous it not already there, take post on the right of tleir respective troops (Par. 611) each guidon passing by the rear of pis first platoon; the licutenants take post on the line of captains, the first lieutenant in front of the center of the first platoon, the second lieutenant in front of the left of the first platoon, the additional se -ond lieutenant midway between the first and second lieutenants. A non-commissioned officer commanding the first platoon takes post one yard to the right of the guidon; a non-commissioned officer comnfanding a troop taken $j^{\text {nst }}$ on the right of the chief of the first platoon; a non-commissioned officer commanding a rear platoon remains in font of his platoon.

## hegimental parade.

The regiment is formed in line, or in line of platoon columns. At to horse, the troops are formed and inspetted.
It adjutant's call, each squadron is formed ip line; the squadron aljutant, having taken his post in front of the eenter before reporting the squadron to the major, receires the repprts of the first sergeants as prescribed in the squadron parade.

When the squadrons are formed, adjutant's cpll is again sounded; the regiment is then formed in line or line of platoon columns; each major, as soon as his squadron has formed on the line, commands:

1. Prepare for parade, 2. March, verifies the alignment regulating on the base squadron, compands: Fant, and moving at a trot or gallop takes post twenty yards in front of and facing the center of the squadron; be then conmands: 1. Draur, 2. Sapler, and faces to the front.

The lieutenant-colonel takes post wenty yards in front of the right flank.

The post of the adjutan is six yards to the right of the post int the lieutenant-colonel.

The sergeant-major takos post six yards to the right and abrea-t of the rank.

The other non-commissioned staff officers, etc., tafe post as in Par. 880.

The adjutant, after indicating the point of rest and direction of the line, takes his post and faces to the left; when the finst squadron has formed, he turns to his left, commands: Socnd Off, and takes hipost facing to the front.

The band, playing, passes in front of the adjutant and field witi cers to the left of the regiment and bach to its post on the riglft, when it ceases playing.

The adjutant then mores by the shortest line, at a rot or gallop. to a point midway between the colonet and center of the regiment. faces the regiment and comquands: 1. Squadrons, 2. ftention.: Present, 4. Saber, faces the colonel, galutes and reperts parade is formed.

The colonel returns th salute and directs the adjatant: Till, your post, sir. The adjutank takes post three yards to the left of $\mathrm{l}_{1}$. colonel and one yard less atranced, passing by his right and rear.

The colonel and staff oficers draw saber; the colonel then com. mands: 1. Carry, 2. Saber, and addy such exercises on the mamal of arms or saber exercise as he may depire, concluding with the rusiment at return saber.

The colonel then direct the adjutant to receive th reports. and returns saber; the staff, excppt the adjutant, return sabar at the satue time.

The adjutant advances y $y$ the left of the colonel to $q$ ard the litic. halts midway between the colonel and center of the degiment, alll commands: 1. Adjutants, 2. Front apd center, 3. Trpt (or gallip!. 4. March.

At the command march, the squadron adjutants, padsing in front of the troop officers, close the center and balt, facing to the front. midway between the line of field and trop officers. Thepdjutant then
(ammands: Report; the squadron adjutants, con mencing on the right successively satmte aud report: (Such) squadr n present or accountel firt: or, (Such) squadron (so many) orficers and eqlisted men are absent. The adjutant then commands: 1. Adjutunts, 2. P1st, 3. Trot (or gallop), t. March.

The squadron adjutants, moving by the shotest lines, then take $p^{\text {wist }}$ in the line of field officers. each three yafds to the left of the major of his squadron. The adjutant then faces the colonel, salutes and reports: Sir. all are present or accounted fot; or, Sir, (so many) "ricers and enlisted men are absent. The colonel deturns the salute and directs: Publish the orders, sir. The adjutan faces the regiment, rommands: Attention to orders. publishes the ofders, and then commands: 1. Officers. 2. Center, 3. March.

It the command oficers, all the otticers return saber.
It the command murih, the troop officers t rin and close toward the center, and successively turn to the front and halt eleven yards from the line: the two ofticers nearest the center preserve an inter. ral for the adjutant. Who passes through. four sadre to the rear, turns atout and halts: the lieutenant-colonel, the schadron commanders and their adjutants turn individually left about move to the rear and form on the line of officers; the lieutenant-colopel and the commanwer of the inst squadron, with his aljutant on bis left, on the right of the line: the commanders of the second and phird squadrons, each with his adjutant on his left. are on the left of the line; all the officers having formed, the adjutant rides up to his plate.

The lieutenant-colonel or senior squadron commander then ermmame: 1. Forwarl, 2. (iumide center. 3. Maran.

The officers advance, the band playing: the adjutant is the guide and marches on the colonel; at six rards from the colonel, the lieu-tenant-colonel commands: 1. Officers. - ILA4t.

The ceremony then concludes as prescribed in the squadron parade.
The lieutenant-colonel and aljutant join the folonel; all the other otticers rejoin their squadrons; the squadrons are marched to their parade grounds and dismissed.

## troop inspection.

Being in line at a balt, the captain commank: 1. Prepare for inspection, 2. March, 3. Front.

The chiefs of platoons take post four yards an front of their posts in line, i. e., six yards in front of their platoons; the guidon on the right of the rank; the right principal gaide on fard to the right of the guidon; the trumpeters two yards to the rifht of the right prin-
cipal guide, on a line with the rank; the other file-cldsers one yard to the left of the rank; the left principal guide on their left. . 111 dress to the right.

The captain verifies the alignment of the chiefs of platons and the line, commands: Front, and takes post in front of he guidon in line with the chiefs of platpons.

The chiets of platoons qust their eyes to the front as soon as their alignment is verified.

The captain commands: 1. Inspection. 2. Arms.
The troop is inspected as in Par. 4111 .
The trumpeters raise their trumpts for inspection when the inspector approacbes to inspect carbines.

When the captain disqounts the troop, the guidpo dismount, with it; the chiefs of platoons return saber, dismoun and stam "" horse facing their platoons; the captaln dismounts an h his horse in held by his trumpeter. If the arms are not to be insperted. the commands therefor are omitted.

The chiefs of platoons, when the inspection of the rank begiti-. face toward the troop and pemain at ense. resuming the $r$ front on the completion of the inspection of arms, or the captain may require ons or both lieutenants to accompany or to assist him; if dismountel. their horses are held by trompeters. The captain mat requive canh chief to inspect his own platoon, himself making a gene fal inspuedin.

While inspecting the troop or accompanying the nispector. the captain does not return hif saber while mounted; if "ismounten ha returns saber.

To resume the posts in. fine, the captain commands: 1. Att, i, ti,, . 2. Posts.

The chiefs of platoons kurn to the left about, move forwaril. :13, 1 by another left about resu he their places; the right pincipal gruile turns to the rigbt about and resumes his post; the tumpeter r... sume their places; the filefelosers on the left of the ran successivily. turn to the left about and pesume their places in rear of the rank.

Should the inspector be other than the captain, the captain jur pares the troop for inspection and awaits the orders of the inciection. Upon the approach of the inspector, the captain at his post in tromt of the guidon salutes him; the inspector returns the palute and informs him of the kind of inppection; the captain gives the necemary commands, faces to the front and, when inspected, acconppanies the inspector.

At inspection of quartew, the men, withont accoutrements, stand ancovered in front of theif respective bunks; in camp, they stamd
(wsered, without accoutrements, in front of heir tents; the senior non-commissioned officer, upon the approach of the inspector, commands: 1. Troop, (or squad, 2. Attention.

The men come to attention and do not salate; in camp the noncommiswioned officer salutes.

## TROOP INSPECTION DISMOCNTED.

The troop is formed for inspection as whe mounted.
Arms are inspected as prescribed in the Sdhool of the Soldier.
At the command inspection arms. the lieutepants carry saber, and when the inspection of the rank begins. face about and stand at ease, alier at the order: upon the completion of the inspection of arms and ammunition, they come to attention, carry saber. face to the front and order saber.

## SQUADRON INSPECTION.

If there be both inspection and review, the inspection may either precede or tollow the review.

The squadron being in column of tronps at fill distance, the major commands: 1. Prepare for inspection. ‥ Manch.

Each troop forms for inspection as prescribed in Tronp Inspection.
The trumpeters return to their troops.
The band, if there be one, passing by the ripht flank of the squadmom, takes post facing to the front, sixteen yafls in rear of the rear -troop. and opens ranks.

The guard of the standard is marched by the adjutant, and takes post twelve yards in front of the center of the first troop:

The staff officers form on a line equal to the front of the first troop, fifteen yards in front of the standard, the adjutant on the right, the others in the order of rank from right to left, the senior next the aljutant.

The non-commissioned staff and regimental non-commissioned otticers form in a similar manner, six yards ip rear of the staff, the -rgeant-major on the right.

The major takes post in front of the center of the column, six yards in front of the staff.

Field and staff officers senior in rank to the inspector do not take post in front of the column, but accompans lim.

After being inspected, the major and staff o $⿻$ ¢icers return saber, and the inspector, accompanied by these officers, passes down the column looking at the frout and rear of each rank.

The major now commands: Rest.

The inspector, commeneing at the head of the cofumn makev: minute inspection of the non-commissioned staff and regimental noncommissioned officers, the guard of the standard, and the arms. arcoutremente, dress, ammuntion, horse and equipments of each trooper of the several troops in succession, and inspects the bs nd.

The adjutant gives the necessary commands for the inspection of the non-commissioned staff and regimeptal non-commis ioned officer. the guard of the standard and the badd.

The non-commissioned staff, regimental non-commicsioned officerand guard of the standard may be diamissed as soon ak inspected.

As the inspector approaches each froop in succession. it. captain commands: 1. Troop, 2. Attention, 3. Inspection, A. Arms. :alld takes his post in front of the guidon; pas soon us inspecked, he accompanies the inspector.

The inspection being fotished, the qaptain, on intimation from the inspector, marches the tropp to its pafade ground and dismises it.

The band plays during the inspection of the troopl.
In a long column, som of the rearmost troops, affer the in-per. tion of dress and general appearance. may be permittel to dismomit and rest ; before the inspeftor approaqhes, each is calld to attention and mounted.

The inspection of dress and general apparance mat be dispen… with; on intimation of the inspector, the squadron is prought to $\ldots$. as soon as the major and sfaft have been inspected.

After the inspection off dress and eneral apparance, if the inspector desires to inspect the squadron dismounted, the major (:at1... the troopers to take distanges to the fiont (Par. 41 ij) and dismount. them; or, dismounts the squadron without forming raph.

At inspection of quarters, the inspector is accompanied by all the officers, or by such of bem as he pay designate.
hegiplental inspection.
The regiment being in column at full distance. the colonel cont-
Each squadron forms for inspection as prescribed in Syturnall Inspection.

The band takes post in rear of the regiment.
The gaard of the standard is marched by the adjuant and takies post six yards in front of the major of the first squad fon.

The staff officers of the colonel form on a line equal to the front of the column, fifteen yards in front of the standard, the adjutant
on the right, the others in the order of rank from right to left, the senior next the adjutant ; the non-commissiondd staff and regimental non-commissioned officers form in a similar monner six yards in rear of the staff officers, the sergeant-major on the right; the colonel takes pist six yards in tront of the center of the cofumn; the lieutenantcolonel takes post three yards to the left of the colonel.

The colonel, lieutenant-colonel, and staff dficers of the colonel, as soon as inspected, return saber and accompany the inspector, who then inspects the dress and general appearanke of the regiment.

The adjutant brings the non-commissione staff and regimental nou-commissioned officers to a rest as soon at the inspector begins his infpection of the first squadron.

Each major accompanies the inspector while inspecting his squadron and then brifgs his squadron to a rest.

The inspector after passing to the rear of the regiment, commences again at the head of the column, maks a minute inspection of the regiment as prescribed in Squadron Inppection. Each major with his staff officers accompanies the inspector through his squadron, after which the major marches his squadrgn to its parade ground alld dismisses it.

REGIMENTAL OR SQLADRON MUSTER.
Muster is preceded $\mathbf{b}$ an inspection. and fhen practicable by a review.

The adjutant is provided with the muster roll of the field, staff. and band; the surgeon with the hospital roll. and each captain with the roll of his troop. A list of absentees al habetically arranged, showing cause and place of absence, accompaies each roll.

Being in column of troops at prepare for inspection. each captain. as the mustering officer approaches, causes ipe sabers to be drawn and commands: Attention to muster.

The mustering officer, or captain then calld the names on the roll; catch man, as his name is called, answers here, and returns saber.

Dismounted, each captain, as the muster ng officer approacbes, commands: 1. Right shoulder, 2. Arms, 3. Attention to muster. Each math, as bis name is called, answers: Here, and brings his carbine to order arms.

Men who are not formed with the troop, and who attend muster without arms, are two yards on the left of the rank; each, as soon as he answers: Here, passes two yards in front ff the rank from left to
right, salutes the mustering officer as he passes him, and quits the parade ground.

After muster, the muster ng officer, accompanied by the troqp commanders and such other offigers as he may designate, veripies the presence of men reported in hoppital, on gqard, etc.

A troop may be mustered in the sa申e manner on its own paradu ground, the muster to follo the troop inspection.
escord of the suandard.
The regiment being in line, at carry saber, the coldnel details: troop, other than the standard troop, to receive and escoft the standard to its place in line.

The escort is formed in column of platoons, the band in front. the standard bearer between be platoons. The escort then marchewithout music to the colonql's quarters, is formed in line facing the entrance and halted, the band on the right, the standafd bearer in the line of file-closers.

The first lieutenant, standard bearer and the right pripcipal guide. dismount in front of the colonel's quarters, their horses being held by a trumpeter; the standard bearer. preceded by the first lieutenant and followed by a sergean of the escort, then goes to receive the standard.

When the standard beater comes out, followed by the lieutenant and sergeant, they halt before the entrance and mount, the lieutenant on the right, the sergeant on the left; the trumpeter returns to hipost; the captain then compands: 1. Present, 2. Saber; the escort presents saber, the trumpeters sounding to the standard.

The sabers are brought to the carry the lieutenant and sergeant neturn to their posts; the thoop executes platoons right; the standarl bearer places himself between the platoons.

The escort marches with the guide left, back to the fegiment, th. band playing; the march is so conducted that when the secort arrive-at-fifty yards in front of the right of the regiment, the direction of the march shall be parallel to its front; when the standard arriveopposite its place in line, the escort is formed in line to the left and halted; the standard beared, passing between the platoons, advallu.... and halts twelve paces in fyont of the colonel.

The standard bearer having halted, the colonel, whp has posted himself thirty paces in front of the center of his regiment, faces the line, commands: 3. Present, 4. Saber, faces to the front and salute:
the trumpeters sound to the standard, and the standard bearer returns the standard salute.

The colonel then faces about, brings the regiment to a carry and the standard bearer, passing through the inferval to the left of his troop, turns to the left about and takes his pace in the guard of the standard. The escort presents and carries neber with the regiment at the command of the colonel, after which the captain forms it in colamn and marches it to its place in line, passing around the left thank of the regiment.

The standard is escorted by the guard of the standard from the parade ground of the standard troop to the colonel's quarters.

## ERRATA.

Page 309, General Rules; first line should read : except Funcral Eecort," etc.

Page 313, second line ; for "eight yards" read six yards."


The subject of throwing borses for disciplinary putposes and fir the performance of surgical operations is one of great mportance tw troop commanders. For soveral years I have used thi means of leducing refractory, obstinate and vicious horses to the proper degree. of obedience, thas convincing them of their utter inability to contend. with any chance of success, against thelr natural mastels. Withothiview of the importance of this matter it was with condiderable dimay that I read in the last Jotrnal (March, 1890, pp. 63-5.) the plan of throwing contemplated by the Tactical Boar and recom. mended by Captain George A. Dodd, Third Cavalry. few of the numerous objections to this method:

1. The length of time required to cast the animal. I will cite : it require, under this old "4Rarey System," from ten to twenty min. utes to get the horse on his side. In fact, without pushing hin ower. it cannot be accomplished ontil he is exhausted.
2. The danger to the operator. There are horses in my troul which I do not think any unan would dare to stand beside as contemplated in this method.
3. The danger of injury to the horse himself. The certainty of his bruising or breaking hif knees, unless they have be $n$ previously padded, and the probability of his breaking his neck or knocking wit his teeth.
4. The difficulty of keeping the horse down after he is thrown. etc., etc. Several years ago I ran across, somewhere in 中y researchefor authorities on the horse, a small pamphlet by John orace, a California trainer, I believe, who adrocated the following method of "casting." which I shall trapscribe in dearly his orn mords:
"The easiest and most effectual method of throwing a horse is t" strap up the near fore foot, put on a surcingle with a fing fastennd to the top of it, tie a half inch rope around his neck halterwise. placol - 申p near the throat latch with the knot on the near side of the filce. Pass the rope into the mouth and bring it along bis nefk on the " $\mathrm{tf}^{\mathrm{f}}$ side, then pass it through the ring in the top of surcingle on the back.

PROFESSIONAL NOTES.
standing off on the near side about six or elyht feet from the horse and opposite the near bind leg, keeping the pope sufficiently tight to prevent him from disengaging it from lis mopth. Pull carefully until he yields his head a little to the off-side, then give a sharp, strong, continuous pull until the horse falls, which fill occupy from one to fire seconds. As he goes down, lying on the pear side, keep the rope tightened and he cannot get up. * * * , He can be thrown on "ither side by this process with perfect safety."

For tying up of the fore leg I use a strat similar to the one de--ribed in the Jocranal as No. II. Of coursp it will be understood that if the animal is to be thrown on bis righ, side, the process is reversed, the off fore leg being tied up. Instead of webbing in the sureingle, I use canvas, doubled, three and ore-halt inches wide, and very atrong; the ring must be rery securely fastened to the canras surcingle. This method is safe for horse any operator, is absolutely -ure and the casting can be accomplished by any man, no matter what the strength of the horse. The only objection to it is the "burning" of the animal's mouth by the friction of the rope. My troop fiarrier (HCNT) suggented a very simple me hod of obviating even this objectionable feature. It is merely to dtach to the regulation balter an adjustable strapone inch wide, with a sliding loop and buckle, this strap to pass under the animal's chin apd to be fastened to the two lower rings in the cheek strap; in other words to be adjusted in "pposition to the nose band. When drawn taut it will prevent the halter from slipping up. The casting rope peed not then be passed through the horses mouth nor tied around lis neck; instead, secure the end of the rope in the lower ring in cheek piece of the halter, or. better still, in an additional ring attached by a strap, one inch wide and six inches long to the balter ring. This strap when doubled will bring the additional ring about two a od one-half inches from the horse's lower jaw, and when the rope is tyhtened at right angles tit. This will give sufticient purchase for the operator to govern the animal's head.

This morning I selected the wildest and strongest horse in the troop, (six years old, weighing 1250 pounds and after adjusting the surringle and rope one man threw him, the fifst time in eight seconds allid the second time in three.

After the animal has been thrown a fer thmes he can be made to lie down by the rider raising the left fore let, and at the same time pulling the bead gently to the right with the reins.

On horses with very low withers a crupper should be attached to the surcingle.

I submit this plan for what it is worth, no wise claiming for myself the credit for its origin, and would be hlad to have it discussed biy some of our practical borsemen.

Very respectfully, First Leutenant, Fourth Caralry.
their time for six months devoted to theo etical and practical instruction, would enable the adjutant to mak smart and efficient soldiers of them. They should not be put on ppst guard except during the last month, and then only for instruction. Ther might, howwer, be put on stable guard and fatigue duridg the last three months, thus taking care of their own stable and horses.

One objection which will probably occur to troop commanders is that it would keep their troops reduced in n mbers. This would be the case to a certain extent; troops would ofly average fifty-four or fitty-five men; but this objection is believed to be more than counterbalanced by having all the men of the fi $y$-four or fifty-five well instructed soldiers individually, at least.

This system would also increase the labors of the regimental adjutant a great deal, but it would give him a power and influence in his regiment and encourage him to be a real soldier and not a mere head clerk. Besides, if the post adjutant's duties were taken off his hands. it is believed he would have ample tipe to attend to his regimental ones.

WM. H. ©MITH,
Fired Lieutenant Tenth Curalry.

TIIE SHOEING OR NON-SHOEING OF CAVALRY HORSES.
I have been much interested in the discession carried on in the June number of the Jotranal relative to the shoeing or non-shoeing of cavalry horses.

Some fifteen years ago the same questio excited attention, but the outbreak of the great Sioux-Cheyenne wr. following the occupation of the Black Hills buried it out of sigh

With your permission I will repeat the vipws formed at that time, to which I still adhere.

There has been much experience gained upon this point, both by ourselves and by the Indan tridemplo ed as our allies or pursued as our enemies. Picket line experimats are not to be relied upon any more than we should trust the chanist is crucible to determine the market value of a mine.

No argument can be based upon the fact that the horse in a wild or half-wild state has no shoes; he has no weight to carry or to haul, can pick his own path instead of following blindly in column, and when tired, can rest and roll--comforts which the caralry animal, hitted, saddled and heavily burdened canno hope to enjoy.

Where the soil of a territory is homogeneous, say, for example, sandy, like the greater part of Arabia, the ralley of the Gila, and the Mongolian habitat near the desert of Gqbi, or, a mixture of sand and clay like the section of the Missouri Valley forming the eastern portions of South Dakota, Nebraska and Kansas, or alluvial, like the low countries, the horse or mule, whet er as a pack or saddle animal, in garrison or in campaign might bo trusted unshod, but no

A SHORT TALK ON HOOFS AND HORSE-SHOEING.
Erery cavalry officer knows, or should kyow, that the good condition of the hoofs is deserving of the great ot attention.

This is especially true of horses for cavary, for undoubtedly the most efficient services are performed by th branch of the serrice when mounted, and a mount with sore or difeased hoofs will always prove to be a very poor mount.

To insure a good condition of hoofs, one of the prime features is proper and practical shoeing, that is, if horses are to be abod at all. To decide whether or not horses are to be shod, let us look at the wigin of horse-shnes.

In the earliest stares of horse-shoeing, hoes consisted of iron plates curved upward at the elges, conform $n g$ in shape to sandals, the human foot-gear of those days. Those shoes were tied, later wapped to the pastern and the shank.

When nails were first introduced, the iron plates had been changed to the form of the hoof, covering it entirelf, and had a hole in the center.

These shoes were undoubtedly the outce me of the necessity to have something to resist the wear and tear bt hoofs after the introduction of artificial roads covered with stonfand gravel.

Thus it is seen that shoes were introduce 1 for use on hard roads. and it seems therefore that horses in cities, precially, should not be without shoes.

A famona German caralry officer, Count Rosenbert, continually whected to the shoeing of cavalry horses apd persisted in calling -hos $\cdot$ a necessary evil while horses are in cities, but an unnecessary cril while in the field.

It is evident that interference with the works of nature generally is more or less of an evil, and the penetration of the hoofs with nails and their coercion by the shoes is certainly uch interference.

As the C. S. Cavalry principally does dut in regions where hard - roals are rather the exception, it would seem that in that case horse-- loneing is an "unnecessary evil."

But as the customs provide for the shoein of horses, we will now (onsider a serviceable and rational system of shoeing.

The hind feet need no shoes at all, for op soft ground a healthy hoof is ample for any work required of a saithle-horse. If any shoeing is to be done, let it be confined to the fron feet, for these are moreatily worn off.

The English custom of having the shoeing done at the stables in the regular stalls, and not at a shop, seems a good one. This does away with all unnecessary excitement, to which every horse, when placed in or tied to a strange stall, is more of less subject.

At any rate the shoeing of all horses shonald be superintended by an experienced officer, who should require each horse after being shod to be led past him, both at a walk and a frot. If he notices the
slightest imperfection in the motion of the feet, he slould order the shoes to bo removed and fefitted.

Imperfect nails should never be used and nails impoperly placel should be removed at once.

While it is injurious to keep shoes on too long, on the other hand too frequent changing is also detrimental. Twenty two days has proved to be a good average for keeping shoes on the feet.

Before each drill all stbes should be closely inspected, for a horw may fall on account of a loose shoe, and if a shoe slould come uft While the horse is in motipn, it would almost always carry a piece of the hoof with it.

When preparing the hoof great care should be exefcised. Every dead substance should be removed, but no live parts shold be toucheil. Great attention must be paid to the proper and careful remosal if effete portions of the frog, and that the hoofs should naver be left tow, long.

With the hoofs great gare and special cleanliness are exsential: but next to frequent cleaning of hoofs, something should be done toward strengthening them. Frequant rubbing of the hoof inside and outside with pure lard keeps it pliable and in goopl condition.
A. L. IS.

BATTERY "B," FOCRTH U. S. ARTLLLERY,
N CAMI.
Battery "B," Fourth of. S. Artillers, Major Harry manding, are in camp in this city in the fields near the on South Angell street. The battery is out on practic duty by special orders from the War Department march anll at 11 o'dock Thurday left Fint Adams at 11 oclock Thursday morniqg and marched on that way a-
far as Stone Bridge, campihg there that night. Friday at f:311 A. the march was resumed, apd evening found the comply in camp it Rumstick Neck. At 5:4 A. M. Saturday the march fas again resumed, and the camping ground on South Angell strect was reathell at 9:30 o'clock. The battery as it is now in canp numbers four geniand forty-eight officers and men all told.

Arrived in camp, tents were pitched immediately, the grulparked, horses picketed, chmmissary quarters establish d and within the hour the battery was receiving its frst cleaning since its departure from Fort Adams. The nen bad abo groomed thei horses. and were looking after their personal appearance. The cook was jurparing dinnor for 12 o'clock, and appearances indicat d dong estahlished camping quarters. At 2 oclock the battery according to order. marched to the Dexter Training Ground for the purpose of drill. which also included that of firing off forty rounds. Tlje battery hits only 100 rounds of ammunition, for the caissons had to be used fill baggage, as only one small army wagon could be proeured for thimarch. The battery will strike camp on Monday morning and march to Scituate, thence to Sonth Manchester and New Londpn, Connecti\&at, and crossing the ferry, proceed through South County towns to
the fort, arriving there about July 10th. The march is primarily to test the endurance of the horses to march fithout shoes, report of which will be made to the War Department. The horses have been on ishort marches around Newport, and have been picketed on pared ground at the fort, and their boofs are hard as flint. There are as yet no signs of lameness in any of the horses. It is said that the artillery and caralry horses at Fort Riley, Kansas, have not been shod for more than a year, and with but very 4 ttle resulting lameness.

The drill by the battery at 3 oclock on the Training Field was a splendid sight, and extremely interesting. It was in accordance with the provisional new tactics, issued, but not adopted as yet, by the (iovernment.-Proridence Sunday Journal, June 29, 1890.

Editor Journal C. S. Cavalry Association, Fort Leaven porth, Kansas.
My Dear Sir: - The review, in your March number, of the work "Regimental Losses in the Civil War," was read with interest; and although you take exceptions to some points, the article was read with pleasure also, for intelligent criticism is welcome at all times.

- In justice to myself, however, I would say that I anticipated your idea of consulting regimental histories as wel as official records, and examined carefully the roster in every reginental history that has been published. The individual records as given in these histories were of great assistance in determining the losses; especially. in disributing a loss to the actions in which it oc-urred, the muster-outrolls too often recorditg a man as killed, without giving the date or place of death.

My figures for the loss of the Sixteenth German Infantry (Third Westphalian) at Mars-la-Tour were taken from the official publications of the German Gorernment, compiled by Dr. Enaec, the Director of the Royal Statistical Burean. As stat d there, the loss was:

|  | Killed. | Wout ded. | Miseing. | Total. |
| :---: | :---: | :---: | :---: | :---: |
| Oftricers ....................... | $\underline{23}$ | 13 |  | ${ }^{41}$ |
| Enlisted men | $\begin{array}{r}\text { 52 } \\ +3 \\ \hline\end{array}$ | 548 | 14 $3+2$ | 1322 |
| Tota | 209 | 811 | $33 \%$ | 1484 |

In this statement the mortally wounded are included with the killed. You will notice, also, that this loss includes 356 who were captured or missing.

In the German army, Franco-Prussian War, there were eight regiments only whose casualties exceeded 1000 in any one action; or, about thirty-fice per cent. They were as follows:
Sixteenth Infantry, Mars-la-Tour.
............................ 1484* Twenty-fourth Infiantry, Vionville Forty +ixth Infantry, Worth. 1016
Fifty-second Infantry, Mars-la-Tour.................................................................................... 1248 Firkt Grenadier-Guard, St. Privat-la-Montaigne...... ............................. 1059 Firat Foot Guards, St. Privat-la-Montaigne...... fecond Foot Guards, St. Privat-la-Montaigne Third Foot Guards, St. Privat-la-Montaigne.

[^3] first engagement, into whech it carrigd its full comple nent of 3,0110 men, or not far from that number. A German regiment of infantry numbered, when full, $\mathbf{3 , 0 0} \mathbf{5}$ officers and men, not incleding non-com. batants.

Mention should also be made of the Garde-Schuten Battalion ( 1,000 strong, not including non-combatants) which sustained til casualities at St. Marie-aux chènes. This battalion, during the entire war, lost 119 killed, and sixty-one mortally wounded; total, $180 . \mathrm{or}^{-}$ eighteen per cent.

But the Second Wisconsin lost 19.1 per cent. in kiled ; and, that too, as based on an enrpllment which included noh-combatants. Someone will probably sat in reply: "But the Franco Prussian war was a short one, and hende smaller percentages of los." Well, the Fitty-seventh Massachusetts lost 19.1 per cent. in killed, and yet thin regiment was not organized or recrulited until A pril, 1864, the lant year of the war. The First Maine Heary Artillery sustained all it. terrible losses-19.2 per cent. killed - within the last eleren mouth, of the war.

In the German army there were only three regimedts whose low in killed and mortally wounded exceded twelve perceent. of their enrollment. Nor would af prolongation of the war netegarily have resulted in any larger percentage; for it would have ndedssitated the filling up of these regiments, and the increased enrdifnent would then have decreased their percentage of loss.

Another thing regarding the conparative length of these two wars. The Enion armies during the four months following May i. 1864, sustained a loss greater than that of the German army durins the whole Franco-Prussiad war. No were these Union losses fruitless and unproductive of adequate results. They br ught us victory; they gave us Atlanta, and the final position at letersburs. Yours rery respectfully,

WILLAAM F. FON.
THE NEW GAS GUN.
At the headquarters of the London Scottish Rifles yenterday atternoon some interesting experiments vere conducted fith M. I'sis. Gipfard's appliance for the employnent of liquefied gas as an ex-plosive-or, to be more strictly accurate, one should sif as a mean, of propelling projectiles-in place of gunpowder. M. P UEG Gipfard: scientific reputation as infentor of the pneumatic tube, and of the "Giffard injector," so largely used in connection with steam power. stands so bigh that any ipvention to which his name was attachewl would be worthy of attenfive consideration.

The weapon now introduced by him, however, is something more than an ingenious appliande; it is a discovery which not only promises to revolutionize the gunmaker's art, but it is applicable also to many other purposes as a motiv power. Those who are int rested in the

PROFESSIONAL NOTES.
Giffard gun claim that it is the military weapon of the future. The idea of using liquefied carbonic acid gas as a propulsive power is not new, but Mr. Giffard is the first who has thrned it to practical account.

The gas gun is a model of simplicity, so far as one can judge without examination of the discharging mechanism, in which much of the merit of M. Gifford's invention lies. A small cylinder, called a cartouche, is attached to the barrel of a rifle or a smooth-bore gun. This cylinder contains liquefied gas enough to disecharge 220 shots, "qual to about fifty bullets of an ordinary seryice rifle, with a velocity ti) kill at 600 yards. There is no other explofive. The pellet is simI's dropped into an aperture of the barre) Which is hermetically -caled by pressing a lever, and the loading is complete. When the trigger is pressed a small quantity of liquefi d gas becomes released and expands in the breech chamber. There s no louder report than the drawing of a champagne cork makes; no smoke and no fouling of the barrel. In all these respects M. Gifyard's gas gun seems to fulfill the requirements of an ideal weapon for warfare; but whether in other respects liquefied gas has adranlage dver ordinary explosives for military purposes remains to be proved. The inventor says there wduld be no difficulty in refilling the cylinders with gas on the battlefield; but it is obrious, even if that be the case, that reserve cylinders would have to be supplied to each man, in order to make up the number of rounds now thought to be necessant ; and. as bullets would of necessity be carried in addition, the ampunition for a gas gun wduld weigh just as much as ordinary cartrifges, weight for weight. -London Drily News.


As the left battalion came up, the loug folumn of caralry filed through the gate of the track and formed co umn of companies. It was the first time in all my risits to State equmpments that I had segn more than two companies. and much as I had heard of the exrellence of this command, I was not preparedfor such an appearance. The material is the very pick and flower of the young men of the sonthern portion of the State. A large number owned their own borses, and those who did not had the use pf horses from friends. Fivery horse was a genuine saddle horse bifted and broken. The men were such horsemen as could only be found in a community where every fairly well-to-do boy rides almoft as soon as he walks.

The Georgia Hussars, Colonel Gordon's old troop, rode with a rery bandsome seat, much like the English mi itary, but which looked better because there was not the stadied effort to drop the heel, which gives the straddling or tongs across-a-wall effict. The Liberty troop had a true cavalry seat which was not as han fisome to a soldier's eye, but they are holy terrors in keeping the saddl. There were in their ranks a lot of Texas ponies, and some of thep knew how to buck in
of him, and will try to keep his secret if h should by any accident be caught taking even a "suggestion of aim." See page 223: Journal of the U. S. Cavaley Association for June.

We will be candid and state right here that no snap shot will be considered, who draws, and raises his pistol apward and fires, without first coming to "raise pistol." We make this stipulation for reasons that seem to be good. First, we afe prejudiced in favor of this particular world, and are not altogether sure of any gentloman's chances for a better, who of his own free whl, follows the profession of "snap shooting" at his fellow man; though he may never seriously damage anybody the intent is there, and w th some of us, not only intent to kill, but a sincere suspicion that re may succeed, even if we look away, and try not to see what we a doing.

Our next reason for objecting to the "snap shot" who will not raise his pistol, is owing to the difficulty of traning horses to curl their heads underneath their bodies while this kind of warfare is going on to the "front," and even if fairly well trai ed, he may grow tired of inspecting his obsolete toe, and wish possibly to count the killed and wounded, when up comes his head and of goes a reasonably good ear, and maybe a better rider.

To secure the shot we want, for wo must have one, no other conditions will be named. He may belong to a "inefficient officer who objects to an efficient weapon," regardless of the length of serrice or hard campaigns that may have helped to mase the officer inefficient, at a time when service on the plains, if all accounts are true, was somewhat different from what it is at present, or regardless of the fact that he may be gifted enough by nature to have discovered a reason of his own for wishing to retain his present weapon until he is sure that the change is for the best. He nay even doubt the unproved, though forcibly and confidently stated opinion, that "the present regulation gallop ruins the gait of the horse," to which gait the regulations alluded to, can hardly clain priority of discovery, dating as it does back to a period not with $n$ the memory of man, and somewhat later than the first discovery of the gait by the noble animal himself, doubtless sometime before tho Aryan dispersion.

Minor points of this kind will be made td gire way before the all important first requisite, to-wit: Wanted, an honest able bodied suap shot, too pure minded to tell a lie, and too unselfish to let his recret die with him.

I
an amateur artist. He does not, however, seen to have had any corresponding talent for music, and once remarked that he knew only two tunes, one of which was Yankee Doodle ayd the other wasn't.

Grant, it seems, had almost a superstition in regard to turning hack when he had once started for any destin\&tion; and Mr. Childs asks: "Was not this trait one of the secrets of his success in war?" C'ndoubtedly it was: it was certainly a valuable trait-a priceless superstition-just after the battle of the Wilde ness. A similar trait is the foundation of Von Moltke's generalshin: for the great German's prime rule of strategy is never to swerpe from an object once selected, unless compelled by resistless circuras ances to adopt a new plan.

Mr. Childs' little book is of more interest fnd value than many ponderous and pretentious ones that cumber the shelves of libraries. Incidentally, it makes us acquainted not onld with Gencral Grant, but with the large hearted philanthropist, wifose friendship for the great captain was an honor to both.
A.L.W.

Standing Orders, First Corps Cadets, Mass, chrsetts Volenteer Militia.
In this excellent little rolume of 236 pages, is collated a brief historical sketch of the corps: its by-laws, bi of dress peculiar to the corps, rules for guard and camp duties, extfacts from regulations etc. The corps was organized in 1741 for spechal duty; was included in the volunteer militia in 1840; during the Hebellion it furnisbed nearly one bundred and fifty men to the army nearly all of them to hold commissions. Membership is limited and can only be obtained upon the recommendation of a member. Par 43: "No button intunded to fasten, must be left unfastened," might well be added to our regulations. Regarding excuses from fines, Par. 76 has the true ring, and helps to account for the high standing and efficiency of this celebrated corps: "Play or pay; if the ranks ose the services of a soldier, the treasury gets the benefit of his finf." The instructions for sentinels, including grand rounds. challenkes and answers are most complete. This little book cannot be too hifhly commended. Its ralue is increased by a copious index. 6.A. L. bom.
strategie Tactique Et Politiqee. By Genelal Jung. 316 pages, 8ro., Plates and Index. Paris: Charpent er et Cie. 3 Frs. 50 c .
In this book General Jung, the well known athor of "Bonaparte et son Temps," has made a valuable contributipn to military literature. In the discussion of his subject, which may be translated as ." Tactical and Political Strategy," he adopts the somewhat novel but rery effectire method of giving analogous defipitions to the several brancbes of the subject and showing their mut al dependence upon and relation to each other. For example, he say : "Strategy and tactics taken together comprise all dispositions whych tend to secure the judicious employment of men, means and met ods, both before and daring war. Military tactics comprises all didpositions which tend for a purpose definitely knoton. Infantry tactics comptises all diwpositions which tend to secure the jadicions employmen of the fowt soldier, of the Lebel rifle, and of methods both in attack and defenee. Gavalry tactics comprises dinpositions which secure the j dicious employment of the trooper, of his horse, and of the ground, both :1s regards the combat and the oollection of information." Bimilar detinitions are given for engineet troops, the administrative department. the navy and general tactics and an elaborate discussion of tactical qualities, and the participation of the state in tactical maters, is alw, farnished. Strategy he defifes as "All the dispositions taken to scGare the judicious employmett of men, 申eans and methods for a purpose not always immediale bet always constant, which is the security. of society," and be divides if into the flllowing branches: positire. political, naval, and the participation of the state in act ve stratery. Tnder this bead he also treals of strategical qualities, infuence of piolitical considerations, politics and their nfluence upon the army, etc.

The author has handled all these subjects with great thoroughness and perspicacity; thrpaghout this book, as in so many recent French military writings, my be plainly seen his desire o reanimate the French army and restofe its confidence. He pays us the compliment of saying: "The ideal formation for infantry is the American single rank with the men paced elbow to elbow." General Jung is apparently well satisfied wh the present condition of the French army, and regards it as worthy of the pride and confipence of the nation. Interesting episodes described are the arrest a a d execution of the spy Schull in 1870, the actionsand methods of Marpbal Bazaine at Metz, the circumstances thich prerented General Deqaen from attaining a high command, a do the curious prophecs of the battle of Werl. This instractive and entertaining treatise is recommenden to the notice of every military student. $R$. K. viluon. ' $^{\prime}$ ink $\bar{q}$ :

Practical Information fo Non-Comiissioned Officers on Fielit Duty. By Brevet-Cqlonel Guy Y. Henry, U. S. Cavalry. i.j Pages. 1890.
The little pamphlet with the foregoing title is one more addition to the books which have been compiled by American arty officers in the past two or three years in order to render possible the teachint to enlisted men many things absolately necessary for them to know in order to be able to proper ly perform the duties requared of them ip garrison and in the field - but principally the latter. It is a sign of healthy progress that our officers are beginning to learn that the Army Rogulations, valuable as it is, does not contain a complete course of instraction in the science and art of 中ar, and that it $\$$ possible to ofier to soldiers in a more pleasant and practical shape, a methot of acquiring information absolptely essential to the welfane as well as the safety and success of an army.

Perhaps the maltiplicatign of such text books, so conmon in all European armies may, in the near future, induce the Far Depart-
ment to recognize the necessity for the com ilation of some book which, under the seal of its anthority, may make instruction in all field duties uniform throughout the army.

Colonel Henry has succeeded in introducint into his book under three heads, Camps, Marches and C'seful Infornation, a large amount of raluable instruction for the inexperienced, of well as some which may present itself in the form of a genuine surp ise to many who have seen years of service, but have always preferrd to create their own art of war as the need for it arose. without roubling themselves about other people's experiences or opinions regarding it.

To one remark of the anthor we wish to tase decided exception, and that is, that "rifle practice is now admitt d to be the most important part of the soldier's instruction," if b the word soldier is meant the trooper; for it requires no argument to show that, admitting the advantage possessed by the trooper who can handle his carbine effectively over one who can not, yet there are mans other duties equally important which have been, to a certain extent lost sight of in the craze for making marksmen aud sharpshooters out of caralrymen.
6. 6.66 bam

General Jobn Haymond, Colonel Fifth N. Cavalry.
Among the blessings of war is the knowle fge that a nation may depend upon her sons in case of need. Not till then does she know that there are men who will exchange the pleasures of wealth and home for danger, wounds and death or impris nment. Such a man was John Hammond, Brevet Brigadier Genefal U. S. Volunteers, colonel Fifth New York Caralry. He was ope of the first to offer his services at the head of a company of his eighbors and friends whom he mounted and armed at his own expense. He served through most of the campaigns of the Army of the Potomac, was twice wounded, and won, on many fields, the praise of his superions and the commendation of his sass. He was honored on peace as well as in war, and was followed to his grave by many s rrowing friends.

A memorial volume, recently published from the press of P. F. Pettibone \& Company, Chicago, gives many of the incidents of General Hammond's adventurous career.
E. 8.

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[^0]:    MOSES HARKIS, ('aphain. First C'rualry.

[^1]:    

[^2]:    

[^3]:    Including 856 captured or miesing.

