

Royal United Services Institution. Journal



Date: 16 June 2016, At: 19:39

ISSN: 0035-9289 (Print) (Online) Journal homepage: http://www.tandfonline.com/loi/rusi19

I. The Armament and Organization of Cavalry and Their Influence on its Tactics: II. Suggestions for Obtaining Cavalry Reserves

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To cite this article: Major S. Boulderson (1878) I. The Armament and Organization of Cavalry and Their Influence on its Tactics: II. Suggestions for Obtaining Cavalry Reserves, Royal United Services Institution. Journal, 22:95, 378-396, DOI: 10.1080/03071847809416645

To link to this article: http://dx.doi.org/10.1080/03071847809416645



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LECTURE.

Friday, April 5th, 1878.

GENERAL SIR T. MONTAGUE STEELE, K.C.B., &c., manding Aldershot District, in the Chair.

- I. THE ARMAMENT AND ORGANIZATION OF C AND THEIR INFLUENCE ON ITS TACTICS.
- II. SUGGESTIONS FOR OBTAINING CAVALRY RE

By Major S. Boulderson, 17th Lancers.

I WISH it to be understood that this is not a lecture properl but merely a paper, for it seems to me that a lecture impli opinions given are those of a person well qualified to teach an authority on the matter, and to such a position I do moment presume to aspire: my object is simply to put i very shortly and imperfectly before you, and to elicit either some future time, the opinions of men able to judge, with a correcting my own errors, and of doing good to a service am proud to be a member.

With regard to armament and organization, the points v I wish to raise discussion and to throw light are as follows:

1st. Firearms. Whether cavalry throughout should be a

them, or only partially so in each regiment.

2nd. Whether the difficulty can be got over, or lessened, ployment of mounted infantry; and if such corps are ever what is the proper place for them in our military system?

3rd. Respective value of the lance and sword, separately,

and with or without firearms.

4th. What is the best armament for British cavalry?
5th. The effects of these different armaments and organicavalry tactics.

Armament.

In January last, Mr. Graves, 20th Hussars, in his paper on Equipment," entered into the question of the armament but until I had written my paper, I had no idea of the c

¹ See Journal, vol. xvii, No. 94, page 120, et seq.

his; it is, however, a subject of such importance, that I th bear fuller investigation and discussion than he, amongst jects, was able to give it.

Mr. Graves sums up his opinion of the proper armam "It is my firm belief, that the fro cavalry, in these words. " all regiments should be armed with lance and revolver, an " rank with sabre and carbine."

Now I have quite independently come to a somewhat a a somewhat different conclusion, the difference consisting agreeing with his proposal for revolvers. Instead of revol front rank, I would have the sword, as I think the lance separated from it, and that revolvers are dangerous.

Firearms.

A great many cavalry Officers, no doubt with great reason. it is a mistake to put firearms into the hands of the cavalr will be found at the critical moment handling their firearms charging; but against this it may be said that so long as ca are used, our rule never to allow any man to fire mour meets the objection.

If, however, the recommendations of revolvers are ca weapons which are very apt to be fired off mounted and the slightest provocation, the objection remains in full Officer once told me that he has seen men in our cavalry, fir in the ranks, without any orders; and just fancy for a mom in which lancers used the revolver; how many shots wou hit the man fired at? Would not bullets be flying in all and if so, would it not be a case of "save me from my There is also the danger of being cut down if you miss you further still there is an awkwardness about a lancer using a he must either sling his lance on his arm, or hold it across in his bridle hand, either way being dangerous to his com he insists on using his pistol, might he not drop the lance a Yet it is generally admitted that firearms are necessary either out every regiment, including lancers, as at present in our by partial armament with them in each regiment; or again, certain corps, such as mounted rifles, the Russian dragoons the dismounted work.

During the 1870-71 campaign, the German Uhlans were arm themselves with chassepôts to protect themselves a Franc tireurs, &c., and I believe the Russian cavalry have considerable difficulties in the firearms of the Bashi Bazo The pistol has therefore gradually ; this last campaign. to the rifle or carbine, which I think must be accepted as firearm.

Pistols.

Nevertheless, should it be decided at any time to give the of Lancers, or any part of them, pistols again, I would single-barrelled breech-loader, to be carried on the right

man, the object of the pistol being to protect the man if killed, and never to be fired mounted, except for the purpo

an alarm on outpost duty, &c.

It is an unfortunate circumstance that no pistol, unless heavy, could be made to fire the Martini-Henry ammunitio being so great that no man's wrist could stand it. Mr gunmaker, I understand, tried it, and the man's wrist broken.

The Russians, I am informed, have had many accider

volvers in this last war.

Now, if no pistol is carried by the front rank, in fact those men could carry half the ammunition for the rea patrol or vedette duty, one lancer from the front rank, a rank man with carbine, could be detached together. The reasons given, I believe it is better not to put firear hands of the front rank at all, but if you give carbines rank only, you will have as many as you can use, and in the best shots, and the most intelligent men.

Again, when formed up in double rank for a charge, I man behind can well fire off his carbine through the fre sceing the enemy, and if he attempts to touch it, would be

serre-files behind him.

Mounted Infantry.

It must be understood that I do not advocate the mounted infantry in the place of cavalry, for I believe tha bad cavalry and indifferent infantry. But having war in being admitted that we may have to furnish three corps d Great Britain, and that six cavalry regiments per corps : I say that they can be raised from the infantry of the line and perhaps even from the volunteers, far quicker than c for this I have a plan to suggest. I propose, therefore cavalry force is no larger than at present, and that arran not made to supplement it from India, and that we a called upon to enter on a great war, we might have three: mounted infantry as divisional cavalry for the third corp is, if used at all, I think their proper place. As this place comes under the head of tactics, it will be discussed

Many authorities object strongly to mounted infantry, Schellendorf, in his second volume "On the Duties of "Staff," is very decided in his opinion against mounted in

Again, many think very highly of them, judging chic experiences of the American War, and advocate the use riflemen as éclaireurs, leaving the cavalry proper armed o lance and sword, employing them chiefly for shock combat of battle, in fact bottling them up for special occasions, support of the mounted rifles, which are to be conside cavalry, and the ears and eyes of an army; but, in my hun it would be a mistake to push out mounted infantry (cal or dragoons if you will) to the extreme front, and expect

form these duties—horsemen, the most highly trained and reliant, are alone capable of playing this rôle. The Russians dragoons, which have been organized as mounted rifle dragoons were armed with long rifle, sword, and bayonet, have been re-armed with the Berdan breech-loading carbin rifle, retaining both sword and bayonet. The armament points to the tactics, and I maintain that the tactics of the should be those of infantry, able from their mobility to support cavalry, or infantry, as may be required.

Now, if it is ever decided that this sort of regiment is our Service, I wish to point out a plan for raising a few re from four to six months, without drawing on the cavalry or a horse. Call for volunteers from the line, the militivolunteers, taking only drilled men, who can shoot, and an character; give them infantry Officers who can ride (the culty is non-commissioned officers), and attach them to ca ments, say one squadron to each regiment, to learn their sta and to ride, &c.; I am sure, from my previous experien

selected, they will learn this in four months.

To give an example:

In the spring of 1857 (the Mutiny year), Sir Sydn organized a corps, called the Peshawur Light Horse, compc Europeans, and 100 natives; half the Officers came from th and half from the cavalry; the Europeans were English picked from all the four regiments in his division, viz., the 70th, and 87th regiments; the equipment and trained cave were all ready for them; and in four months they were taug and were immediately sent a march into the district, and out some time, thus becoming shortly very efficient as caval

This proves, I think, that infantry soldiers can be taugl mounted infantry would require in four months. Major 20th Hussars, who belonged to this corps the whole ti

embodied, can bear me out.

Respective Value of the Lance and Sword.

The lance is the best and most deadly weapon, for all counters, in pursuit, or in single combat, which last our ar petition will show (its bad point being in the mêlée); its m also is very great, as was shown by the 9th Lancers in mutiny, where the mutineers used to throw themselves do ground, hide their firearms, and then jump up after the c passed, and fire at them; they used also to cut and wound th horses as they passed, who were not able to reach them. however, invariably ran their lances through them; and su terror inspired by the Delhi spearmen, as they were called enemy used to begin to run when they were miles away Hussars they cared very little. The lance is spoken favour Captain Hozier in the 1866 campaign. If all this is admit true, you will find that early in a campaign, the moral eff weapon will make itself felt by those possessing it, as agwithout it. It follows therefore, that if we are pitted agr. Russians, for instance, who have their front ranks all armed lance, except the Dragoons, we should be at a disadvantage as first encounters, at any rate, and the superiority of our men we to restore the balance.

I wish to dwell particularly on the moral effect of the we infantry even having a high respect for it. Napoleon held moral is to the physical force as three to one, and no one kr about that than he did. The Germans also thoroughly belie therefore, if by any means the morale of one cavalry can be es ever so little over that of the other, those means shoulneglected.

The question of morale decides which cavalry shall have a the greatest extent of country, and the consequent advanta

ensue to its own side.

Some people argue that, because the French have entirely the lance, it is fair to suppose they had good reason; but thei in my opinion, is simply because they are not naturally goo and it is generally admitted that the lance, to be effective, mu the hands of a good rider. Now are we not good riders as a and if so, are we to throw away the weapon which is especial to our national characteristics?

If anyone doubts our being able to use the lance, let him our annual competition, and I am sure he will be convinced.

Then why handicap our men by giving so few of them a wea

they are quite competent to use?

The proportion of lancer regiments in our own and foreig is as follows:—

English—1 to 5.

Austrian—1 to 3.

German-1 to 3.

Russian-All regiments except dragoons.

France-None.

The proportion, therefore, is decidedly against us.

The Sword.

As to the sword, it is an excellent weapon for all purposes equal to the lance in the charge and in certain cases, although that the lance cannot possibly do without it; it seems to be sary adjunct; in the mélée the lance requires its support (for of this, I refer you to Mr. Graves's paper). Why, then, not sword in close support to the lance?

I therefore come to the conclusion, that lance in front rank a in rear rank is the best arrangement; but now, as I came to clusion that firearms should only be carried by the rear ranl a second weapon for the front rank, and I think it should be the A lance is liable to stick in the enemy's body, or in that of I and be pulled out of the man's hand, and be broken; it may h its work, but still the owner is defenceless; and what so goo mélée, that is probably going on, as a sword to fall back upon

I prefer the sword to the sabre, as the point is the attack sisted on. I look upon a sabre to mean a more curved blackword.

The best Armament for British Cavalry.

To sum up, therefore, I consider the best armament for cavalry is (provided a majority is so armed), lance and swo front rank, sword and carbine in the rear rank. This seems dispose at once of the question of over-armament of lancer 1 and of the extra weight of the three arms; and the more the examined, the more, I believe, will all difficulties be four appear.

The only objection I can foresee is, that it may be said, he front rank men, when employed as vedettes, &c., to give without a firearm? My answer is, never employ a front without his rear rank man, who has a carbine; and out of thi reliance would grow, similar to the much-praised one tha

exist between front and rear rank in the infantry.

It may not be generally known that our lancer regimen armed with lance, sword, and Martini-Henry carbine in be the objection to this being, according to some opinions, that over-armed and over-weighted, and has no easy way of get

his sword and lance, on dismounting to fire.

Last year I had command of my regiment at every I divisional field-day, and during the summer manœuvres, we was frequent occasion to use the sixteen carbines per squade we then had, and in one squadron we tried a new sword-from the right shoulder and passing to the left side, with which the sword was placed loose, and an extra leather from the saddle into which the sword was transferred on dismost this sword-belt was also attached the ammunition pouch, we pense pouch for ten rounds, carried on the girdle. I am s all the men who tried this belt said it made their shoulder if ball ammunition had been carried it would have been wor

Now, if a lighter sword were issued it could be carri waist-belt through a frog, and thus be removable. Tw getting rid of the lance were tried, one by placing the butt bucket of the stirrup and strapping the pole to the walk stands upright, but in woods becomes very inconvenient; by the man who leads the dismounted man's horse, slingin on his bridle arm. This last arrangement does well enough if the horses are not fresh, but I had to give strict orders no this pace for fear of accidents. Yet I maintain that fresh c on service they would be steady enough), if you were to a mongst them, the men could not manage them with a lai arm, and would run their lances into each other, or into That is why I argue that a man with a carbine is better lance.

Nevertheless, I consider our present armament very gc you can excuse the weight of the three arms, and, cons you. xxii. 2 p small proportion of lancers in our service, we are perl are.

Foreign Armaments.

France (see armed strength of) had up to last y armed as follows:—

Cuirassiers—sword and revolver.

Dragoons, chasseurs, hussars—sword and carbine on ciple, the latter being slung over the men's backs.

No lancers.

Austria.—I cannot obtain the information, but eleven

regiments were lancers up to 1873.

Germany had up to 1876 (see armed strength of) cuit and pistol, with exception of sixteen men in each squacarbines.

Dragoons and hussars—sabre and carbine.

Lancers—lance, sabre, and pistol, with exception of in each squadron who have carbines.

Since then they have been armed throughout with c every man has lance, sword, and carbine like ourselves.

On dismounting, the lancer removes his sword and falance and the sword to the saddle with his sureingle butt of the lance in the bucket. This, however, is a both in mounting and dismounting.

Russia.—The armed strength of Russia is a trans Austrian edition of 1871, and is of no use now. From mation—not official—I learn that the cavalry through dragoons, are armed with lance, sabre, and revolver in sabre and carbine in the rear rank.

The Cossacks have usually lance, sword, and gun.

The Effect of these different Armaments and Organization Tactics.

The more the matter is examined, the more it will I questions of armament and tactics are intimately conne tell me how a regiment is armed, I will tell you what it to be.

To take a plain case, if you give a mounted man a riffe he is a mounted infantry soldier; but if you give hi carbine he is at once a hussar. Now suppose one of o ments before we had firearms engaged with a hussar hussars would have had the power of attempting to hol front with firearms, while they attacked them, mor Plenty of ground can be found where such tactics cou with advantage. The lancers, on their side, must defe portion of the hussars, and then threaten the horses of men before they can get rid of their fire, which may be behind a ditch or other obstacle in comparative safety.

Now, if we take the lancers armed with carbines, the enemy's fire; and I think so highly of the lance, and

that my belief is that the mounted lancers could afford t single rank, thus showing a superior front to the enemy, if numbers, and consequently having the power to attack hir and front at the same time.

I think lancers are especially suited to single rank forma our rear ranks are still kept too close to bring their lances do position of the charge with safety to their front rank men, an do charge, with their lances at the "Carry," and so might be

by a swordsman before they knew where they were.

Now, as to mounted infantry or rifles in conjunction with I have before said I think their place is as divisional cavalry they are under the hand of the corps-commander, to be a despatched on a raid if required; and if not so used, they are I than cavalry proper to take care of the flanks of their own and to assist in turning the flanks of the enemy. They can support any threatened point; they can be pushed to the frommencement of an action, to support the corps artillery, opressed, before the infantry comes up; and, finally, during I into an enemy's country they can keep connection between the which is ahead, and the infantry divisions, supporting the for any serious hindrance occurs to their forward march.

In a letter to the *Times*, published in that paper on 2 Captain M'Calmont, speaking of Mr. Forbes's proposal for

Reconnaissance Corps, says:-

"Sir Garnet Wolseley's suggestion in the 'Nineteenth C "increase, as I understand it, the numbers of light cavalry "corps of mounted infantry is a very different thing. Unde "organization their assistance would be valuable, while t "not supersede the regiments already highly trained for t "purpose of 'scouting.'"

This supports my view of the divisional cavalry being

infantry.

Suggestions for a Cavalry Reserve.

Discharge by purchase has recently been stopped for a tilits being re-opened, I would suggest that a man purchasin

dulgence should be obliged to enter the Reserve.

If this had been done during the five years ending Decemmy regiment, the 17th Lancers, would have had 146 mer Dragoon Guards 160 men, the 5th Dragoon Guards 157 n average service of three years in the ranks belonging to the these three regiments are on the foreign service establishment on the reduced establishment follow the 2nd Dragoon G 110, 7th Hussars 87, 19th Hussars 69, and 3rd Dragoon (all of the average service of three years; and it must be mind that men who purchase their discharge usually con higher class in life than the ordinary soldier, and are, there educated.

Just fancy how comparatively comfortable a regiment entering on active service, with such a reserve to fall back 1

Instead of which there is no Reserve at all.

Now, I think it quite possible, that if you offer to to

men on proper terms you will get some of them.

I propose, therefore, after medical examination, to offer any men who have purchased their discharge within time, returning them the money they have paid, wit option of joining their own or any other regiment they claiming their discharge free at the end of the war; being at once to count their previous service towards good con while serving, and on discharge to be given deferred previous service, as well as the time of their service duri

They will have thus a monetary inducement, both on j discharge. I maintain that it is not dear, but cheap, to

for such men.

They should also be told that if married, their families an allowance during their absence, for these families a entering a barrack; and no chance of getting the mer thrown away. To show the endless work entailed on t staff in these days, I may mention that 434 men have

my regiment in the five years named.

When I had nearly finished my paper, my attention w lecture delivered by Colonel Evelyn Wood in this Institut 1873, on "Mounted Riflemen," and on reading it my h original fell to the ground; it, however, supports the vie fectly independently formed, and points out better than effect that armament has always had on the tactics of carpose, therefore, to read you a few extracts. Colonel Wo late Field-Marshal Sir John Burgoyne wrote: "The ar" mounted infantry to the greatest advantage is as yet un

Colonel Wood adds: "He goes on to record his opini troops should not be allowed to grow into cavalry.

"it was worthy of consideration whether cavalry should n "into two perfectly distinct services; one of heavy caval

"in reserve with an army in the field; and the other to t divisions, and to partake more of the characteristics infantry than of the hussars of the present day."

He also adds: "Before our next war, the following po decided:--

"1stly. Shall a portion of each cavalry regiment, or sor be converted into mounted riflemen? or

"2ndly. Shall some system be adopted to enable a sma "light infantry soldiers to move with mounted corps?

"I think all thinking soldiers are agreed so far; it
"only necessary to ascertain which plan is the more sui!
"British nation. I venture to argue that to attempt!
"mounted cavalry soldiers compete on anything like equ!
"infantry would be as unsatisfactory as it must be Speaking of Frederick the Great, he says: "After!
"Mollwitz, where his cavalry was thoroughly beaten, he is

" rules for its guidance:—

"' 1st. Cavalry Officers awaiting an attack will be cashier '' 2nd. The attack is to be made without firing, the last

" at a gallop.'

"It was natural that the French cavalry should copy the who had abolished all firing, but they appear to have copie comprehending that the duty of a dragoon, properly so quite different from that of a cavalry soldier. Under Lubetter known for his misfortunes and cruel fate than for his genius, the dragoons were transformed into cavalry."

Colonel Wood adds in another place: "It appears to me "only those Officers who have led cavalry into action, and "their demeanour when actually striving for life, who are "to decide whether or not the constant use of firearms do "not injure their dash. Unfortunately there are not mar "but one of the few, in writing on this subject, thus a "opinion: 'Cavalry must be armed with firearms, but i " infantry, it will very soon lose faith in the sword and I "' will become quite useless as cavalry. You will never ge "' do what they did at Balaklava and Rezonville." "known story of a British cavalry Colonel, who flung his pi " pool of water when parading his regiment before going into "a forcible hint to his men to trust to l'arme blanche. "1854, at Beuseo, nearest Bucharest, Major O'Reilly, leading "cavalry, being about to charge some Cossacks, rode along "and found every man with his lance slung, his sabre in the "and his pistol cocked. When he induced them to put by th "and charge, the Cossacks were so unprepared for this "manœuvre that of about 600 only half-a-dozen attempted to "while the others fired their carbines and fled. "your cavalry to depend chiefly on firearms, you will not ge "charge; and for cavalry, considered as such, Frederick's " still good.

"General Rosser, one of the most distinguished Confedera of mounted soldiers, wrote in 1868, three years after "Cavalry was not used on the battle-fields as under Ney as

"because it was not cavalry."

He quotes Colonel Hamley and says: "Until the exact 1 "an enemy is accurately known, the cavalry will be pushed 0 "to 50 miles in advance of the Army. To obviate the risks "to this arrangement mounted infantry must accompany th "In the advance from Sedan on Paris, 4th September, 1876" Von Moltke recommending the Commanders of the 3rd Arm "Army of the Meuse 'to send cavalry far to the front, an "it by horse artillery and infantry in carts."

And he concludes his lecture by saying: "It may have of some of you, if this idea is feasible, why do not the Go carry it out? The conditions of our political life render: ordinary action by the Government difficult. Suppose mander-in-Chief and the Secretary of State for War are the advisability of creating in the regular Army some suc

"I have suggested. After consulting with his co "Minister learns that a band of well-intentioned b "Members of the Legislature will oppose any increase "Estimates, of whatever nature; so he goes to his milit "and says: 'I quite agree with you about these rifle "cannot add sixpence to the estimates; so if you must "corps, you will have to reduce another regiment."

Lieut.-General BEAUCHAMP WALKER, C.B.: It would be a very g markably good a paper as the one we have just heard should pass into out some cavalry soldier saying something about it. I do not say that have heard from Major Boulderson, but I have seldom heard in this I suggestive paper, or one containing sounder and less wild ideas. points it is remarkably good. As regards the question of arming of arms, I think that Colonel Wood, in the paper he quoted, seems to ha wrong idea on the subject. He seems to think because you arm ca arm therefore you intend them to use their firearms on the field but a madman would think of such a thing. I know the French perfectly remember old Sir Thomas Hawker, Colonel-in-Chief of Guards, telling me that the most successful charge he was ever enga by the regiment with which he served in the Peninsula against a l which moved up in line, halted, gave fire, and knocked over a cert his regiment, and then, as he said, "We were into them long before "up their carbines." Therefore, it is manifest that using carbines c is nothing short of insanity. The wonder would be how anybor such an idea that such a use of it could be admitted by a cavalry ever, would go very far with him in saying that in the present da uses to which cavalry is now put, a very large proportion, if not the armed with a firearm of long range. I do not suppose that any much stronger prejudice on that subject than I did. When I first career, after having been for eleven years in the infantry (of course about cavalry), I set to work to study the subject; I had to ask the me information, and to read and search for the experience which late in life. I formed the strongest possible opinion against the p ing cavalry generally with carbines, because I found that the c arming cavalry (unless it was the most disciplined of cavalry, whe as well trained as his Officers) was that they would not cut in—t fire the carbine than cut in with the sword. In 1860 the presen Magdala desired me to inspect a regiment of native cavalry in Ir friend Walter Fane, which did good service afterwards. I fou armed throughout with the carbine. I went straight to Sir R. reported extremely well as to the general drill and appearance of I said, "Sir, only think, the Government of India have given all "You may rest assured these fellows will never charge home; the "European Officers, and the end will be, they will stand off as fe " fire their carbines, instead of cutting in with the lance and the sv Napier, after consulting with other Officers in Calcutta, gave me morning to disarm that regiment, with the exception of twenty-squadron. But the times have changed. In those days we did n importance to keeping the enemy dark as to our intentions, as have gained a good deal of experience during the last two conti shows that if you intend to do any good you must keep your own and at the same time you must know what your enemy is about. it is now the custom to push bodies of cavalry to very great distan on the flanks of armies moving in the field, so as to form a veil to them. In the performance of this duty, circumstances frequently a not only succeed in detecting what the enemy is doing, but if the in the use of which they can employ a portion of their force, the enemy re-taking the points which they have seized upon. In f

important points of advantage which by their mobility they have gain that purpose the greater part of all cavalry should in the present day be : a firearm of sufficiently long range to compete with infantry up to a tance; in fact, up to the distance to which most sensible men think i ought to be confined. In armies where you have a very large force of c can afford to be extravagant, you may indulge in such expensive luxuric siers and lancers, but in small armies the greater portion (if not the wl cavalry ought to be armed with a carbine. I was not aware until Major told us just now in his lecture, that the whole of the Prussian lancers with a carbine, and I am very much surprised to hear it. I gave up Berlin in April of last year, and I really since have failed to follow the co armament of the lancer; I can only say what was the case while I was in The question was under discussion for two years, and every possible way the carbine and lance was tried. The Emperor was extremely opposed t one of the smartest of their Generals, Field-Marshal Von Manteuffel; agreed that for purposes on which lancers might be employed, as w cavalry, it was necessary that they should be able to hold what they got, o themselves being driven off by small and indifferent bodies of infantry. place they armed them with the French Chassepot cut short. The la Prussian Army knew so well the value of the possession of a good firear used to collect the Chassepots off the field of battle, substitute them f carbines, and carry these long rifles slung across their backs.1 They tries ing the carbine slung over the left shoulder; that was also condemned, a reason. I have been for the last six or eight years passing the whole holidays in deer-stalking, and I unhesitatingly condemn the practice of carbine, or whatever it may be, in that manner; it is a most disagreeable fortable way, not to speak of the horrible manner in which it spoils you found that if I strapped it so tight that it did not knock about when exerted a most painful pressure on the chest. If I slung it loosely, I black and blue from the trigger-guard striking on the hip. The Prussia: returned to the old mode of carrying the carbine, like ourselves, on th Major Boulderson mentioned the difficulty of dismounting. The who tried at a parade before the Emperor in the spring of 1876. loosened, the lance left in the bucket on the off side, the sword placed saddle, hilt to the front, on the near side, in the same way as the Spahis swords, and the surcingle was then buckled over both lance and sword. were taken by the centre men of threes, the rights and lefts dismoun service; but I had no idea until I heard it from Major Boulderson to-d had attempted to give the carbine to more than thirty-two men per sq doubt the lance is a most formidable weapon, but the question that mind is whether, with the extremely small force of cavalry that we have so extravagant as to have any large force of lancers. I do not think we de the whole of the front ranks of our cavalry by giving them the lance have too many lancers in proportion to the number of men who had the to mounted infantry, of which we have heard, in my opinion they ar thing nor the other; they are not good cavalry, and therefore are una take independent duties as bodies of cavalry, and they certainly to a would be spoiled as infantry. I do not think, therefore, in a small a that it is a force which is necessary for us to have. You may improve tainly, as the Germans did on certain occasions, by collecting carts infantry in those carts along with the cavalry. In that way they are but the greater part of the successful expeditions, when great hurt was enemy by destroying railways, blowing up bridges, getting possession cutting off convoys, was performed during the war of 1871 solely by being armed with good carbines, and being also good cavalry, accust long distances, accustomed to look after their horses, and to know what

¹ After the war various modes of carrying the carbine were tried, ried the carbine perpendicularly on the off side. This was rejected inconvenience when going over rough ground.—B. W.

out the whole business, were certainly more efficient than any infantry detached for the same service could have been. In Germany a most is now carried out by which the non-commissioned officers and a certainen in every regiment of cavalry are specially instructed in the use of for destroying railways. I applied to be allowed to see the instruction distinctly and positively refused by the War Minister. I am much of for listening to me, but I really felt almost ashamed, knowing the green Major Boulderson has taken, that no cavalry soldier should say a few woof his lecture.

Colonel Lord Elcho, M.P.: I have waited in hopes that some cavalry have spoken on what I venture to think is one of the most important qu could be brought before this Institution, namely, how cavalry are to be it happens, reference has been made to Colonel Evelyn Wood's lecture largely quoted from by Major Boulderson, and it happens that I was in that occasion, the late Sir Hope Grant being present. I gather from derson's lecture that he is in favour of arming cavalry in different ways. the position of the men in the ranks; that he would arm the front rar sword, and pistol, and the rear rank with carbine and sword. I was u pression that everything was tending, both in cavalry and infantry, changeableness of ranks; that in the infantry, by turning to the "righ front rank should become the rear rank, and the rear rank the front ra the same sensible change was going on also in the cavalry. occasions when it is desirable that a change of front should be made, and the impression that any idea of keeping front and rear rank distinct and differently, as proposed by Major Boulderson, belonged to a time gone l What was the origin of front and rear rank? Simply that as a tactics. show his best teeth, and if he has decayed teeth he would rather not the picked men were put in the front rank and the scrubby men in the those days of pipeclay you tried always to keep your best men in fro fore, venture to think I am borne out in stating that the tendency of get rid of these distinctions of front and rear rank, and that therefore based on the assumption of the continuance of the old system falls to The question rather is, what the whole of your cavalry should be arme to lance, sword, or pistol, not being a cavalry Officer, and only a civilian not for me to give an opinion, and if I speak at all on military matters. ground that in military matters ordinary common sense comes into pla soldiers are nothing more than hunters of men, and principles which ordinary tactics of hunting beasts apply equally to the tactics of hunting fore I say any man who hunts beasts where he has to bring his common is justified in giving an opinion on common sense matters with reference of hunting men. Let us assume that the whole of your cavalry is to b the same weapons; I mean to say that there is no distinction between f I do not say whether it should be armed with lance or sword, a rank. but I certainly think we are greatly indebted to General Walker for weight of his opinion and experience, not only in the English Army, but armies, he having occupied the responsible position of military attaché the result of his experience is, not only that we should give a fire cavalry soldier, but that it should be of the longest possible range, as face dead against what Colonel Evelyn Wood proposed, viz., the esti corps of mounted infantry. It was perhaps rather rude, but no sooner Evelyn Wood finished his lecture than a great many of those present fel objecting to the view he took, and no one more so than that distingui Officer Sir Hope Grant; he was the first to denounce the idea of these Colonel Evelyn Wood was in favour of being considered as foot-soldie horseback only. I think he said "men taken out of the ranks and tax Sir Hope Grant's view was as, I think, would be that of most of us, th that description, who are to be the éclaireurs of the Army, should be me best horses and armed with the best weapons. His Royal Highness t. at the meeting of the National Rifle Association last year, said it was as a cavalry soldier should shoot well as it was that an infantry soldier s

New shooting well not only means shooting with accuracy at a hundred that he should shoot as well at long distances as an infantry soldier. And us to the question, assuming that it is desirable that a cavalry soldier sh frearm, whether it should be a carbine or a more powerful description I think it is a matter of plain common sense, assuming that they are firearms, that if they can, with convenience to man and beast, carry ar will shoot as well as the arm which the infantry carry, they will be more the field thus armed than if—because hitherto a carbine has been commi the cavalry soldier-he is still to carry that arm, with which he is pov opposed to an infantry soldier beyond a certain range. The Secretary War the other day said the Martini-Henry carbine, which the cavalry he was more accurate at a thousand yards than the Martini-Henry rifle. man who knows anything about shooting knows that this is manifestly On my way here I went into Mr. Wilkinson's, the gunmaker's, and me respective lengths of the Martini-Henry carbine and rifle. One is el longer than the other, and any man who knows anything about shooting that the man who is armed with the carbine which is eleven inches shor rifle, if he is to meet a man armed with that rifle which is a short weap the long run either be killed or run away. That is absolutely certain as result of the shooting qualities of those two weapons. Therefore, cor points to dropping the word "carbine," and that if you are to give a fire cavalry soldiers that it should be the best they can conveniently carry. this question of carrying. The Secretary of State for War also said as: adopting the Martini-Henry carbine that in the recent war either the Rus Turks—probably the Russians—were asking for a shorter weapon on acc inconvenience of the longer one. That entirely depends upon the method There was a model cavalry corps, unfortunately now extinct, viz., Mounted Rifle Volunteers, and on the occasion of Colonel Evelyn Wood's had here its colonel, Colonel Bower, with the equipment of the corps. He pu on to a block, got on it, showed how the long rifle could be carried with the venience in the Namaqua bucket; and I can myself speak practically or because I have tried it by going over fences and through spinnies, and fr the rifle is fixed to the saddle it is no inconvenience to the rider and obstruction to the free use of the sword arm. This is probably the simple possible way of carrying a rifle. It is not an invention of Colonel Bower Bower, when employed by the East India Company at the Cape to buy h acquaintance with the Namaqua bucket, as used by the Kaffirs to carry the horseback, and there can be no doubt that they did so in the way most co themselves. Nothing can be more intolerable, as General Walker has to anybody attempting to attach the gun to himself. I have been a deersta life, and the one thing one tried to do was to put the weight of the horse, and not on one's self. That is what is done by the Namaqua by most convenient manner, and when the cavalry soldier wants to use his get it at once. I happened to succeed Lord Spencer on the Small Arms the result of which was the selection of a long-range rifle, handy and 1 would do for all branches of the Service. Up to that time there had been of rifle for the infantry, another for rifle regiments, a carbine for the another for the artillery, besides a rifle for the Navy. We thought as pr it would be an immense thing for the Service, for economy, supply of an and other reasons if, instead of having all these various arms, we could d one suitable for all purposes, and this the Committee succeeded in doing therefore, very sorry when I saw that the intention of the Committee departed from, and that we were going to have for the cavalry a carb of the Martini-Henry rifle, which the Committee intended to answer al In conclusion, I would only say that I know that there are strong advoc cavalry for the carbine as against the rifle; that they are afraid of I mounted infantry. It is not a question of their being mounted infant making them the most efficient cavalry you can for all the purposes for wh are likely to be used, and I venture to think the long rifle is more useful, whole extent and work of a campaign, than a carbine that will carry mu

distances. We are now all armed with breech-loaders. This same questio the infantry rifle and carbine really is in principle a renewal of the old : used to have in this room from time to time upon the question of b muzzle-loaders. I heard His Royal Highness the President, when at a meeting of our National Rifle Association, and when we were adoption of the breech-loader for the Army, say: "Be very cautio "adopt the breech-loader for the Army, because the ammunition will "expended that it will be difficult to keep up the supply." There wa prejudice against it for those reasons. Sadowa came and swept the v away, and I suppose there is not a man in this kingdom who would wisl a regiment armed with muzzle-loaders against a regiment with breechthat time when I found any man who was hesitating and anxious t muzzle-loader, I used to put this question to him: "Suppose you a "with an army of 20,000 or 50,000 men; you say you are in favour of "loader; you know you are going to be opposed to an army equal to "all other respects, but which will be armed with the breech-loader; "you take?" The answer invariably was: "Oh! under those circumsta: "choose the breech-loader." I use that as an illustration of this presen between a long and short range arm for cavalry. If any gentleman is the carbine for cavalry, instead of the infantry rifle which the Comm mended, I would put the same question to him. He knows he has car mand, and that he will be opposed by cavalry equal to his own in eve regards horses, as regards the morale of the men, equal in number, and : long range rifle. I would ask any man in his sober senses if he had to so armed, would be choose the long rifle or carbine for his own men? but one answer, and I venture with all due respect to say, talking as a c hope trying to talk common sense upon a common sense matter, cadet it is put in that way to gentlemen who argue in favour of short range range arms. I, therefore, hope that we may see our cavalry carrying r essentially cavalry, doing all that cavalry are able to do now, and a go It would require this, however, that their clothes should be a good dea trousers not so tight as they now are, because I often see cavalry soldithat unless their trousers are made of leather or elastic, I do not see they can get on or off their horses. That is the only other practical would be necessary, but I hope that these changes will be brought : trust that Major Boulderson will forgive a civilian for venturing to exp which materially differ from those he has expounded. At the same offer my thanks as a member of this Institution to him for having brot ject before us, for I believe few things more important can be discussed Lieut. GRAVES, 20th Hussars: Lord Elcho has differed rather with Majo

as regards the arming of the rear rank differently from the front rank, u ciple that the rear rank ought to be able to do exactly what the front ra we go "fours about;" but I think we move now in the cavalry more b "about" of troops than by getting the rear rank in front, and I this great advantage. I quite agree with Major Boulderson in saying the r should be armed with carbines, for the simple reason that scarcely if regiment use more than one-third of its firearms at any one time. very strong reason why the rear rank only should be armed with the this: when we come to a point which we want to hold, and the order i "numbers," or "even numbers with carbines, dismount!" it should a chance whether the odd numbers or even numbers may or may not shots in the whole squadron; the carbines ought to be in the hand: shots, they ought to be picked men, and ought to be drilled and tau upon their carbines that the retention of the point depends more Their place then ought to be in the rear rank. If the rear rank were with carbines we should have a sufficient number of carbines continuous the whole Service. Speaking of revolvers, the gallant lecturer says: " "the moment of a mêlée in which lancers used revolvers, how man, actually hit the men fired at." This is not a matter of theory; the the American War gives us facts upon which we can go, and I hold in

or two cases which supply a telling answer to the lecturer's question. 1861, a fight took place in Virginia between a squadron of Federal ca with the sabre, and a squadron of Mosby's armed with the revolver; th latter was one man killed and several wounded, and the loss of the 24 men killed, 12 wounded, and 62 prisoners; 36 killed and wounded I think that speaks for itself. In a similar fight the sabres lost 2 wounded, 54 prisoners and 80 horses, the Confederates, who were ar revolver, lost not a single man. However, the Commander-in-Chief has d revolvers to all the details of regiments of cavalry upon the war streng that is a step in the right direction which is supported by the facts of revolver carries the Henry-Martini bullet with a 23-grain charge of pov very useful weapon with the exception of the method of unloadir. cartridges. It is very cumbersome in that way. On the other hand, how many would be killed in a mêlée where the sabre or lance is used at Egmont-op-Zee, two troops of English cavalry charged 500 French an off; the French rallied and charged again; however, the result of bothe loss on the English side of 3 killed and 9 wounded. The fact is not cut. I forget who it was said that in the charge of the Guards at was like so many hundred hammers coming down upon as many smit a proof that our sabres as a rule do not cut. In the whole of the Fr war out of 65,000 killed on the German side, only 218 were killed a with the sabre and clubbed musket and lance. The killed by the sabre six months' war, including Woerth, Vionville, and Sedan, together wit on the Loire and the northern provinces, as well as all the outpost serv over nearly half of France, was six, notwithstanding that there were 4 Therefore, if we are going to do any work in the shape of cavalry in active service, I think the revolver is the weapon for the fra I also believe it is quite sufficient to arm the rear rank only with carb agree with Lord Elcho that it ought to be a weapon of the longest which can be carried. With regard to mounted infantry with rifles, the a question of theory, but of facts. It is not a question what we thin do, whether they might make bad caralry and worse infantry, but wl done when they have been tried. In the American war, General 10,000 of this arm under his command, and, as Sir Garnet Wolseley read a paper here last January, they were bad cavalry; however, it to take up and hold strategical points in such a way as to do great use Sheridan made of them when dealing with General Lec's rear guar to Lynchburg is very striking, but then they were thoroughly instruct of their arms, and they were the means of 6,000 prisoners being taken, 16 guns and 400 waggons. He was pursuing and came in contact guard of his opponent. He engaged them with a small force and sent a his mounted infantry round; they went in rear of the rear guard, cut the main body, and took up a position upon a river under very favor stances, and the result was that the whole lot were taken prisoners or was done by bad cavalry and only middling infantry. I was told at a the other day that the men coming for enlistment were very small. men we want for that particular work. Our hussars scale an average each; now I maintain that that is not the weight for an hussar or for i and for that particular arm, mounted infantry. They should be the obtainable, and I dare say many infantry Colonels would be glad to get good charactered men of small size and light weight. I see from the the Exchequer's statement last night that he has spent 210,000l. in supposing we have no war, what will be done with those horses? Government have a very good opportunity of forming three or four corps either of cavalry or mounted rifles, and there are many Officers very glad to volunteer for service in them. It would not occasion a expense of men to existing battalions, and I believe would be a very take it, as I look back upon history and mark the failures of great 1 armies through want of cavalry, that that is the point where we shall : a very small force of cavalry; we cannot afford to turn it into infant

force that will do the work of infantry and hold places which we can

give cavalry to.

I think the Council of this Institution may be congratulated upon o a valuable addition to their Journal as the lecture to which we have lis Note.—It may be well to remark that "mixed armament" for cavalry by such men as Jomini, Marmont, De Brac, and Napoleon, as well as si Hozier, Trower, Dennison, and Elliott, to say nothing of the telling resu warfare, and the action of several of the Powers of Europe.

General Sir WM. CODRINGTON, G.C.B.: There is one important p with regard to this armament of cavalry, whether they are to be d use these rifles that Lord Elcho speaks of, or whether they are to

their horses.

Lord Elono: They never fire mounted.

Sir WM. CODRINGTON: Then I understand that they are to be dismounced as infantry: they must have some one to hold their horses.

Major BOULDERSON: It is only in very exceptional cases. The t exactly as they were, only that they are supposed to dismount to u arms on special occasions.

Sir Wx. Codrington: Is the man who dismounts to hold his own I

Major Boulderson: No.

Sir WM. Coderington: Then there would be two-thirds of the horse others.

General BEAUCHAMP WALKER: They dismount two thirds in the Ge Sir WM. Codrington: It is essential to know whether the cavalry r his rifle from his horse, which I understand is entirely given up.

General BEAUCHAMP WALKER: Forbidden on pain of death in our s Sir WM. Codrington: Then the horse must be held by another man

I wanted to know.

Major Boulderson: There are just one or two small points I wato in answer to those gentlemen who have spoken; and first of to what General Walker has said, I merely quoted Colonel Evelyn W to show it is a matter of history that when cavalry are given firear riably do deteriorate. That was almost my sole object in quoting that it also shows that their tactics invariably alter when you alter the Then, as to the mounted infantry, I do not advocate mounted infant thing should be done to prevent the cavalry deteriorating, which I necessarily follow by giving to it these firearms throughout regiments it to use those tactics. History proves it so. Therefore, however bad of mounted infantry may be, still they are of some value, and if they their proper place to support the cavalry, they may be made considerable may be bad in some ways, but still it will save to a very great extent from deterioration by being used as infantry. My chief object mounted infantry was because we cannot supply three army corps. We are talking of sending three corps out in case of war, and I say sufficient cavalry for the third corps. I showed you a way in which you a sort of cavalry ready to act with the divisions in at most six month other way can you obtain the cavalry in that time. That this can be deby the case of the Peshawur Light Horse, which I have quoted in my I

The CHAIRMAN: I have very few words to say. It is very evide course taken at this meeting that there are a great variety of opin Officers advocate the use of cavalry exclusively as cavalry; others say can be made available for infantry purposes, and others that the mounted infantry. First, as to the firearms. I have not the slightest own mind that every cavalry soldier should be armed with a firearm. held that the cavalry man with either lance or sword in his hand may for a certain kind of service, but as for general service he is useless.

¹ By arming the rear rank only with firearms, you may keep the spirit alive, and at the same time satisfy the modern requirements.—S.

convinced of what Lord Elcho says, although the only point I have any is with reference to using the long rifle, whether it can be so slung on that it is not an inconvenience to the man mounting and dismounting, I with the carbine as slung in the bucket now it requires a man to be tole especially with those very tight trousers which have been mentioned, I car very difficult thing to get a man into the saddle, but at the same time it can be carried as well as a short one, there is no doubt the long one is it ferable. I do not at all like the idea of having the front rank arm weapon and the rear rank armed with another. I think those days If you have your front rank armed with one, and your rear with another, it may do very well, supposing all your men are on parade happen in war that your front rank men are half killed, or if you we bines, and those men are killed, you lose the use of them; whereas if yo all armed in the same way the squadron leader has only to say, "Iw men to go to the front," and those men are available for the purpe weapons they have to use. Of course, my friend Major Boulderson, be thinks it high treason for me to oppose him very vehemently, but I ha to the conclusion, that really in our Army, lancers should be done away lance is a very good weapon, and there may be cases such as those in India where no doubt it is most valuable, and there are a great many the lance is a very formidable weapon. But then we must look at the 1 between the lance and the sword. If I recollect aright there were two the Austro-Prussian war. On one occasion the Austrian lancers were Prussian hussars, and the Prussian hussars rode them down. it was vice versa, the Prussians had lancers, met the Austrian's huss Prussian lancers rode the Austrian hussars down; proving that it is no a matter of weapons but of men.

General WALKER: And place.

The CHAIRMAN: Exactly; so that with our small force of cavalry I thinking a lancer is an expensive arm for us to have. As it is at presen has to use his lance, he has to be taught the use of his sword, and al You are asking a man to attain almost perfection in the his rifle. weapons, where, as every one knows, it requires a very considerabl service to make a man able to use his lance, and when he uses his lance a swordsman, and on other occasions to be a good rifleman. do more than the great majority of men are able to do, and, therefore, afraid the lancer would be jack of all trades and master of none. With the mounted infantry there is no question, if we could have them, the occasions where they would be very good, but I am not quite certain mind whether, if the money is to be spent and the men to be obtained, be a far greater advantage to our Army to have them as cavalry and not infantry. I am very doubtful upon that fact. If the money is to be ve for having more cavalry. There are such instances as those that Lieute mentioned, in which no doubt they were very valuable, and did great se American war; but there is a feature that has come out very strongly last wars, and that is the use of the spade for an army in position, a when an army takes up a position, entrenches itself, and occupies the mounted infantry are not of very much use. Mounted infantry may be raid, or to charge an enemy's position on different occasions, but in li where you have 200,000 and 300,000 in the field, a small portion infantry will be of very little use, more especially where you have en which no mounted infantry could come anywhere near. Those are all tions I have to make, and I will, on your behalf, thank Major Boulde interesting lecture.

Lord Eleno: May I ask General Walker a question? I have hea Russians are now armed with lances.

General WALKER: They have been for many years.

The CHAIRMAN: General Walker was aide-de-camp to Lord Lucan in perhaps he can tell us whether at that charge of heavy cavalry, wh Scarlett and our heavy brigade went into that mass of Russians as a he into butter, most of the Russian cavalry were armed in regiments or in

General WALKER: I know they had lancers, because I was employe tring, and I believe I was the first person who ever counted the Russ they had sixteen squadrons armed in a certain way.

Lieutenant Graves: What pace were the Russians moving at?

General Houge: When the heavy cavalry charged in, the Cossack the regiments that went in. It so happened my regiment was in resc came in almost to the rear.

General WALKER: My impression from memory is—it is difficult to a questions on the spur of the moment—that the sixteen squadrons of reg were all hussars, and there were about 500 Cossacks who carried the li think the regiments of regular Russian cavalry which I saw day after c pretty close to, were all hussars, to the best of my recollection. If it is I should like to make one short remark, in answer to your own very apt of the campaign of 1860, where the Austrians and Prussians came out i do not think it matters when you come to heavy men whether they ar swordsmen, because the men who go the greatest pace, and cut in with determination, will probably ride the others down. I have asked Gene permission to advert to one of the most notorious instances in war wl were supposed to have gained the advantage. It was the day wh Hodge's father was killed. The story is supposed always to prove the riority which the lancers exercised over hussars; I heard the whole ste eye-witness. It seems that a body of French lancers debouching fre stuck themselves between two walls. The 7th Hussars charged them were received on the points of the lances, and spitted like fowls; but I Life Guards rode them down afterwards, when they were foolish enou out from between the walls, but not till then. It was not until the le into the open, and gave the Guards the opportunity of charging on equathey were ridden down. While they stuck themselves between the walls themselves into the phalanx they obtained the great success which the over the 7th Hussars. It was somewhat similar in the case of a very that took place between Prussian dragoons and Austrian lancers. The had a great advantage as long as they remained in the narrow stree dragoons being somewhat worsted in the commencement of the fight ret lancers were foolish enough to come out from their point of vantage, ar dragoons rode them down. Therefore it is very hard to say in a down up fight which has the best of it. Lieutenant Graves made a slight mistaing about the Prussian dragoons being heavier men than the hussars. sian dragoons and the hussars are the same sized men.

Licutenant Graves: I referred to our hussars generally.

General Walker: If it is any consolution to gentlemen here, I ma the Prussian dragoons and the hussars weigh about 1 lb. to 13 lbs. more ours do on an average; I really do not know which it is. There is not ference of weight in the equipment of the two armies; our light cavalr are as nearly as possible of the same weight, for the dragoons are light c