

THE BERTHIER QUICK-FIRER
SEA-SOLDIERS TO WEAR TRENCH HELMETS
THIRTY YEARS AGO ON THE FIRING LINE
No. 3

LITTLE TALKS ABOUT TEAMWORK
Elevation and Windage

EDITORIALS

and

THE LATEST NEWS OF RIFLE, REVOLVER AND SHOTGUN, THE ARMY, THE NAVY AND THE NATIONAL GUARD

VOL. LXII, NO. 3



APRIL 14, 1917

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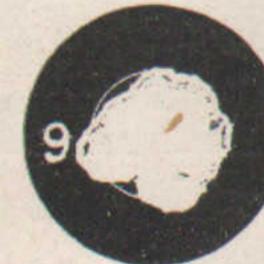
4th Match



5th Match



6th Match



7th Match



8th Match



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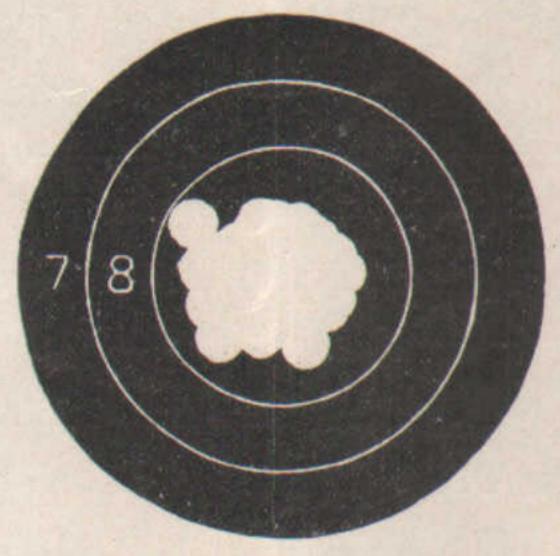


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The Machine Gun in the U. S. Army

By STEPHEN TRASK

Part 4—THE BERTHIER QUICKFIRER



HEN the onrushing hordes of Germany swept across Belgium toward Liege, at the outbreak of the European war, battered down the defences of the city and poured in to occupy, the Pipier Works, where a new machine gun was being manufactured, was abandoned.

Within the factory were blue-prints and working models of the quick-firer. The shops were even then busy constructing jigs, tools, gauges and special machinery for the manufacture of the machine guns for the company owning the patents.

But while the workmen dropped their tools and joined the exodus of citizens, abandoning the new gun to capture, one of the directors of the company came clear through the confusion and peril.

Ultimately he regained Paris. With him he brought a single set of blue-prints and a badly worn working model of the rapid-firer.

Of the other models and working drawings which fell into the hands of the German invaders, nothing is known save that it is believed—but not verified—that from those blue-prints and models were constructed the "one-man" machine gun with which battle rumor says the Kaiser's men are equipped.

From the model which reached Paris—a gun chambered for Belgian ammunition, 40,000 rounds of which had already been fired from it—new guns were constructed, and at the

present time these new quick-firers are being given final trials at the Marine Corps Rifle Range, Winthrop, Md.

The new machine gun is called the Berthier. It is the invention of General Andre Berthier-Pacha, of the French army, who took out patents upon it about eight years ago.

Already in the French service the Berthier quick-firer has been adapted not only to infantry use, but to cavalry use as well, and among the airmen it is known as the *mitrailleuse d'Avion Berthier*. A fourth type, with a steel shield, has been developed for trench use.

After the capture of the Pipier Works at Liege, the Hopkins & Allen Company, gunsmiths, of Massachusetts, made arrangements with General Berthier to take over the sample Belgian gun and the blue-prints which had been saved from the sack of Liege, and to manufacture the quick-firers in this country.

The gun shooting Belgian ammunition was exhibited to the Government officials in Washington, who stated that if the gun could be constructed to shoot the U. S. service ammunition, with its greater chamber pressure than that of the ammunition of European armies, it appeared worthy of the most careful consideration, because of its extreme mobility.

A gun was then designed and built to meet the requirements of the United States Government. The gun functioned so satisfactorily that the Navy Department ordered a lot of five

for test purposes, and since then have placed orders for several hundred additional.

The Berthier quick-firer is offered to the Government purely and simply as the lightest machine gun which has yet actually appeared, the United States model weighing in the neighborhood of only 18 pounds. This extreme light weight and its lack of bulk make possible its handling by a single man, according to the claims of the manufacturers.

The new quick-firer is a gas-operated gun, and has been manufactured in two models. The first and lightest is the air-cooled type, the barrel being protected from overheating by a radiation device similar to those in use upon both the Benet-Mercier and the Colts.

In the water-cooled type, however, a system quite different from that apparent in any of the other types of machine guns has been adopted. As in most other guns, however, the water cooling is, of course, based upon a water jacket which surrounds the

barrel. The water itself is not confined to this jacket, but circulates, under pressure, from a water bag. from which a connection runs to that part of the jacket nearest the breech of the weapon. The circulation of the water, it is claimed, keeps the temperature of the barrel to about 100 degrees Centigrade, and with a supply of 6 litres of water, the gun can fire 2,000 rounds without overheating. Whatever steam is generated in the water jacket passes off through a connection near the forward part of the cooling apparatus, to be taken up in a sponge condenser. This feature of the gun does away with the escape of the steam, which in many instances during the present war has betrayed the location of a machine gun to enemy sharpshooters.

The air-cooled model weighs, it is said, about 18 pounds, while the water-cooled model, with water jacket filled, condenser in position and magazine in place, weighs several pounds more.

While in the general principles of its operation the Berthier gun does not

operated machine guns, an effort has been made to simplify its mechanism and the gun under test at present possesses a remarkably simple breach mechanism, and in the entire construction of the gun there are but 71 parts. Its 9 major parts, the manufacturers claim, can be taken to pieces in less than 10 seconds and re-assembled in less than 20 seconds.

In the system adapted for feeding the gun, a departure from ordinary methods is apparent. The inventor of the gun has avoided the use of either the clip or the belt, and feeds the breech from a magazine holding either 30, 40 or 50 cartridges, as desired. The maximum rate of fire of the Berthier gun is placed at 600 rounds a minute. The use of the magazine, instead of the clip or the belt, is believed to militate toward the easier reduction of jams, and the time to remove an empty magazine and replace it with a loaded one is fixed at from 1 to 2 seconds.

Grenades and Grenadiers

(From The Regiment)

THE trite saying that "history repeats itself" is especially applicable to military history, and the use of the hand grenade as an infantry missile in the present war affords us a striking illustration of its truth. The re-introduction of the grenade and the rehabilitation of the Grenadier arise from very much the same causes which led to their first inception in the armies of the European Powers towards the latter end

of the 17th century.

The hand grenade (the name derived from "granada", the Spanish word for a pomegranate, from a fancied resemblance of the projectile to the fruit) was a Spanish invention, dating from the middle of the 15th century, at which period the Spanish Royal Standing Army held the place of the Imperial German Army of yore, facile princeps among the armies of Europe. Its use was for long confined to the scientific branches of the Artillerists and Engineers, who were then counted as civilian auxiliaries to the three combatant arms of the service, Horse, Foot and Dragoons. We find the hand grenade mentioned in a military treatise as early as 1472, and meet with occasional mention of its use in siege operations during the course of the 16th and 17th centuries.

Great quantities of glass grenades were used by the Venetians in the famous siege of Candia by the Turks (1667-69), which lasted without intermission for three years, and in the course of which the resources of attack and defense were dveloped in a man-

ner hitherto undreamed of in Europe.

In the year 1667 King Louis XIV decreed that four picked men in each company of every regiment of French infantry should be trained to use hand grenades. These trained men were assembled for tactical purposes in a provisional company under picked officers, but were mustered and paid in their own companies. This arrangement did not last long, and the Grenadiers of a battalion were soon formed into a permanent company. Some 10 years later Grenadier companies were established in British regiments of Foot. Evelyn in his memoirs speaks of a "new kind of soldiers called Grenadiers, wearing furred caps with coped crowns like Janizaries with long hoods hanging down behind, as we picture fools, their clothing being likewise pybald, yellow and red."

Grenadier companies were soon instituted in all the infantry regiments of all the armies of Europe, their special function being to act as a forlorn hope in the assaults upon the fortresses which at that time constituted the main objective of an invading army. For this purpose the men carried hand grenades to search out the ditches and covered ways, and hatchets to hew down the palisades which then served the purpose of modern wire entanglements.

The Grenadiers were armed like the rest of the infantry with muskets and bayonets and with short swords, writes Lieut.-General F. H. Tyrrell, in the United Service Magazine. There officers and sergeants carried fusils (a

lighter and shorter description of musket) and bayonets instead of the halfpikes and halberts carried by the similar ranks in the battalion companies. Fusilier regiments were so named from their being originally armed with these fusils. When the halbert was discontinued, the sergeants of regiments of foot were armed with fusils. The light infantry regiments of the Madras Army carried fusils up to 1860. A musket was invented with a cupshaped projection at the end of the barrel from which a grenade might be thrown, but it never came into general use.

In 1678 a troop of Horse-Grenadiers was added to each of the three troops of the English King's Life Guards. They were equipped and armed like the Grenadiers of the infantry, and dismounted to fight, linking their horses and leaving them in charge of some of their men. The second Royal North British Dragoons (Scots Greys) were also made a Grenadier corps, but no further formations of mounted Grenadiers were proceeded with in the French and British Armies.

The improvement in fire tactics, due to the suppression of the matchlock by the flintlock musket, was probably mainly responsible for the abandonment of the grenade, which ceased to be carried by the Grenadier as part of his equipment, and was only occasionally used in siege operations.

It was usesd with good effect by the British Grenadiers in the combined

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Sea Soldiers to Wear Trench Helmets

depot in Philadelphia there are being assembled a number of strange machines. In the depot store-rooms there has already been gathered a large supply of chilled-steel plates, rolled to meet certain requirements. The steel plates are fodder for the machines, which within a few weeks, at most, can be put in operation stamping out a sufficient number of bullet-resistant trench helmets to equip the entire corps.

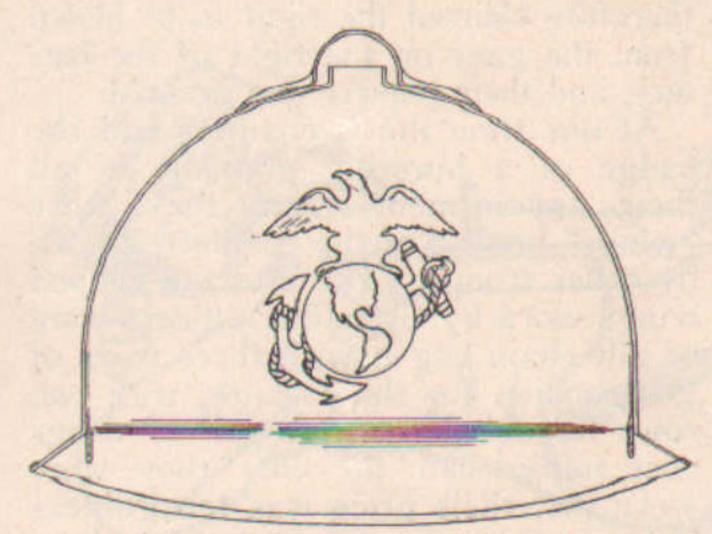
Ever since the European war embattled the Entente against the Central powers, the trench helmet-a modern scion of the armor of medieval armorhas played no small part in the equipment of the European soldiers. The French were perhaps the first of the warring nations to actually equip their men with bullet-proof headgear, and every means was used to obtain the greatest bullet resistance possible. A story was recently told by a well-known ballistic expert of a French helmet which was tested in this country. The particular helmet in question resisted eight steel-jacketed bullets fired at 100 feet from the Springfield rifle, and broke only upon the impact of the ninth missile. This, of course, was an unusual case.

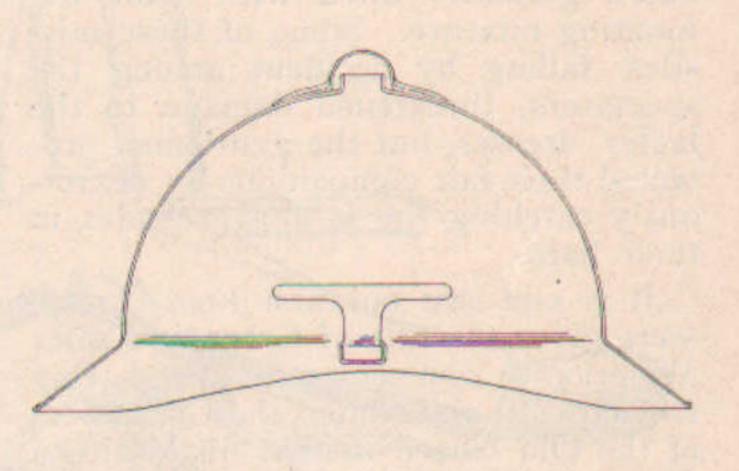
In a short time after actual hostilities

viding its men with adequate protection against the red rain of shrapnel.

The War Department experts of the United States were not slow to read the

of modern warfare, where not only shrapnel but steel-jacketed bullets with velocities of 2,700 foot seconds must be taken into consideration, is not a dupli-





Front and Side View of Design for Marine Corps Helmet

lesson of the trench helmets from the battlefields of Europe. Samples of practically every design used abroad found their way into the Ordnance Department during the first year of the great conflict.

So far the Army has not definitely fixed upon the specifications for a trench helmet for use by the infantry, cavalry and field artillery. It is practically certain, however, that in a short time a type

cate of any of the styles now in use in Europe.

When the officials of the Marine Corps determined definitely upon adding a steel helmet to the field equipment of the men, it was natural that the types already in use and which were regarded by other nations as satisfactory should have been inspected.

From the samples of helmets brought from Europe, the Marine Corps officials selected the British and the French helmets as possessing the qualities both of practicability and bullet-resistance that they desired incorporated in the Marine Corps spitzer-proof headgear.

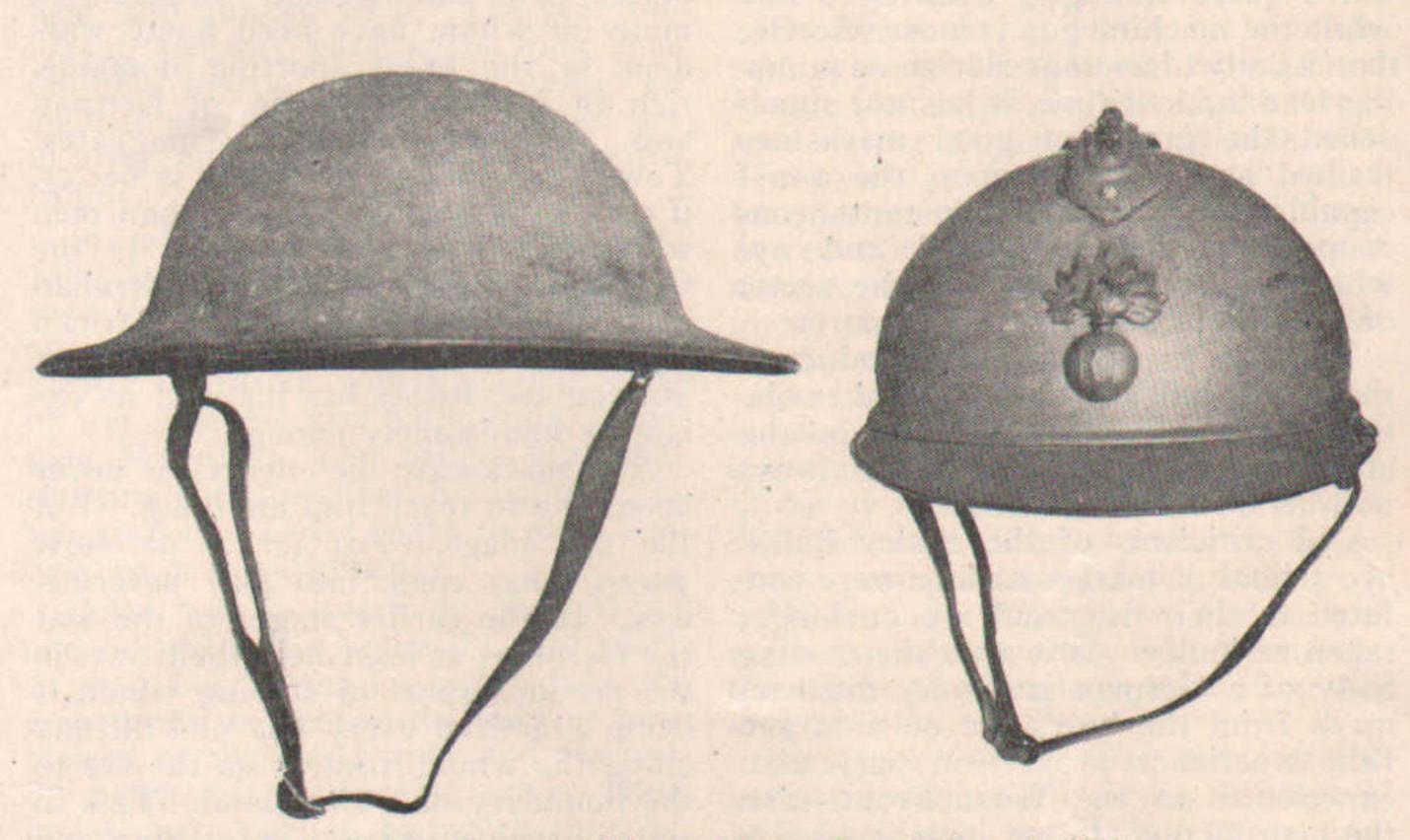
The British helmet, shallow with a gradually sloping crown to fend off any glancing impact—its lines suggest nothing so much as a cleric's "shovel-brim"—was, after due consideration, deemed a bit too heavy, and was subject to disarrangement which would permit of a more direct impact from steel-jacketed bullets than other types.

The French helmet also had its fault, although it was of far lighter weight than the British helmet.

And so, taking the better points from each of these helmets, the Marine Corps officials set about designing one of its own.

The new Marine Corps helmet follows generally the lines of the French helmet, except that it has been given some of the slope of the British helmet, and some of its brim, to afford greater protection to the ears of the wearer. In weight the Marine Corps helmet is also a compromise between the French and English. In short, the new helmet is designed to follow the conformation of the French type, with the resistance of the British. As a protection to the head, the helmet

(Concluded on page 50)



Left, British Trench Helmet; Right, French Trench Helmet

had begun, England and Germany each followed the lead of the French, the British adopting a wide-brimmed helmet and the German army clinging more closely to the lines of the Crusader's iron headgear. The German helmet, when intended for use by snipers, was reinforced across the brow by a supplemental plate of thin Krupp armor.

And so no pains were spared and no time lost by any of the nations in pro-

similar to that of the English helmet will be given official sanction and their manufacture rushed.

It has therefore remained for the Marine Corps to be the first of the United Services to actually adopt a trench helmet, and to actually prepare for its manufacture.

The Marine Corps helmets, while differing not so greatly from certain of the types accepted as adaptable to conditions

GRENADES AND GRENADIERS

(Concluded from page 44)

naval and military raid on the French port of St. Malo in 1758. As late as 1775 an English traveller who witnessed a review of a Swiss regiment in the service of the King of Naples relates that their Grenadiers performed their exercise with sham pasteboard grenades filled with some detonating mixture. Some of these missiles, falling by accident among the spectators, threatened damage to the ladies' dresses, but the gentlemen protected their fair companions by dexterously catching the falling grenades in their hats.

It is said that our first Foot Guards were given the title of Grenadiers after Waterloo to commemoratte their having encountered and routed the Grenadiers of the Old Guard in that final ruin of their Imperial Master's hopes and glories.

An officer of the Grenadier company of a Swiss regiment in the service of Napoleon has left it on record in his memoirs that he would have been frozen to death after the passage of the Beresina but for a change of dry underclothing which he had carried packed inside his bearskin cap.

When a mutiny among the Sepoys of Sir Hector Monro's army in Oude had been suppressed, many of the mutineers were sentenced to be blown from guns. While they were being tied to the guns two of them appealed to the officer superintending the execution, pleading that they were Grenadiers, and therefore claimed the right to be blown from the guns on the right of the battery, and their request was granted.

At one time the Grenadiers had the badge of a bursting grenade on all their appointments, and they wore "wings" instead of the epaulettes worn by other troops. The crescent-shaped wings worn by Grenadier officers were of gilt chain edged with three rows of gold bullion for the captains, with two rows for subalterns. A pair of wings cost more than the coat they were worn on; their price was ten guineas for a captain, seven guineas for a lieutenant or ensign.

The bearskin cap had been discontinued for Grenadiers early in the reign of Queen Victoria, at the same time that it was given to the battalion companies of the Foot Guards, who had until then worn the shako. It had

long been the custom, however, for Fusilier regiments to copy the Grenadier companies in the details of their dress and equipment, and these regiments still retain the caps and the badges peculiar to Grenadiers. The Scots Greys also still wear the bearskin cap to remind us that they were once reckoned as Horse-Grenadiers.

The Grenadier Guards are now the only corps which bears the title in the British Army; there are two Grenadier regiments in the Indian Army, and a regiment of the Canadian Militia has also the title of Grenadiers. In the French Army today the name is obsolete; but the Italian Army has two regiments of Grenadiers, the 1st and 2d Granatieri di Sardegna which are recruited from men of exceptionally fine physique. Russia boasts a whole Army Corps composed of Grenadier regiments, which form an intermediate class between the Guards and the Line.

As the siege warfare of the 17th century evolved the Grenadier, the trench warfare of the present day has evolved the bomb thrower. As the South African War saw the revival of the mountetd infantry soldier, so the present war has witnessed the re-employment of the Grenadier.

The Value of Marksmanship

A GOOD many people are under the impression that the machine gun has altogether usurped the place of the rifle in warfare, that today and in the days to come the average rifle shot and even the fine marksman must be ranged as of minor importance in tactics. One expert—a civilian and non-combatant as it happens—has actually committed himself to the statement that the rifle is going the way of the "white weapon," the sword, which is now little more than a symbol of military honor and dignity.

That statement, like the report of Mark Twain's death, is much exaggerated. It represents, no doubt, a too violent revulsion from the old War Office theory, which was the basis of practice before the war, that the machine gun, though necessary, was not really a weapon of first-rate consequence.

The superiority of the Lewis machine gun to the German weapon is two-fold. Like all our guns, big and little, it is a sounder article than its German rival, is less liable to break down, and has a longer life. It is also superior in rate of fire and in power and range.

But, however excellent it may be, the machine gun has not, nor ever will, put the rifle out of count. What the former has actually done as the latter's rival was admirably summed up by a National Rifle Association expert, who said to the writer: "The machine gun may have killed quick firing to a con-

siderable extent; it has certainly not killed quick aiming." That is to say, while the machine gun is more effective than a body of average rifle shots pumping lead against time, it has not superseded the group of good marksmen trained not to dwell upon the aim—capable of that almost instantaneous cooperation between hand and eye which is, in point of fact, the secret of success in all games and sports.

The fine marksman, the product of the Bisley bull's-eye school, makes platoon firing valuable, even if not invaluable. But as a sniper he is, and always will be, quite indispensable.

Old criticisms of the Bisley bull'seye school of marksmanship were confuted in their day, and are no longer taken seriously. It is true the moving body of a German is a very different mark from the bull's-eye on a target. But experience proves—in particular, experience on the West Front-that the man who could get long sequences of bulls at Bisley and come out high up in the King's Prize or some other great and keenly contested competition is the best sniper obtainable, once he has accustomed himself to the conditions of war's form of big-game shooting. He has acquired the rhythmic harmony between hand and eye, the balance of body, the steadiness of nerve, the decision and the precision, which form the basis of absolutely first-rate marksmanship.

The Bisley super-shot is today easily

the best in the business. He is far better than the German snipers, so many of whom have been game wardens in the great sporting domains, rich in four-footed game, of German and Austrian territorial magnates. Townsman though he be, he is better, if only by a narrow margin, than men who have lived open-air lives in the Canadian prairies or in the Australian back blocks or on the South African veldt. He has made sniping a fine art. So, you see, Bisley has justified its existence handsomely enough.

As a marksman the enemy has never been able to teach him anything. But the old adage, "Fas est et ab hoste doceri," has come into play nevertheless. In the earlier stages of the war the Germans at least held their own in the perilous sport of sniping which is being practiced every day and all day along the whole front, from the sea to the boundary of Switzerland. This in spite of their inferiority in quantity and quality of marksmanship.

They were, in the first place, rather more clever and resourceful in finding or making hiding-places. That advantage was but temporary. Today British ingenuity has worked out all sorts of cunning ideas of concealment. The British sniper can hide himself so cleverly that you would not dream of him being there until you tripped over his lair.

But what gave the German practi-(Concluded on page 50)

Thirty Years Ago On the Firing Line

Being short sketches of men who a generation back burned black powder; hand-loaded their own shells; seated bullets apart from the cartridge which contained the charge; made high offhand scores on the Creedmoor target, and kept alive for posterity, the art of marksmanship.

No. 3-T. J. DOLAN

N the Spring of 1874, T. J. Dolan, recruit in the 12th Regiment, N. Y. N. G., shot his first match on the difficult Creedmoor Range. At 200 yards he scored only 6 points out of 20 on the old square bull's-eye target, the highest count on which was a four. When he moved down to the 500-yard range, he couldn't find even the rim of the target, and so was rewarded with a string of zeroes.

But T. J. Dolan persevered, and in this his later victories, which included most of the more difficult rifle competitions of his day, should go far toward encouraging the rank greenhorn of the

present generation.

Within three months after his ignominious debut upon the firing line, he had won the Gildersleeve Badge on a score of 29 out of a possible 40, shooting at 200- and 500-yard ranges. This was more than enough as a start for Dolan. He hung to rifle practice doggedly, and when in 1879 the Military Championship United States Match was instituted, he entered against a large field, and finished sixth. The year following he was back again, that time finishing fourth. In 1881 he moved up another peg to third place, dropped out in 1883, and in 1884 won the principal trophy.

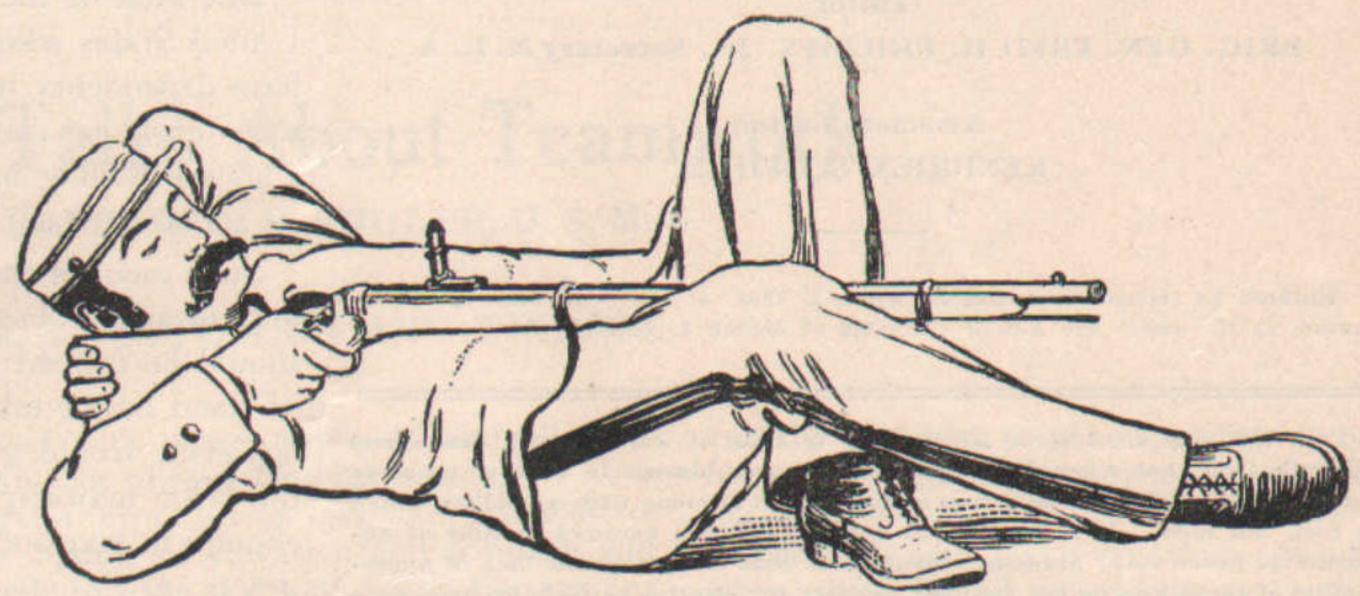
In addition, Dolan on August 11, 1880, at the Empire Club, won the 500yard Twenty-shot Match on a score of 96, using the Sharp's Military rifle, and shortly thereafter, with a possible score of 100, won the New York State Champion Marksman gold badge, that time shooting the 50-caliber Remington. It was then that Dolan began to come into

his own as a marksman.

Dolan was a native of New York, and enlisted in the National Guard when 21 years old. From his rather disheartening start, he held to the military arm instead of the match rifle, and reached the height of his shooting career when in his early thirties, by which time he had become Gunnery Sergeant of the Twelfth New York.

For his off-hand work, Sergeant Dolan assumed a position which kept his right arm as far away from his body as possible. In shooting prone, Sergeant Dolan adopted the so-called "back position," principally because he had discovered even at that early day that the sights on military rifles were invariably too far away from the eye to permit of good work without eye-strain.

In spite of the unpleasant disadvan-



The Back Position Adopted by Sergeant T. J. Dolan (From an old cut)

tages of a greater recoil, and the time consumed when it was used in the oldtime skirmish matches, Dolan was able to train himself so well to shoot in this position that it became almost second nature to him.

Dolan's list of victories is a long one, and many of the scores hung up by him in that long-gone day of black powder

were remarkably good records.

On September 3, 1880, he won the first prize in the Duryea Skirmishers' Match, placing all 20 shots on the target and scoring 71 out of a possible 100. The course of fire in this match called for: 10 shots advancing double time; 10 retreating double time; 5 halts each way, 20 seconds at each halt, from 500 to 200 yards. In this match he used the Sharp's military rifle.

On September 9th of the same year he placed 6 shots out of 7 in the bull'seye at 1,000 yards, making a score of 33 out of 35, and a few weeks later won the Mid-range Match of the N. R. A. at 500 yards, with a possible score.

He won the All-comers' Match, 200 yards, on July 17, 1882, with 3 consecutive scores of 33 each—a total of 99 out

of a possible 105.

On November 8, 1884, ten straight bull's-eyes won for him the Remington Military Match, shot at 500 yards, and on June 27, 1885, at the request of Major Shorkley, of the Army, that he break his own previous record, Dolan scored 202 out of a possible 225, shooting 75 consecutive shots, 15 each at 800, 900 and 1,000 yards. During this performance, to which there were many witnesses, he ran a string of 7 "Fives" at 900 yards.

During the fall meeting of the N. R. A. in 1885, Dolan won the Governor's Match, shooting the Hepburn military rifle, with a score of 104 out of 105.

Firing 65 consecutive shots at 200 yards with a .50-calibre rifle—a course which called for marked endurance and consistent holding—he made a score of 282 out of a possible 325 at 200 yards, and in another endurance match of 50 consecutive shots at 500 yards, with a .50-calibre rifle, he totaled 225 out of a possible 250.

WILL "BROWN" SERVICE BAYONET

The service bayonet is no longer to be a glistening blade, capable of reflecting the sun's rays and with bright flashes betraying the movement of troops.

The War Department has ordered that hereafter the knife bayonet shall be given a brown finish such as is used on the service rifle itself.

LUBRICATING BULLET DISAPPROVED

Tests were recently made at the Frankford Arsenal of a lubricating bullet for the service rifle. The bullet, designed to prevent fouling, was seated against a small amount of graphite, which was backed by a fibre wad. The test, according to the arsenal's report, was unsatisfactory.

MILITARY ACADEMIES FOR ALL STATES

A BILL proposing the establishment of a military academy, at Government expense, in each of the States, will be introduced during the extraordinary session of Congress by Congressman Buchannan, of Texas. Under the proposed bill, the academies would be jointly controlled by the State and Federal Government.



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That the man shall serve his country in time of war is noble, brave and patriotic; but that a man shall properly prepare himself in time of peace to serve in war is all of these things and more. It is noble with a nobility which is real, not ideal. It is brave with a bravery which assumes in time of unemotional peace many burdens, among them that of bearing the lack of appreciation of those who do not consider military preparation or training necessary.

CUBA ENTERS THE WAR

O those who have watched the military development of the Republic of Cuba during the past few years, the entrance of the island into the great world conflict did not come as a surprise. It was what might have been expected of a nation which has shown itself not only sympathetic to American institutions, but desirous of modeling its army upon the plan of the American forces.

For the past several years the Cuban army has been drilling with American Springfield rifles, under rules and regulations closely akin to those in vogue in the United States; and until a few months ago, the rifle practice in the Cuban army was carried on under the direction of a former United States Marine.

Because the Cuban army is so closely allied in its organization and aims to that of the United States, the little island republic should prove no inconsequential ally.

WHAT RIFLE PRACTICE CAN CONTRIBUTE

ment plan, approved by the President, for the mobilization of the National Army will be upon the statute books. This legislation will unquestionably be supplemented either by the passage of the so-called Chamberlain Universal Service bill in its revised form, or the universal-service bill drafted by the Army War College.

With two such gigantic preparedness plans working in conjunction, the military future, at least, of the United States is practically assured.

Yet, even while these two forces are at work, a great third force of preparedness should not be overlooked. That force may be embodied in the continued and unremitting training of civilians as riflemen.

The bill which has the approval of the President calls for recruiting to war strength of the Regular Army, the Navy and the National Guard, as well as allied services. It further contemplates the immediate drafting of young men between certain ages, for training along military lines. The recruiting of the regular establishments will provide places for men who desire to volunteer at once. The draft will call out a well-defined group of young men, who will almost certainly be unmarried and without dependents.

But what of the hundreds of thousands of other men in the United States who are either beyond the training age, or who have dependents, who, for this reason, may not be among those who might be classed as volunteers under the first call, yet who are willing to flock to the colors when, under stress of an actual campaign, the country needs them?

Such men, in the event of a protracted war, are subject not only to later voluntary enlistment, but to draft. As such they should be trained now for the eventuality. Of course, many of them might take courses in citizen training camps. That, however, would give them a month's training, at most, and the large majority cannot set aside their responsibilities long enough to take such a course unless the national need is great.

Yet each of these men might be interested in rifle practice and easily fall into the habit of spending spare time on the rifle range. Every hour so spent would fit them for a future usefulness, either as expert marksmen in the first-line trenches or as instructors at schools of musketry.

That is why the Government will make a grave mistake if it hesitates to give rifle practice the same, or greater encouragement, that it has in the past. It is true that both those who voluntarily enlist and those who are called as an increment of any universal training system will be trained in the use of firearms, but the Government will do well to remember that the day may be no very distant one when every ablebodied man, regardless of age limits or dependents, will be welcome in the ranks of the nation's defenders.

A RIFLE CLUB IN SERVICE

S soon as the President signed the declaration of war, a civilian rifle club in Washington, D. C., went immediately into "active service." This organization, the Home Club Target Association, will probably turn out to be the first to actually undertake a public service in the present emergency. It has incidentally pointed the way in which other communities can make use of civilian riflemen.

When the war clouds were still low upon the international horizon, Government officials in Washington began to take account of the necessity of safeguarding the Government records. Among the Government records which could hardly be replaced and the loss of which could be regarded as nothing short of a public calamity are those of the United States Patent Office. A good many years ago, when the British marched on the Capital after the battle of Bladensburg, the Patent Office was destroyed by fire. The records lost at that time have never been replaced. The Patent Office itself is a veritable fire trap and, once an incendiary blaze got under way, there would be little hope of getting it under control.

With the problem of safeguarding the Patent Office before them, the Government officials were very ready to listen to the members of the Home Club Association, most of whom are employed in the Interior Department, and who suggested a patrol.

Accordingly, weeks before war was declared, all plans were perfected, and as soon as the proclamation was signed, a day and a night shift of guards drawn from the rifle-club members went on duty.

Thousands of rifle club members will offer themselves for military service during the war. Other thousands will not be wanted under the present plan of organization. There is no reason why men not liable to active military duty should not volunteer to protect the public property, as the Washington riflemen have done.

Little Talks About Teamwork

By CAPTAIN G. K. SHULER, U. S. M. C.

No. 3-ELEVATION AND WINDAGE

HE book says, "In adjusting the sight for elevation at any range, it must be borne in mind that, in addition to the allowance made for variations in the velocity of the ammunition, allowance must also be made for the effect in differences in light, the amount of front sight seen, the effect of mirage on the target, the effect of heat of the gun developed in firing, the condition of bore as to cleanliness, the personal equation of the firer, the peculiarities of individual guns, etc., etc." In other words—nothing to it.

In all the above, the personal equation of the firer is the most important; all the other elements may be perfected, but unless the shooter is on the job, all is lost.

The first thing to teach a man about sight-setting is to demonstrate why sights have to be set. The easiest way to do this is to get a blackboard and some chalk and draw it out for him. Show by a curved line what happens to a bullet after it leaves the gun; show that there are two ways of overcoming the effect of gravity, wind, etc. One is to aim at a point other than the one you wish to hit, and the other is to aim at the objective and change the sights to overcome the difference.

Now give a few simple problems. Tell the squad that you want them to set their sights to fire at two hundred yards, using the peep sight; inspect each man's gun and see that it is set right. Now do the same thing for all the even ranges; then change to the fifty- and twenty-five-yard elevations. The important part of this exercise is the inspection to see that the line through the center of the peep coincides with the line under the figure for the range.

Now go through similar explanation concerning windage; use the blackboard to illustrate the effect of the wind on the bullet at the different ranges; give examples in setting the wind gauge. Now explain that the elevation is not always set at exactly the actual range from which the firing takes place; with some rifles the elevation is set above the range

and with others below it, and all rifles are not always true for windage. Now get a target set up and show what effect a change of elevation and windage will have on the point of hit at the various ranges. Tell them the square rule for changing elevation: that is, at any range a change of one hundred yards makes a change on the target of the square of the range in inches. For example, firing at six hundred yards, sight set at six, raise to seven and the difference on the target will be six times six, or thirty-six inches higher. Explain the quarterpoint rule for changes in windage. For a wind crossing the range at right angles to the line of fire, at any range the rule is, range multiplied by the velocity of wind (miles per hour), divided by ten, is the number of quarter points to take. For example, firing at six hundred yards, eight-mile wind coming directly from the firer's right as he faces toward the targets, six times eight is forty-eight; divided by ten gives four and eighttenths, or five quarter points right wind for the first shot.

A quarter-point windage at any range changes the point of hit that many inches on the target; that is, at five hundred yards a change of a quarter point on wind gauge makes a difference of five inches. These rules are not exact, but plenty close enough for doping the first shot.

Point to places on the target, give the range and have each man make the necessary change on his sight to bring his shots to the center of the bull's-eye; these examples are interesting and a good many may be given without the exercise becoming tedious.

Take those of the squad who have picked up this part quickly and have them help the slower ones. When all have become proficient in this lesson you will have gone about as far as it is possible to go in the theoretical instruction of setting sights. A man should never be allowed to fire the military rifle at the target until he has had some such training as the above. The rest of the sight-setting game is a matter of experience,

and the only way to get experience is to fire at the target under any and all shooting conditions.

The boys will make mistakes—go up when they should go down, go right when left should be taken; but bear in mind that each mistake is just so much more experience.

It is unfortunate that the present sight on the military rifle is such a complicated affair, and about all the praise we can give it is that it might be worse. The fellow who comes across with a better one will surely be a hero.

When a squad advances to the stage where shooting begins, the team captain or the coach—for the first few days, at least—should be right there lying along-side the firer, not permitting him to make a change in his sights unless he can give the correct reason for so doing, for it seems to be human nature to over-dope the shots and over-set the sights.

Teaching sight-setting is hard, tedious work and a part of the game that is often neglected. Don't let yourself neglect it; if you are going to be a team captain be a good one and don't spend all your time shooting or sitting in the chair looking through the telescope.

You don't have to be a crackerjack shot to be a good instructor and anyone can spot the shots through the glass.

U. S. ORDERS HOWITZERS

Forty-six 9.5-inch field howitzers, designed for tractor use, and which approximate in power the 11-inch howitzers in use abroad, have been ordered by the United States. The Bethlehem Steel Company will furnish twenty-six and the Midvale Company twenty. They are to be drawn by motor tractors. Department commanders have been ordered by the War Department to report what point under their jurisdiction should be provided with anti-aircraft guns under the authorization for purchase of 130 for continental United States, 8 for the Canal Zone, and 17 for the insular possessions.

THE VALUE OF MARKSMAN-SHIP

(Concluded from page 46)

tioners a more lasting advantage was this-instead of being liable to be shifted about, as a result of being attached, each man to his battalion, the German snipers formed a separate force, the members of which were retained throughout in the same locality. The result was that each of them got to know his little patch of country by heart, every stick and stone in it, whereas his British opponent was constantly being shifted about and compelled to begin learning a new country again and again.

What this difference of method means can be estimated by the sportsman who now has to act as his own gamekeeper and finds, perhaps for the first time in his life, how hard it is to remember even the salient natural features of, say, a bit of rough shooting. As tenant, before the war, of a boggy tract in the west of Ireland (you never knew what you and your dog would get there, the small bag was always a miscellany), the writer was reminded of this fact. He had forgotten it, in spite of the experiences of several years spent in sparsely settled portions of Western Canada.

Now that the British sniper is attached to a particular bit of country which he learns to know like a book, he is much more successful than the German practitioner on the other side of No Man's Land. Moreover, any little thing that happens there is remembered for his benefit. A German head is seen somewhere—well, there is a chance it will happen again, because it saves time to risk exposure thus, or for some other reason, and the phenomenon and the precise spot are noted for the sniper's benefit. And the net result of all this systematic common sense is that his victims outnumber the German sniper's by ten or even twenty to one. This is but one example of the way in which our New Army has been made one of the most exquisite machines of scientific warfare which has ever been seen.—The London Times.

DESCRIBES TORPEDO-FISKE PLANE

Rear 'Admiral Bradley A. Fiske, U. S. N. retired, who in 1912 patented a "torpedoplane", described his invention recently before the Aero Club. The device is intended to launch a torpedo from an airship against a warship. Admiral Fiske's address was

printed in "Flying".

"I have seen it stated in print several times," said Admiral Fiske, "that Captain Alessandro Guidoni, of the Italian navy, tried out the scheme two or three years ago, and hit the target nine times out of ten at a distance of 3,000 yards. Not having an aeroplane large enough to carry a heavy, long distance torpedo, he used a light, short distance torpedo suitable for the size of the airplane. I received private information from Europe about a year ago that a lieutenant in the British navy made four flights over the land into the Sea of Marmora in an airplane under which a Whitehead torpedo was secured and sank four Turkish vessels, using 14-inch torpedoes, weighing 731 pounds each. For this service he was given the Distinguished Service Order. A short time ago, I got a verification of this news from a wholly different source, and I also received further information which is of absolute reliability that one of the belligerent countries is taking means to use this plan on a large scale.

"I have talked about the scheme to many naval officers and many aviators. The naval officers agree with me that it would be very difficult indeed for the guns of a ship to hit a torpedoplane. Besides in a contest between a torpedoplane and a ship, the ship if she is struck is disabled, if not destroyed; while the torpedoplane can be shot full of holes without much damage, unless hit in a vital place. The aviators tell me that they see no practical difficulties whatever in doing their part of the work.

"For an attack on battleships such as might approach our coast, the large size torpedo, weighing about a ton, would be best, and this can be fired successfully from a distance of five sea miles or more. But battleships are not the only ships that would be sent against us. Destroyers, colliers, ammunition ships, scout cruisers and transports, are lightly built and have thin sides; so that light torpedoes would be thoroughly effective. I believe that our national security could be brought up to quite a hopeful condition by establishing say fifty torpedoplanes at each of the ten important naval districts, and on airplane mother ships, which would go with the fleet. Such an act would give us a quickly made and inexpensive weapon for defense. I was advised that the Aero Club of America and the National Aerial Coast Patrol Commission are making plans for developing the torpedoplane in a practical way. I feel confident that we will have torpedoplanes for the defense of our coasts in the near future."

MARINES GET HELMETS

(Concluded from page 45)

The present design, which has been approved and the manufacture of which can be begun at almost a moment's notice, conforms to the size and shape of the average head. The helmet can be more snugly fitted to the head by the adjustment of a cloth cap inside the steel shell. The helmet may be stamped from a single piece of steel, thereby avoiding weakening junctures, by the use of dies which are already prepared.

Prism Terrestrial Telescope

Specifications

Objective-clear aperture..2 inches Powers-two eye pieces....25 and 50 Length of telescope......211/2 inches Weight of telescope......21/2 pounds Weight of tripod and altazimuth mounting.....4 pounds Weight complete with carrying case.....12 pounds Dimensions of carrying case, $24 \times 6\frac{1}{2}$ x 4½ inches.

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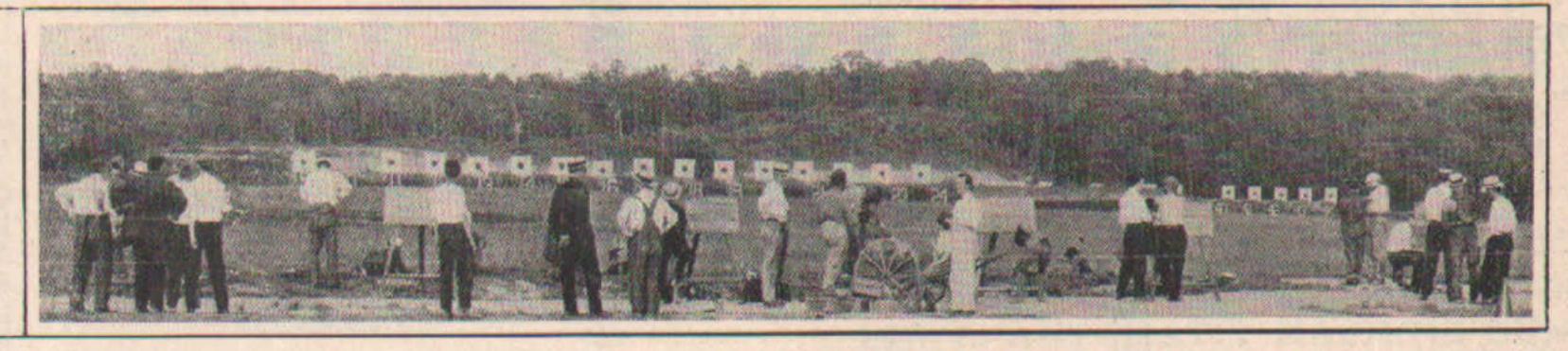
WASHINGTON

BALTIMORE

NEW YORK Woolworth Building

PHILADELPHIA Widener Building

AT THE TARGETS!



West Virginia Makes Perfect Score in Tenth Match

By PARALLAX

T has come at last. With the extraordinarily good shooting which has marked the N. R. A. gallery competitions, it seemed inevitable that somewhere along the line five men would forge to the front and hang up just one perfect score— 1,000 points out of a possible 1,000. Most of the consistent high scores have come from the ranks of the civilian clubs, the highest score up to the shooting of the tenth match having been that of the Pierre, S. D., boys, who put across a total of 998 in the seventh match. Of course, there have been unusually creditable scores scattered through the entire shoot, but it remained for the team of the University of West Virginia to register The Possible. More than that, this team in the tenth match put over a sixth perfect target, backed up by a seventh totaling 196, an eighth totaling 193, a ninth totaling 189, and a tenth totaling 186. As only the five high targets counted, the sixth possible was wasted, so far as the aggregate is concerned. But six possible targets out of any ten men comes pretty near to being perfect shooting, especially as the average of the other four ran about 191. In all of the competitions, the boys apparently made desperate eleventh-hour efforts to put over good scores.

In the civilian competition, three teams tied on their totals with 997 points. On the Creedmoor count the Park Club, of Bridgeport, Connecticut, was given first place; the Quinnipiac Club second, and the Pierre, S. D., boys, who made the 998 in the seventh match, third. The scores of the Park and the Quinnipiac clubs include three possibles each. The score of the Pierre club sports two perfect targets and three 199's.

The final official aggregate scores were not announced this week by the National Rifle Association, inasmuch as the targets will be carefully scrutinized before the official scores are published.

Team Scores In Tenth Match

| Civilian Clubs | (5) Salt Lake, Utah, Rifle and | (9) Glendale Rifle Club, Bedford Ohio | E. B. Clark |
|--|--|--|--|
| (1) The Park Club, Bridgeport, | Revolver Club | Charles Woodyatt 200 | C. O. Morn |
| Conn. | O. A. Lee | L. H. Scott 198 | Club total 000 |
| R. D. August | William Stokes 199 | W. E. Martin 198 | Club total 988 |
| A. L. Birks | R. B. Harkness 198 | Wm. C. Miller | (14) Bangor, Maine, Rifle Club |
| H. L. Harper 199 | C. T. Letchfield 198 | | C. P. Allen |
| A. B. Gully 198 | Club total 993 | Club total 990 | A. Shaw |
| Club total | The second secon | (10) Washington, D. C., Rifle Club | G. A. McLaughlin 196 |
| | (6) Boston, Mass., Rifle and | W. R. Stokes 199 | John W. Treat 196 |
| (2) Quinnipiac Rifle and Revolver | Revolver Club | J. J. Andrews | Club total |
| Club, New Haven, Conn. | M. Standish 200 | R. Alderman 198 | |
| S. A. S. Hammar | J. Kelly | W. C. Robertson 197 | (15) Watertown, N. Y., Rifle Club |
| F. J. Rohloff | H. Marshall | Club total | G. A. Abbott |
| W. H. Richard 199 | L. F. McAleer 197 | | C. R. Pearson 197 |
| W. B. Donnell | Club total | (11) Corvallis, Mont., Rifle Club | The second secon |
| Club total 997 | Club total | W. H. Christoffersen 199 Hans Christoffersen 199 | E. D. Lacy 197 |
| | (7) Peters Rifle and Revolver | C. M. Barnes 198 | Club total 987 |
| (3) Pierre, S. D., Rifle and Revolver Club | Club, Kings Mill, Ohio | J. N. Ashby | (16) G. 1 G.11 16 DIG GIA |
| Charles Staugh 200 | B. H. Buchanan 199 | Hans DeYoung 196 | (16) Springfield, Mass., Rifle Club |
| F. A. Lucas 200 | William Hines 199 | Club total 989 | L. Carlton |
| P. J. Murphy 199 | A. D. Rothrock | | M P Ryder 107 |
| H. M. Derr | Henry Feinerer, Jr 198 John Ennis 198 | (12) Marion, Ohio, Rifle Club | C. Hamilton 197 |
| | | Z. A. Meredith | D. Burlingame 195 |
| Club total 997 | Club total 992 | A. R. Sammons 197 | Club total 987 |
| (A) C. America Ele Dia, Club | (9) Dunning Ohio Dida Club | Roy Williams 197 | (17) 4.1. W V Dia. Cl. b |
| | (8) Bucyrus, Ohio, Rifle Club C. L. Mader | M. E. Carroll 196 | (17) Auburn, N. Y., Rifle Club C. E. Shapley |
| H. Davies | William Hranick 199 | . Club total 989 | J. H. Stebbins |
| F. J. Paffe 199 | C. H. Croneis 198 | (13) Lynn, Mass., Rifle and | J. H. Cole 198 |
| L. J. Capella | J. I. Miller | Revolver Club | L. A. Wheeler |
| | The second secon | W. T. Hill 198 | |
| Club total 994 | Club total 992 | C. Richardson 198 | Club total 986 |

| (18) Ft. Harrison Rifle Club, | E. R. Herrmann | (37) Main Line Rifle Club, Berwyn, Pa. | R. H. Johnson |
|---|--|--|--|
| H. J. Mueller 200 | Al Fuhbodt 193 | Charles Johnson 196 | R. Lincoln 19 |
| W. E. Conner | Club total 978 | Percy E. Matthes | Club total 96 |
| G. H. Deusner 196 | (28) Dayton, Ohio, Civilian Rifle | S. M. Kufauver 193 | (47) The Gisholt Rifle Club |
| A. O. Van Gilder 193 | Club | Horace Justice | C. E. Swanson 19 |
| Club total 985 | David Tott | Club total 967 | H. W. Woodstock 19 Al Geiger |
| (19) Hopkins, Minn., Rifle Club | Arthur Shwell 194 | (38) Hoosier Rifle Club, Indian- | E. H. Lamp 19 |
| A. Hamilton 200 | C. A. Dillen | apolis, Ind. | L. W. Brown 18 |
| P. Sundguist | | H. H. Jones | Club total 96 |
| R. Theitten 194 | Club total 976 | H. S. Evans 194 | (48) Gunnison, Colo., Rifle Clu |
| H. Metzold 193 | Ralph Ryder 199 | Charles Ridlen 193 W. F. Baker 189 | E. G. Palmer |
| Club total 985 | Elvin Ryder | | D. B. Likens 19 |
| (20) Atlanta, Ga., Rifle Club | Nathaniel McGurk | Club total 969 | M. B. Herrick |
| J. E. Oxford 199 | Theo. P. Nichols 190 | (39) Middletown, N. Y., Rifle Club | Club total 96 |
| C. C. Smith | Club total 975 | Loder | |
| W. T. Spratt 196 | (30) Guthrie Center, Iowa, | Dr. Moore 194 | (49) Mound City Rifle Club, St. Louis, Mo. |
| J. W. Boone 195 | Rifle Club | Clemson | George C. Olcott 19 |
| Club total 985 | C. C. Kennedy | Club total | J. G. Westerman |
| (21) Chicago, Ill., Rifle Club | T. W. Leach 196 | | L. C. Niedner 19 |
| John Turner | S. W. Aldrich | (40) Sidney, Ohio, Rifle Club Fred Schulz | C. W. Fulgraf |
| Geo. L. Nichols | Club total 975 | George Ehrhardt 194 | Club total 96 |
| B. B. Bulawa 196 | | Charles Rostron | (50) East Orange, N. J., Rifle Clu |
| P. F. Zinke 194 | (31) Brooklyn, N. V., Rifle Club H. Otto | Ben D. Higgins 192 | A. A. Reimer |
| Club total 984 | L. I. King 195 | Club total | J. F. Cross 19 |
| (22) Kiowa Shooting Club, | F. W. Dearborn | | A. A. Fisher |
| Des Moines, Iowa | P. F. Lahm 193 | (41) Helena, Mont., Rifle Club O. H. Koch | |
| A. T. Carter | Club total 973 | C. E. Mumpe 194 | Club total 95 |
| L. W. Scott 196 | (32) Fitchburg, Mass., Sportsman | Elmer Keith | (51) Minneapolis, Minn., Rifle |
| Ed Fines | Rifle Club | A. Angstman 190 | Con Schmitt |
| Club total | J. C. Farwell | C1 1 1 1 1 065 | T. W. Breckleimer 19 |
| | T. Williams | (42) Milwaukee, Wis., Rifle and | C. W. Stoufer |
| (23) Jacksonville, Fla., Rifle Club G. W. Gray | C T M 1 | Pistol Club Emil Teich | |
| A. R. Reynolds 196 | Club total 973 | H. W. Mansfield 193 | Club total 95 |
| F. Yerkes | (33) Manchester, N. H., Rifle and | A. E. Gaartz | (52) Birmingham, Ala., Athlets Club Rifle Association |
| C. W. Birchwood 195 | Pistol Club | John Kline 190 | T. K. Lee 20 |
| Club total 980 | R. G. Lang | Club total | O. Garl |
| | E. A. Hayes 194 | WARN AND THE THE THE AT ME | Roy Shelnut 18 |
| (24) Detroit, Mich., Y. M. C. A. Rifle and Pistol Club | THE RESIDENCE OF THE PERSON NAMED IN THE PERSO | E. G. DeFrate 200 | Captain Flinn 18 |
| F. H. Mears 198 | | H. D. Mairs 197 | Club total 95 |
| H. L. Baxter 197 F. A. Hearn 195 | Club total 972 | C. C. Sliter | (53) The Gisholt Rifle Club, |
| J. Petric | (34) Rifle and Revolver Club of New York | F. T. Marks 187 | Madison, Wis. C. Swanson |
| | A. P. Lane 196 | Club total 963 | H. Woodstock 19 |
| Club total 978 | J. A. Baker, Jr | (44) Bureau of Engraving and | E. Lamp |
| (ac) continue, actually actually | C. H. Halevy 194 | Printing Rifle Club, Wash- | A1 Gergen 18 |
| E. B. Holt | G. F. Hoffman | ington; D. C. S. E. Beach 200 | Club total 95 |
| W. H. Mower 196 | Club total | H. C. MacFate 194 | (54) Ridgeville Rifle Club, |
| N. F. Burrill | (35) Towanda, Pa., Rifle Club | H. S. Chick | W. L. Cocroft 19 |
| | D. R. Smith | J. H. Windsor 188 | B. Peterson |
| Club total 978 | F. W. Reuter 194 | Club total 963 | Charles Davis |
| (26) Newport, R. I., Rifle Club | F. D. Montanye | (45) Pacific Service Rifle Club, | E. J. Moberg |
| R. F. Hay | Club total | San Francisco, Cal. | Club total |
| H. I. Chase, Jr 195 | | R. A. Monroe | (55) Toledo, Ohio, Rifle and |
| J. D. Chase | (36) Manhattan, N. Y., Rifle and Revolver Club | L. H. Patty | Pistol Club |
| Club total | | E. N. Murphy | Bruce C. Wilson |
| Club total 978 | LeRoy Latham | Club total 963 | G. D. Carpenter 19 |
| (27) Stanton Government Rifle | Clinton Walker 193 | (46) Portland, Ore., Rifle Club | J. W. Taylor |
| Club, Nebraska C. H. Hoff | | Norman Schmitt 194 | |
| J. C. Hoff | Club total 970 | Chas. A. Myers 194 | Club total |

| (56) Citizens' Rifle and Revolver Club, New York | (65) Grand Forks, N. D., Rifle | | |
|--|--|--|---|
| F. C. Sherman | J. H. McNicol 191 H. G. Woutat 190 S. S. Caswell 188 H. L. Wood 185 | SAVAGE ARN | 15 COMPANY |
| L. D. Slade | W. C. Allen 184 | | |
| Club total | Club total 938 | QUALITY IN | Ianufacturer of |
| (57) Albion, Ind., Rifle Club Albert Black | (66) White Motor Rifle Club, Ohio | LEWIS AUT | OMATIC MACHINE GUNS |
| George Leatherman 192 Milo D. Snyder 191 Harry Black 190 John W. Green 188 | James Garton 193 J. H. Selfridge 190 F. G. Klinite 187 F. H. Squires 186 | MIL: SMALL CAL | TARY HIGH-POWER and IBER SPORTING RIFLES |
| Club total 954 | J. S. Akeroyd | AUTOMATIC PI | STOLS and AMMUNITION |
| (58) Greenwich, Conn., Rifle Club | (CT) I I N I DIG. CLA | Factories: LITIC | A, NEW YORK, U. S. A |
| H. A. Bayles | (67) Lakewood, N. J., Rifle Club Earl Sherman | | |
| P. Raymond | Daniel Jensen | Executive Offices: 50 CHURCI | H STREET, NEW YORK CITY |
| J. Rivers 184 | Pierce Sheeley 184 | | |
| Club total 954 | Augusta de Forest 183 | con to the state of the state o | (80) Middleboro, Mass., Rifle Club |
| (59) Detroit, Mich., Rifle and | Club total 936 | (74) Princeton, N. J., Athletic Club Rifle Association | Henry Pember 190 |
| Revolver Club H. L. D. Smith | (68) Scott, Ark., Rifle Club | H. M. Peach | A. E. Jenney 186 |
| C. R. Neigebaur 193 | Walter Alexander | Z. H. White 184 | S. L. Brett 170 |
| A. J. Walrath 187 | R. L. Pemberton 186 | E. C. Hunt | R. P. Jenks 176 |
| B. D. Parker 187 | H. W. Brown | Club total | Club total 904 |
| Club total 950 | Club total 933 | (75) Premo Industrial Rifle and | (81) Bureau of Chemistry Rifle |
| (60) Altoona, Pa., Rifle Club | (69) Santa Fe Rifle Club, New | - Revolver Club, New York | J. J. Huff |
| L. C. Douglass | Mexico H. S. Le Duc | F. C. Sherman | F. J. Swingle 186 |
| S. H. Owens | O. L. Wood 188 | Vccosborn P. Voelcke 181 | J. A. McLaughlin 177 |
| W. M. Esnminger 184 | T. H. Parkhurst | V. Osborn | F. C. Lucas 174 |
| Club total 947 | B. H. Gibbs | Club total | Club total 904 |
| (61) Hydraulic Rifle Club, Cleve- | Club total 931 | (76) Washington Marine Drafts- | (82) Durham, N. C., Rifle Club |
| J. Patterson 199 | (70) Ft. Wayne, Ind., Rifle and Revolver Club | men Rifle Club, District | Hames Rose |
| F. Gruber | George Gawehn | A. B. Campfield | R. G. Hershey |
| J. Singer | J. W. Patch 187 | J. F. Hecking 185 | D. K. Lockhart 177 |
| | O. E. Archibald | S. A. Sanders | Club total 903 |
| (62) Shawnee Rifle and Revolver | Club total 929 | Club total | (83) Reo National Rifle Club, Lansing, Mich. |
| Club, Lima, Ohio | | (77) Salem, Ore., Rifle Club | F. M. Hill 188 |
| Guy Sproul | A G Kellenberger | J. Mapes | K. S. Hart 182 Floyd Werts 180 |
| G. Myers | C. R. Weiner | B. W. Macy 185 H. V. Doe 179 | H. S. Applegate |
| L. F. Blank 187 | Ed Morris 185 | George Keucher 175 | Club total 893 |
| Club total 944 | Carl Coon 183 | Club total 915 | |
| (63) Covington, Ky., Rifle and | Club total 928 | (78) Saginare, Mich., Rifle Club | (84) First Team, Joliet, Ill., Rifle Club |
| Pistol Club | (72) Franklin, Pa., Rifle Club | Carl Vogt 194 | E. J. Lewis 181 |
| R. L. Trimble | W. H. Shaffer | Howard Vogt | J. C. Kimball 176 |
| W. W. Britt | C. H. Bronson | A. Lynch | C. W. Barber |
| L. C. Corcoran 185 | C. S. Boswell 183 | Club total | Club total 876 |
| Club total 941 | Club total 928 | | |
| (64) Ridgewood, N. J., Rifle Club | (73) Cazenovia, N. Y., Rifle Club | (79) Second Team, Joliet, Ill., Rifle Club | |
| II C Willard 106 | TT C Thomas 103 | Ralph Buch 188 | L. F. Chapman 179 |
| J. E. Sowter | R. D. Magee | W. H. Spurgin | George Sherman |
| W. S. Carroll 183 | G. L. Woodworth | C. T. Buell | F. W. Dordereau |
| Club total | | | Club total 875 |
| Ciub total | Court total and the court of th | | |

| (86) Davy Crockett Rifle Club, | C. C. Cassetty 196 | (12) Cornell University, | (21) University of Nebraska, Lincoln |
|--|---|--|--|
| San Antonio, Tex. | L. B. Corbett 195 | Ithaca, N. Y. K. N. Ehricke | E. T. Reutzel |
| H. C. West | Club total 984 | T. J. Ryan 186 | L. A. Wilson 173 |
| C. A. Harner 167 | (3) Michigan Agricultural College | J. N. Spaeth 184 | E. T. Kelly |
| S. Freeborn | R. D. Kean 197 | G. Rickard | H. E. Gribble 166 |
| | S. W. Harmon 196 | 021 | Club total 864 |
| Club total 859 | R. A. Pennington | Club total 921 | Club total |
| (87) Louisville, Ky., National | E. H. Pate 195 | (13) United States Naval Academy, | (22) University of Michigan, |
| Rifle Club | Club total 979 | Annapolis, Md. | |
| J. Fischer | | Grimm | H. Waterbury 188 M. Cutting 169 |
| W. C. Waters 167 | (4) Columbia University, New York City | Olswang 185 | J. L. Bateman 168 |
| V. C. Beckhart | R. E. Pickett 200 | Richard | H. P. Nicholson |
| | W. A. Fogg 196 | | |
| Club total 857 | J. F. Conden | Club total 920 | Club total 857 |
| (88) Highland, Cal., Rifle Club | J. J. Furin 190 | (14) Iowa State College, Ames | (23) Ohio State University |
| W. H. Nye | Club total 975 | L. G. Wilhelm 182 | R. P. Tappenden 180 |
| Frank Sherman 169 | (5) Norwich University, North- | H. G. Goldschmidt 181 | T. E. Holman 176 |
| E. I. Barnes 168 | field, Vt. | C. W. Methfessel | R. C. Bohannan |
| G. W. Fitzgerald 158 | J. F. Loughlin 197 | F. P. Hanson 178 | J. W. Boges 162 |
| Club total 837 | M. H. Greene | Club total 900 | Club total 855 |
| (89) Litchfield, Conn., Rifle Club | H. S. Howard 192 | | Cido total |
| S. L. Coe | P. M. Martin 190 | (15) Massachusetts Institute of | (24) Princeton, N. J., University |
| J. J. Moraghan | Club total 964 | G. Res pad, Jr | J. Horne |
| W. Butler 158 | | H. P. B.n 186 | G. F. Hasslacher |
| G. Guion 153 | (6) University of Vermont, Burlington | H. J. add Oonald | W. B. Harris 169 |
| Club total 832 | G. C. Stanley 196 | H. M. Proelke | H. N. Odell |
| (90) Lamar, Colo., Rifle Club | A. W. Stanley | Club total 894 | Club total 848 |
| K. A. Shanner 183 | R. E. Wilcox | Club total 074 | (25) Kansas State Agricultural |
| W. C. Weager 162 | W. R. Erickson 183 | (16) Worcester Polytechnic | College, Manhattan |
| John White | Club total 941 | Institute | Archie Hinzy 178 |
| H. D. Applegate 147 | (7) Notre Dame, Ind., University | H. P. Crane | H. Fairman |
| Club total 801 | Leo Vogel 190 | A. Bredenberg, Jr 177 | R. McGonough 173 |
| | | | T C 11 |
| | George Reinhardt 190 | E. B. Janwrin | J. C. Morton 130 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. | George Reinhardt | W. V. Sessions 175 | The state of the s |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 | E. B. Janwrin | Club total 839 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 | W. V. Sessions | Club total |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 | W. V. Sessions | Club total |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural | W. V. Sessions | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst 193 F. H. Canlett 193 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 | Club total |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst F. H. Canlett 193 J. P. Davies 188 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural Collège, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 E. F. Parsons 187 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 L. H. Kingsley 172 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber 174 Henry D. Banks 164 H. V. Allen 156 Chas. L. Phillips 154 Harry E. Nichols 152 Club total 800 (92) Torrington, Conn., Rifle Club E. J. Martin 171 W. L. Miller 167 | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 Club total 832 (27) Oklahoma Agricultural and |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural Collège, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 E. F. Parsons 187 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 L. H. Kingsley 172 Club total 883 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 Club total 832 (27) Oklahoma Agricultural and Mechanical College, |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber 174 Henry D. Banks 164 H. V. Allen 156 Chas. L. Phillips 154 Harry E. Nichols 152 Club total 800 (92) Torrington, Conn., Rifle Club E. J. Martin 171 W. L. Miller 167 F. J. Simmons 159 | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 E. F. Parsons 187 A. B. Loring 184 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 L. H. Kingsley 172 Club total 883 (18) Clark College, Worcester, Mass. | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 Club total 832 (27) Oklahoma Agricultural and Mechanical College, Stillwater |
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| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber 174 Henry D. Banks 164 H. V. Allen 156 Chas. L. Phillips 154 Harry E. Nichols 152 Club total 800 (92) Torrington, Conn., Rifle Club E. J. Martin 171 W. L. Miller 167 F. J. Simmons 159 C. E. Bennett 153 V. W. Allen 144 Club total 794 | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 E. F. Parsons 187 A. B. Loring 184 Club total 940 (9) State University of Iowa, Iowa City Lyman E. Case 192 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 L. H. Kingsley 172 Club total 883 (18) Clark College, Worcester, Mass. Wiler 185 Livermore 183 Dunham 178 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 Club total 832 (27) Oklahoma Agricultural and Mechanical College, Stillwater 832 E. L. Chase 184 R. R. Spencer 174 Morgan Walker 167 |
| (91) Varnum Continentals Rifle Club, East Greenwich, R. I. Walter O. Barber 174 Henry D. Banks 164 H. V. Allen 156 Chas. L. Phillips 154 Harry E. Nichols 152 Club total 800 (92) Torrington, Conn., Rifle Club E. J. Martin 171 W. L. Miller 167 F. J. Simmons 159 C. E. Bennett 153 V. W. Allen 144 Club total 794 (93) Bedford, N. Y., Rifle Club W. Vallance 171 | George Reinhardt 190 Rodney Cullen 189 W. Navin 187 Jack Young 185 Club total 941 (8) Massachusetts Agricultural College, Amherst F. H. Canlett 193 J. P. Davies 188 H. M. Rice 188 E. F. Parsons 187 A. B. Loring 184 Club total 940 (9) State University of Iowa, Iowa City Lyman E. Case 192 Horace Hinkley 188 E. W. Harper 187 | W. V. Sessions 175 Club total 890 (17) University of Illinois, Urbana H. C. Turner 181 H. C. Geselbracht 180 O. G. Brain 177 H. Weller 173 L. H. Kingsley 172 Club total 883 (18) Clark College, Worcester, Mass. Wiler 185 Livermore 183 Dunham 178 Anderson 169 | Club total 839 (26) Pennsylvania State College G. D. Musser 172 A. W. Mattern 170 G. W. McCool 165 W. W. McMillin 164 R. E. Tucker 161 Club total 832 (27) Oklahoma Agricultural and Mechanical College, Stillwater 832 E. L. Chase 184 R. R. Spencer 174 Morgan Walker 167 O. D. McNeely 149 Claude Rouse 143 |
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| (30) Dartmouth College, | (7) Miami Military Institute, | J. Kelleher 197 | (8) Baltimore, Md., City College |
|---|---|-----------------------------------|---|
| Hanover, N. H. W. S. Ross | Merrill | Robert Meardon 197 | Mulliken |
| C. L. Phillips 171 | Dohme 150 | Club total 990 | Bernard |
| H. F. Small | Giffen | (2) Placer Union High School, | Whalen 157 |
| W. Levy 98 | Kirby 136 | L. Hamilton | Club total 865 |
| Club total 713 | Club total 732 | L. Schuster 196 | (9) Burlington, Iowa, High School |
| Military Teams | (8) Shattuck School, Faribault, | R. W. Conroy | Beard 184 |
| (1) Tennessee Military Academy, Sweetwater | Minn. | V. Downs 195 | Bigler |
| Cadet Sergt. Jones | J. B. Carleton | Club total 979 | Yoke |
| Cadet Sergt. Gillespie 190 | E. H. Johnson | (3) Central High School, District | Club total |
| Cadet Lieut. Fogg | L. A. Gluck | of Columbia 105 | |
| Club total 959 | Club total 717 | Walter Stokes | (10) Dixon, Ill., High School Edgar Hoff |
| (2) New York Military Academy, | (9) Hitchcock Military Academy | Robert Morris | Raymond Worseley 173 |
| W. Elliott 192 | Laird Williams 148 | Fred Harbough 179 | Earl Shepherd |
| J. H. O'Brien 192 | Oscar Losey | Club total 940 | Lee Builta 163 |
| S. D. Kilmare | Robert Campbell | (4) McKinley Manual Training | Club total 851 |
| R. A. Childs 190 | A LEGICAL PROPERTY AND A SECOND PROPERTY OF THE PARTY OF | High, District of Columbia | (11) Central High School, |
| Club total 954 | Club total 708 | H. Stiles | Robert Bloomer |
| (3) St. Johns Military Academy Cadet Craig | (10) Mt. Tamalpais Military Academy | J. Byler | Alan Spraker |
| Cadet Strahlan 193 | A. Pollock | Grogan 181 | Kenneth Rindge 166 |
| Cadet Leidgen | R. Calles 134 | Club total | Russell Gish 166 |
| Cadet Nixon 179 | E. Cornell | (5) Cedar Rapids, Iowa, High | Club total 850 |
| Club total 946 | Club total | School | |
| (4) Bordentown, N. J., Military Academy | | Barton Pope | Ryan |
| Chois 187 | (11) Columbia, Tenn., Military Academy | Allen McArthur | Nolan |
| Lauchin | Adams | James Harned 178 | Squires 147 |
| Terry | Allen 135 | Club total 926 | Wright |
| Club total | F. Pearce | (6) Erasmus Hall High School, | Club total 808 |
| (5) Culver, Ind., Military Academy | Club total | Brooklyn, N. Y. Bernal Abel | (13) Northfield, Vt., High School |
| J. C. Root | | Marshall Grout 183 | Fay S. Hubbell |
| Charles Denby | (12) Bingham School, Ashe- ville, N. C. | Harrold Brownell | R. Warner |
| W. N. Greenway | Johnston | William Edwards 167 | E. Smith 150 |
| Club total | I. Buie | Club total 883 | Club total 787 |
| (6) Kemper Military Academy, | Underwood 116 | (7) Jamaica High School, Long | (14) Western High School, District |
| Boonville, Mo. Corpl. Dew | Club total 613 | Island, N. Y. Harry Van Allen | Willis |
| Lieut. Phillips | High School Teams | Helmer Borden | A. Hastings 163 |
| Lieut. Wootten | (1) Iowa City, Iowa, High School | | Shoemaker 148 |
| Corpl. Fox 159 | Otis Darner 199 | Arthur Wehle 168 | Hancock 122 |
| Club total 835 | John Dondore | Club total 869 | Club total 761 |
| | | | |

Norwich Wins Team Match in M. R. A. Contest

THE rifle team of Norwich University I won the five-man team match, the feature event of the second annual indoor Spring tournament of the Massachusetts Association of N. R. A. Clubs, at the Bay State School of Musketry, Gainsboro street. The team scored 975 points out of a possible 1000.

The Boston Rifle and Revolver Club was second with 963 and the Lynn Rifle and Revolver Club, with 961, was third.

James F. Loughlin of the winning team, was the star, scoring 29 consecutive tens and his 30th shot counted for nine. It was a four-target match, to score a possible 200. H. S. Hatch, Waltham, was tied for sec-

Loughlin is a resident of Stoneham and since 1913 has been a member of the Massachusetts State Rifle Team.

ond, with L. J. Fishe, Lynn, with 198.

The tournament, which attracted nearly

New England.

The individual club match had F. H. Collett of the Massachusetts Agricultural College scoring 184 out of a possible 200. Greene and Shequin, Norwich University, tied for second and third places with 179.

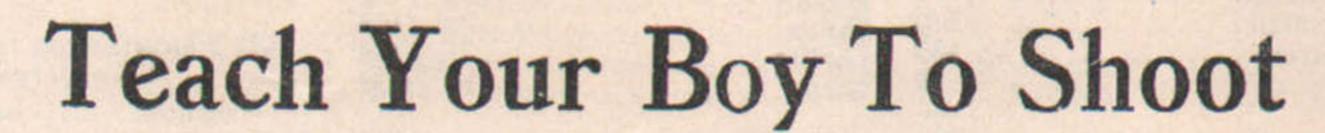
The two-man team match at 25 yards was won by Anselmo, Boston English High School, and Skinner Dorchester High. The former scored 199 out of a possible 200, while the latter got 196, their aggregate scores being 395. Martin and Loughlin, Norwich University, with scores of 196 and 197 respectively for a total of 393, were second, Edward Parsons and F. H. Collett, Massachusetts Agricultural College, were third, 198-194-392.

In the No. 1 school match at 25 yards. Boston English High scoring 957 out of a possible 1000, took first, Dorchester was

300 entries, was the largest ever held in second with 942, and Brookline, third, 936.

The two-man team school match was won by McCabe and Beal, Brookline High, their joint efforts being 386. F. Holmes and A. Sawyer, Boston English High, finished second, with 384, while S. W. Reid and Chase, of Dorchester High, with 374, were third. The individual match for school boys was won by S. Bolton, Brookline High, with 192, Skinner and McCabe, Dorchester High, tied for second, with 190.

About a dozen women took part in the individual match at 25 yards, slow fire, 15 shots (three targets). Miss Carlisle won, getting 138 out of a possible 150. Miss Gardner was second, scoring 134, and Miss Dodd finished third, 133. The women's team match was won by the Misses Gardner, and Brown, their aggregate efforts showing 372. Miss Dodd and Miss Pearl Hatch were second, with 256.



EVERY boy instinctively loves a gun. Most fathers have had to listen to the plaintive appeal "Dad! I want a gun!"

When you start to teach your boy to shoot, you will get closer to him than ever before. Not only will the young fellow acquire manly habits and self-control, but he will learn to handle firearms with safety to himself and others.

When your son asks for a rifle, he will naturally expect a Winchester. His boy friends will surely ask what kind of a rifle his father selected. Fix it so he can proudly answer, "A Winchester, of course!" Every

man and boy knows that the Winchester is the best—the most accurate and reliable.

A father should welcome the chance to become his boy's "Pal" by teaching him how to shoot. It may be very valuable knowledge some day.

Ask your dealer to show you the complete line of Winchester .22 caliber Rifles: Repeaters, Single Shot and Automatic.

All styles and prices to suit all tastes and pocket books.

Winchester Repeating Arms Company

NEW HAVEN

CONNECTICUT

SUGGESTIONS ON GUN CABINETS

CO long as a newly initiated sportsman or target shooter has but one or two guns, he can usually find a place for them in any convenient cupboard or bureau drawer. Gunitus is, however, a progressive disease and it does not take long for the enthusiast to accumulate a varied assortment of shotguns, rifles and revolvers. Just about this time the lady of the house enters strenuous objections to plugging up her domain with that which she usually terms "junk."

If the sportsman has a few dollars to spend he can pick from a number of different gun cabinets one suited to his taste and pocketbook. The amateur carpenter usually proceeds to construct a cabinet of

his own.

Whatever the design employed, the main purpose of a gun cabinet is to have a place for every firearm, all the accessories and the ammunition. One of the neatest designs I have seen recently is a built-in cabinet which occupies one corner of a shooter's room. It not only economizes space but is easy to construct, for only front doors had to be built. The converging walls which form the back of the cabinet, make an ideal place to put a rack for shotguns and rifles and little wooden pegs on which to hang the short arms. The bottom of the cabinet will take care of cleaning accessories, such as a supply of cloth patches, nitro solvent oil, bristle brushes, joined rods, etc., and a triangular shaped drawer underneath the floor of the cabinet, which should be raised about a

foot or eighteen inches above the floor of the room, can be utilized to store ammunition.

If located in the upper part of the house the cabinet can be made with glass doors, but if placed in the lower hallway should certainly have wooden doors to remove temptation from the path of the tradesman's boy.

Frequently it is desirable to place the cabinet in a corner of the room where the light is not particularly good and gun cranks with a mechanical turn of mind will be sure to fit a small electric light in the top of the cabinet operated by dry cells or storage battery and which lights when the doors are opened.

Aside from the convenience of having all of the firearms in one place, a gun cabinet is a real advantage because it prevents sudden changes in the temperature of the firearms and of the air surrounding them, something that happens frequently when the windows are open at night. These sudden changes are often the cause of rust, since they are very liable to leave moisture on the surface of steel.—A. P. Lane.

STATEMENT OF THE OWNERSHIP, MANAGE-MENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912.

of ARMS AND THE MAN, published weekly at Washington, D. C., for April 1, 1917. District of \\ Columbia \\ \ \ ss.

Before me, a notary public in and for the State and County aforesaid, personally appeared Fred H. Phillips, Jr., who, having been duly sworn according to law, deposes and says that he is the editor of

the ARMS AND THE MAN, and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above carrion, required by the Act of August 24, 1912, embodied in section 443, Postal Laws and Regulations, printed on the reverse of this form, to-wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, National Rifle Association, Washington, D. C.; editor, Fred H. Phillips, Jr., Washington, D. C.; managing editor, Fred H. Phillips, Jr., Washington, D. C.; business managers, Executive Committee, National Rifle Association.

2. That the owners are: National Rifle Association of America (no stock issued); Lieut. Col. William Libbey, president, Princeton, N. J.; Mai. Wm. C. Harllee, first vice-president, Washington, D. C.; Maj. S. W. Brookhart, second vice-president, Washington, Iowa; C. C. Crossman, third vice-president, St. Louis, Mo.; Lieut. Col. David M. Flynn, treasurer, Princeton, N. J.; Brig. Gen. Fred H. Phillips, Jr., secretary, Washington, D. C.

3. That the known bondholders, mortgagees and other security holders owning or holding I per cent or more of total amount of bonds, mortgages, or other securities, are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company, but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circums ances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association or corporation has any interest, direct or indirect, in the said stock, bonds or other securities than as so stated by him.

FRED H. PHILLIPS, JR., Editor. Sworn to and subscribed before me this 31st day of March, 1917.

(Seal) KATHERINE A. MULLEN. My commission expires March 10, 1919.

Off Hand From the Clubs

Blowing Up Some More Guns

By E. C. CROSSMAN

T N the issue of March 8 there appears an a outbreak by my fellow-criminal. Gloomy Linder, of the Limpy Club of San Francisco. taking on Brother Lane over the compressedair theory as the reason for blown-up barrels. In this outbreak, Brother Linder calls me into court to stand by his side when the return bricks begin to fly.

I come, both because he's got something on me, and because he's right. Otherwise, being of a peace-loving and retiring disposition, I'd keep out of this prospective hair-pulling

match.

Being habitually lazy and preferring a typewriter with its cover on to one being patted on the back by my own fair fingers, I am cutting from an article of mine in the Sporting Goods Dealer for May, 1916, on blown-up guns, a couple of paragraphs embodying the air-theory so far as I am concerned.

I don't think there is a thing in this air talk, despite the trials of the field with their pressure plugs along the barrel. I note a human weakness in most experimenters in being able to make results jibe with previous belief, unless they go at the matter with unusually open mind, while a Britisher is the hardest person in the world, outside of a German, to make acknowledge that he's wrong.

Brother Linder has summed up the matter so well that there's nothing left to say, outside of adding my own "moral and physical

support."

Some years ago a regular bolt action row broke out in this British paper as to just what burst gun barrels, the Field, using pressure gun and plugs, vowing that compressed air between obstruction and shot or bullet did the damage, Rigby and F. W. Jones, the great powder expert, insisting that the burst came from wave action, set up by the sudden check to the rushing powder gases. It may be that both are right. It is certain that the air theory must fail when we look over some burst rifle barrels, in which the pressure required was too terrific to admit of anything else than some freakish action of the powder gases which nearly approach the effects of a detonation of a charge.

The Field, setting pressure plugs along the barrel, proved that the great pressure came between obstruction and missile, which of course could come only from compressed air. not from gas action, which would show behind the missile, not between it and the ob-

struction.

Two or three years ago I spent an evening in Utica, with Pascal De Angelis, of the Savage plant, one of the brightest men in the gun business, and Jack Pederson, works manager of the Remington plant and the inventor of the Remington pumpgun and trombone rifle.

The question of bursts came up. Pederson told of some of the trials of the new and fine Remington pump, and their trials of various types of actions under overloads and obstructions. They, of course, blew up barrel

after barrel.

"You can take it as gospel," said Pederson, "that bursts come from wave action set up in the powder gases, not from any compression of the air, and that bursts are caused by actual weight in the obstruction, the old sealing the bore theory is all bunk. You can seal the bore all you choose if the seal has

not weight enough effectually to check the speed of the bullet or shot charge, and you won't do any harm, but put an obstruction in the barrel, sealed or not sealed, enough to check up the progress of the bullet or shot, and you get a burst behind the bullet or shot."

This Pederson person has the earmarks of the man who knows whereof he speaks, his experience is as great as that of the British upholders of the compressed-air theory, and our own experiments went to show that sealing the bore amounts to not one whoop in effect; there must be considerable resistance. Air can be compressed just so much—we can liquify it without anything wonderfully strong in the way of machinery-while there is practically no limit with gun-barrel strength to the force exerted by expanding powder gases against resistance. The actual work that can be gotten from a pound of Schultze, fired in a closed chamber, where it has to exert all of its energy, is over 19 feet tons. That is enough to raise 19 tons a foot in the air!

The Veterans' Rifle Club of Fort Sam Houston, Tex., is one of the largest in the state, having a present membership of ninety. The club is expecting to pass the 100 mark within the next few weeks.

That it pays to advertise is the firm conviction of the members of the Honolulu,

Hawaii, Rifle Club.

The members of this organization had for more than a year been without a range, owing to lack of co-operaion on the part of the army. With no place to shoot, the members got together and inserted a display advertisement in a local paper, setting forth the fact that "One hundred loyal American citizens who believed in military preparedness" desired to learn to shoot the rifle accurately, but were prevented by lack of a range. The day after the advertisement appeared, George P. Castle, a wealthy resident of Honolulu, came forward and offered the club the use of a tract of land abutting on Diamond Head, and signified his willingness to build the boys a club house.

William N. Beardsley, of Bridgeport, Conn., is interested in the Swiss sight mentioned in a recent article of Crossman's on the Camp

Perry shoot. He says:

"The article was very interesting, and there are others as well as myself who would be glad to learn what kind of an open sight was used by the Swiss riflemen to obtain such uniform shooting at 300 yards while exposed to weather conditions of light and shade. Was the rear sight a long flar bar with a 'V'? or was the notch shaped like the 'U'?"

Members of the Shoshoni, Wyo., Rifle Club are interested in the formation of a state association.

Eighty citizens of Poughkeepsie, among whom are several members of civilian rifle clubs, have for the past several months been organizing a Provisional Military Company. This organization is contemplating organizing as a rifle club.

INQUIRIES OF GENERAL INTEREST

In this column will appear excerpts from requests for information and for official interpretations, made to the National Rifle Association, the replies to which may be of a generally informative nature.

Q. How much must the front sight of the 1906 Springfield be raised to shoot point-blank

at 200 yards?

A. One one-hundredth of an inch change in the height of the front sight will make a change at 200 yards of 31/4 inches. Determine, by experimental firing, how much too high or too low the hits are made. Divide this amount in inches by 31/4 and it will give the number of hundredths of inches change necessary to make in the height of the front sight. Front sights are furnished by the Ordnance Department in various heights. The height of the sight is stamped on the side of the sight. By referring to this indicator, it is possible to order the sight desired.

Q. How clearly defined should a target appear through a 5-power telescope sight? Should the white circles in the black bull be visible? The best results I can obtain through the sight I have does not clearly define the bull at 75 feet, and the cross-hair reticule seems to fade away, leaving a sort of haze.

A. The telescope is evidently out of adjustment, as the bull's-eye should appear to be only one-fifth of the actual distance away and the counting rings should be seen distinctly.

The power of your scope is all right, although the B-5 is not considered as good as some other models which the same people put out, yet it should get you a clear definition of the bull. One trouble may be that you are placing your eye too close to the eye-piece lens, as the normal distance, when the scope is mounted on the gun, is from four to six inches. First try looking through the scope with your eye about five inches away, then if still hazy, try to focus by turning adjustment on front end of scope first one way and then the other. If this does not get results, the best thing to do is to return the scope to the factory for adjustment.

Q. Does any firm make a bead sight for the .45 Government automatic pistol?

A. No. If you expect to shoot in any of the Government matches I would suggest that you do your practicing with the regular sights, for they are the only ones allowed in the matches.

Q. What should be done when a club member is dropped for non-payment of dues, and has in his possession a rifle purchased through the club and transferred to him upon qualification.

A. There is nothing to be done. When a rifle-club member qualifies and receives title to a rifle, the weapon becomes his personal property and the club ceases to have any control of it or interest in it.

Q. Is it necessary or advisable for a rifle club to incorporate?

A. There are only a few clubs among those affiliated with the National Rifle Association that have found incorporation necessary.

Incorporation simply tends to give the club a better standing in its community and permits it to make transactions, such as the purchase of property.

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Clubs Admitted to N. R. A. Membership During the Past Week Include:

CIVILIAN

Connecticut. Darien Rifle & Pistol Club-Stanley Baker, secretary; J. E. Williams, president; McDougal Hawks, vice-president; George M. V. Schlichting, treasurer; Martin J. Shaughnessy, executive officer. Membership, 23.

District of Columbia.

U. S. Department of Agriculture Rifle Club-A. G. Rice, secretary; Carl Vrooman, president; R. M. Reese, vice-president; S. A. Postle, treasurer; A. McC. Ashley, executive officer. Membership, 25.

Idaho.

Rockland Valley Rifle Club.-T. J. Lawson, secretary; Frank Cook, president; P. O. Sheer, vice-president; T. J. Lawson, treasurer; R. I. Ewing, executive officer. Membership, 27.

Indiana.

Goldsmith Rifle Club-F. E. Watson, secretary; Everett L. Bunch, president; S. M. Cotton, vice-president; W. C. Hinkle, treasurer; S. A. Porter, executive officer. Membership, 35.

Kansas.

Fort Scott Y. M. C. A. Rifle Club-A. B. Adams, secretary; J. Ralph Ingham, president; Claude Brant, vice-president; A. B. Adams, treasurer; R. F. Edwards, executive officer. Membership, 15.

Michigan.

Ann Arbor Grotto Rifle Club-D. C. Mc-Lachlan, secretary; Chas. M. Oldrin, president; Roland Schlittler, vice-president; Erwin C. Brann, treasurer; C. L. Petrie, executive officer. Membership, 19.

Missouri.

Atlas Rifle Club of Joplin-R. T. Butler, secretary; Freeman Bull, president; LeRoy Clayton, vice-president; R. C. Robinson, treasurer; Fred L. Owens, executive officer. Membership, 42.

New Jersey.

Cranford Rifle Club-Robert E. Crane, secretary; Robert S. Marshall, president; George C. Moon, vice-president; George M. Hendricks, treasurer; A. V. V. Hibson, executive officer. Membership, 147.

Long Hill Rifle Club of Passaic Township-Theodore W. Bebout, secretary; Gilbert M. Cornish, president; August Arata, vice-president; Charles Kutcher, treasurer; Raymond A. Alland, executive officer. Membership, 12.

West Orange Rifle Club-Gordon Grand, secretary; Farnham Yardley, president; Everett Colby, vice-president; H. S. Haskins, treasurer; H. Lloyd Folsom, executive officer. Membership, 47.

New York.

Jackson Heights Rifle Club-P. L. Anderson, secretary; E. C. Alsop, president; W. H. Blandford, vice-president; F. G. Randall, treasurer; W. C. Betsch, executive officer. Membership, 62.

Seventeen Ninety Rifle Club-William L. Sayers, secretary; George W. Burleigh, president; Louis Hays Dos Passos, vicepresident; Howard T. Kingsbury, treasurer; Paul G. Thebaud, executive officer. Membership, 311.

Thiells Rifle Club-Harry C. Storrs, secretary; Louis E. Bonnand, president; Howard H. Hill, vice-president; T. William Raymond, treasurer; Arthur Jones, executive officer. Membership, 40.

White Plains Rifle Club-William E.

Tolyansen, secretary; George Drury, president, Edward Tolyansen, vice-president; Fred Drury, treasury; Elbert Friese, executive officer. Membership, 16.

North Dakota.

Dunn Center Rifle Club-A. C. Diehl, secretary; C. J. Doherty, president; C. A. Barton, vice-president; Grover E. Tollefson, treasurer; E. W. Boyd, executive officer. Membership, 23.

Dunseith rifle Club-J. Dwight Hargreaves, secretary; Hokan Christianson, president; A. J. Horsman, vice-president; C. E. Webster, treasurer; D. Lemieux, executive officer. Membership, 35.

Souris Rifle Club-H. W. Bervig, secretary; J. C. Jirikowic, president; G. W. Kirkeby, treasurer; C. A. Kirkeby, executive

officer. Membership, 22.

Texas.

Brownsville Rifle Club-H. L. Thomas, secretary; T. A. Kinder, president; H. B. Moler, vice-president; Oscar C. Dancy, treasurer; Joseph K. Wells, executive officer. Membership, 28.

Capitol City Rifle Club-Ben F. Wright, Jr., secretary; A. W. Struve, president; A. W. Heath, vice-president; David Harrell, treasurer; Read Granberry, executive officer. Membership, 20.

San Antonio Big Dandy Rifle Club-G. V. Richter, secretary; L. Irvin, president; D. Cappelletti, vice-president; V. P. Salling, treasurer; A. Wurzbach, executive officer. Membership, 25.

Wisconsin.

La Grange National Rifle Club-Harvey W. Saunders, secretary; J. L. Duffin, president; Parker Dow, vice-president; John Renner, treasurer; F. C. Taylor, executive officer. Membership, 25.

STATE ASSOCIATION

New Hampshire State Rifle Association-N. H. Roberts, secretary; George C. Wilkins, president; Jas. W. Laughton, vicepresident; Roy E. Marston, treasurer; C. H. Carleton, executive officer.

COLLEGE CLUBS

Massachusetts.

Northeastern College Rifle Club-N. G. Thomas, secretary; Elisha S. Hudson, president; A. C. Watson, treasurer; Marcus F. Pinkham, captain. Membership, 50.

North Carolina.

Davidson College Rifle Club-B. D. Roddev. secretary; A. C. Woods, president; L. M. Currie, treasurer; H. B. Fraser, captain. Membership, 50.

HIGH SCHOOL CLUBS

California.

Gridley High School Rifle Club-Cecil J. R. Buckler, secretary; Walter Harkey, president; Wade Rowse, treasurer; Dewey Serene, captain; G. T. Kern, N. R. A., judge. Membership, 10.

Wyoming.

Cheyenne High School Cadet Rifle Club -Ira Trotter, secretary; Frank Mullen, president; William Woolston, treasurer; Wilmer Stevens, captain. E. A. Walker, N. R. A. judge. Membership, 37.

BOYS' CLUB

New York.

Elton Boys' Brigade Rifle Club-Arthur Lamm, secretary; John Haggerty, Jr., president; James Patterson, treasurer; Arthur Keller, captain; G. H. Lamm, N. R. A. judge. Membership, 25.

LIFE MEMBERS

George H. Johnson, Los Angeles, Cal. R. G. Rodman, Cherokee, Iowa. D. B. Wesson, Springfield, Mass. George R. Doty, Rochester, Minn. A. E. Borie, New York City. Edw. C. Delafield, New York City. Lt. Col. John Ross Delafield, New York City.

Gordon Grande, New York City. James A. McAleenan, New York City. C. Ronald S. Peak, West Philadelphia, Pa.

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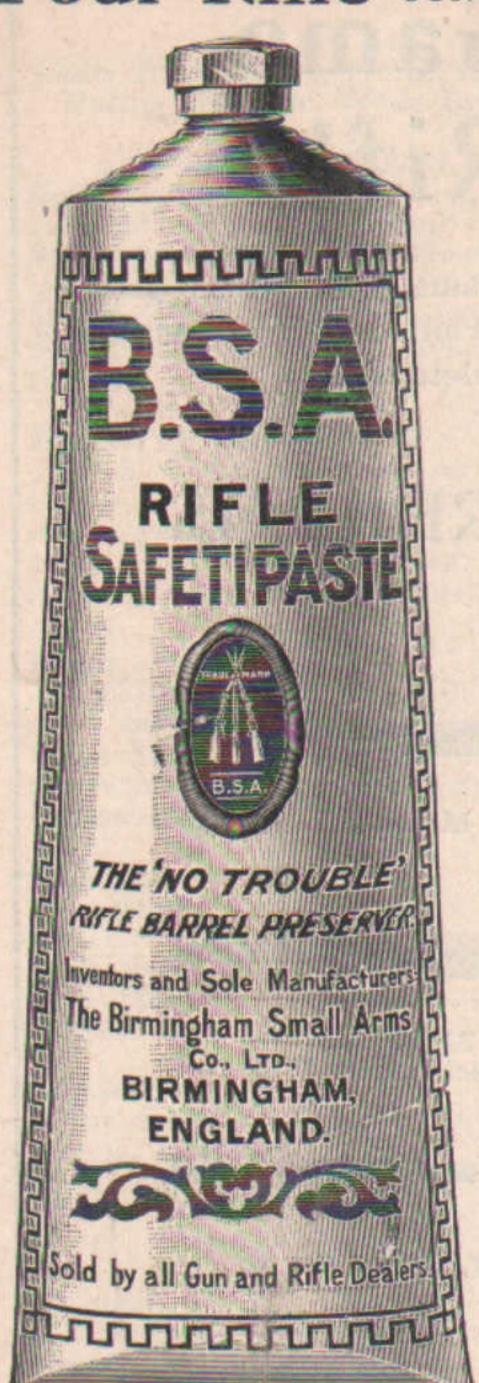
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