SOLDIERS CAME WITHIN ACE OF **GETTING VILLA**

Bandit Was Isolated When Order for Movement to North Was Given.

MOST OF RAIDERS ARE DEAD

Of the 485 Men Who Invaded Columbus 400 Are Dead, Wounded or Captured - Record Marches Made by Troops-Story of Hard Luck.

Field Hendquarters, American Punitive Expedition in Mexico.-Regimental narratives of the cavalry regiup to date and submitted to headquar-American troopers came to accomplishing the full purpose of their expedition. They show that just after the Parral fight, on April 12, less than a month after the expedition had entered Mexico and immediately prior to the order to withdraw northward from the Parral district, the Amer- 500 miles. icans had run Villa, sorely wounded, to earth, and had cut off every avenue of his escape to the south into

When Maj. Frank Tompkins' hunriding squadron of the Eleventh cavrun by his quarry. General Pershing was at Satevo, directing operations. the Tenth cavalry; Col. H. T. Allen, with two picked troops of the Eleventh cavalry; Major Tompkins and Major Howze, four cavalry columns in of safety he was seeking in the Sierra Madres, ready to beat the brush for him. Wounded, virtually alone, he apparently had little chance to 'evade capture or death. Orders for withdrawal came, however, after Parral, and the Lighwater mark of the expedition passed.

From the beginning of the border trouble it was to the cavalry that fell the responsibility of dispersing the Columbus raiders. That this task was accomplished is evidenced by figures showing that of the 485 men who raided Columbus four hundred have been killed, wounded or captured. Full credit is given in the narratives for made part of the column that entered the co-operation of other branches of Mexico from Culberson's ranch, it was the service, notably in establishing divided on reaching Colonia Dublan. advanced bases and maintaining the The first squadron, sent south on the line of communication, but the fact remains that it was the cavalry that of men by injuries when their ramset new records for marches under terrific handicaps. It also fought the four engagements that had an imporat Guerrero, March 28; Tompkins at Parral, April 12; Dodd at Tomoche, April 21, and Howze at Ojos Azules, May 4. It was the victim, too, in the tragedy of April 21 at Carrigal.

Marches of the Troopers. Two of the five cavalry regiments now in Mexico, the Seventh and Tenth, crossed the line at Culberson's ranch early in the morning of March 16. Their dash to Colonia Dublan has been told and retold. The Thirteenth, which already had spent three and

WEAR "Y" ON STOCKINGS



Not to be outdone by the fair Misses of Harvard, Yale's fair rooters have lecided on a Y for their stockings. In this way Yale hopes to offset the effect | Rosenow's work here during the sumof the Harvard brand of rooting in the big game. When the big game opens

a half years on the border, crossed March 15 at Columbus, where it had been attacked March 9 by Villa. Two squadrons of the Fifth left Columbus on March 29 and were joined by the third squadron April 10 at the Mormon lakes, near Dublan. The first detachment of the Eleventh entered Mexico March 17 via Columbus.

The marches of the Fifth may be summarized as follows:-Namiquipa, April 16; San Geronimo, April 23; Lake Itascute, April 24; San Antonio, May 3, About the time of the Scott-Obregon conference the regiment was Obregon conference the regiment was given a district, with Satevo as headquarters, which it was ordered to search intensively for bandits. Each cavalry regiment was allotted a similar sector of southern Chihuahua. The beating of the brush for Villistas, however, was never fully done. The Fifth, on May 10, was made part of a provisional cavalry brigade to cover the withdrawal of the expedition northward at a time when 4,500 Carranzistas were reported to be within 30 miles of the Americans. Since Carrizal it has been encamped at El Valle.

The Seventh, after completing its dash to Colonia Dublan with General Pershing's column, proceeded post ments that participated in the search haste to San Miguel, where Villa was for Villa, which have just been brought | reported. Poor guides caused delay and the bandit escaped. It then startters, show in detail how near the ed toward Guerrero. That town was reached by forced marches 12 days out from the border, with a daily average of 321/2 miles. The longest day's march was on March 17, when 58 miles were covered. The route chart shows that the regiment and detachments on reconnoissances covered 5,-

Mention is made that during Colonel Dodd's historic ride his men many times had only parched corn to est. Nearly three hundred miles was made in a single file, the troopers leading dred men were attacked at Parral, their mounts, and a number of them Villa, disabled, had hidden at Santa leaving stained footprints on the rocky Cruz. Maj. R. L. Howze, with his hard- trail, for their shoes had worn out. Officers and men lent their own money alry, close on the bandit's trall, had to buy food and forage, but it was not until the end of April that clothing could be obtained. By that time the Col. W. C. Brown, with five troops of men were in a pitiable state. Two fights stand to the record of the Seventh-Guerrero and Tomanche.

The Thirteenth, which arrived at Coionia Dubian on March 17, furnished This will be when its costs, including all, were between Villa and the haven the two picked troops which Major Tompkins commanded in his dash after Villa and which were halted at sion of the industry. It will be wel-Guerrero. The Itinerary of the remainder of the regiment embraced Et Valle, Las Cruces, Namiquipa, San of the uncertainties of foreign im-Geronimo, Lake Itascate and El Rubio, portation. where it made its headquarters May 1 to seek bandits in the district to which It had been assigned. It was concentrated at San Antonio on May 10 and later went into permanent camp at Colonia Dublan.

Story of Hard Luck. The history of the Tenth cavalry is luck. Short two troops when it was Mexican northwestern, lost a number treated from that city. The regiment

The regiment on May 5 lost its commander when Colonel Brown, ill, left for home. / Brief mention only is made of the hardships the only negro cavniry in the expedition endured. It received no clothes until May 13. The horses began to suffer early in the campaign from lack of forage and on March 25 they were further disabled when their shoes began to wear out. The first supply of coffee, hard bread and bacon received since March 18 was furnished the men on April 20, During that time the command subsided almost entirely on beef killed on the range and corn ground in small hand mills. No details are given concerning the scouting expeditions in which Troop C, from Ojo Federico, and Troop K, from Dublan, were engaged when cut up at Carrizal.

was concentrated during the retire-

ment and camped at Colonia Dublan

on May 19.

FINDS BABY PARALYSIS GERM

Medical Achievement is Attributed to Dr. E. C. Rosenow of Mayo Foundation at Rochester, Minn.

New York.-Medical men showed keen interest when word reached this city that Dr. Edward C. Rosenow, head of the bacteriological department of the Mayo foundation at Rochester, Mnn., had finally succeeded in Isolating the germ which, judging from the invariable results of many experiments, is the cause of infantile paralysis.

One Important result of Doctor mer-he went back to Minnesota only a few days ngo-was the discovery the two rival teams will be represent- that invariably the germ which he has ed by fair rooters with hosiery adorned isolated was found in the tousils of with emblems. These new college children suffering from infantile stockings which originated at Harvard paralysis. Doctor Rosenow's experi-Arcaten to be taken up by girl root- ments here showed that children sufers of all the colleges. The effect of fering from pollomyelitis who were the girl rooters urging their team on not making a good recovery showed practical. Purification of the amto victory in the big game promises to striking improvement after the tonsils had been removed.

Dr. H. O. Porter Asserts United States Can Produce Enough From Coal.

Chemist Believes There Will Be No Dearth of Product in This Country in Case of War-Ammonia Production.

New York .-- Among the papers prepared by well-known chemists and read at the sessions of the American Chemical society during its annual meeting for 1916, held during the second annual chemical exposition at Grand Central palace, was one by Dr. Horace O. Porter, an industrial chemist of Pittsburgh, in which he predicted that nitrogen would be extracted from the atmosphere in this country. Doctor Porter, however, told of other sources from which nitrogen could be produced in the United States at the present time, more cheaply than from the atmosphere, in such large quantities that there would be no danger of a dearth of nitrogen here in the event of war, such as was threatened in Germany when her sources of outside supply were cut off in the present war.

"The fixation of nitrogen from the atmosphere for application in agriculture and the arts is an industrial development now thoroughly well established in several foreign countries,

In Better Shape Than Germany. "Whether in America, in the emergency of a great war and the shutting off of our foreign supply of nitrate, we should be obliged to meet the situation in the same way as Germany has done is very doubtful. Atmospheric nitrogen fixation will without question eventually be established in this country. capital charges, shall have become low enough to admit of profitable expancome as an additional and unlimited source of fixed nitrogen independent

"At present, however, owing to conditions affecting the cost of power in this country, fixed nitrogen can commercially be had more cheaply from coal. If the supply, therefore, is adequate from the latter source for an emergency of war, there is no need of government subsidy for atmospheric a record of hard marching and hard nitrogen fixation. As to prices of fixed nitrogen to the farmer in times of peace, the producers' prices of coal by-product nitrogen are on a par with those in foreign countries and with those of other forms of fertilizer nitrogen in this or other countries.

"The available supply of fixed nitrodrove Villa in head-long, panic-strick- shackle train was wrecked. The third gen from coal is adequate to this counen flight into Durango, five hundred squadron participated in the vain try's military needs in any reasonable miles from the American border, scat- march to San Miguel. It was joined contingency. By-product ammonia is tered his band to the four winds and March 24 by the first, and both reached being produced in rapidly increasing Namiquipa March 25. With the first quantities. The crux of America's sitsquadron at San Diego del Monte, the untion as compared to Germany's is second engaged in its first clash with that we are not called upon to reserve tant bearing on the campaign:-Dodd the enemy at Aguascalientes on April our entire by-product ammonia sup-1. Three of the 50 Villistas were ply for agriculture; ample food crops killed. On April 3 this squadron for domestic consumption in time of reached San Antonio, and on April 6 war are assured us without the use of it was at Cusi. Ordered on April 10 fertilizer, while Germany, on the othtoward Parral as a flanking force, it er hand, is absolutely dependent on arrived at a point 20 miles from that such use, especially of nitrogenous fercity just in time to re-enforce Major tilizer, and has had even to increase Tompkins' squadron, which had re- her use of ammonium sulphate in this way since the beginning of the war.

Government Plant Insufficient. "The by-product coking and coal gar industries of the United States have today a capacity of making 70,000 tons of ammonia per year. Within eighteen months they will increase this capacity to 110,000 tons. From 35 per cent to 40 per cent of this capacity is for ammonia in the form of liquor, and, with slight adjustment of those plants making sulphate, this capacity for liquor can be increased to 55 per cent or more, that is, to 60,000 tons of ammonia. The recent appropriation by congress of \$20,000,000 for a government nitrate plant will, if devoted to a water-power-cyanamide process installation, yield not over 20,000 tons of ammonia per year, and the probable needs of the government in the event of war have been estimated at 180,-000 tons of nitrie acid, corresponding to about 60,000 tons of ammonia.

"Germany makes all of her coke by the by-product process and therefore is upable to increase her ammonia output from coke ovens without increase in coke production; America, however, by turning still more from beehive to by-product coking, can more than double her ammonia production without an increase of coke. Furthermore, the production and use of coke in America have every prospect of material increase, giving still larger ammonia production.

"The nitrogen reserves in the minable coal of the United States (not including peat) amount to 30,000,000,-000 tons. The amount recoverable by present industrial methods of carbonization in ovens or gasifying in byproduct producers is at least 6,000,000 tons. From the bituminous coal mined in the United States in 1933, 1,000,000 tons of nitrogen were thus recoverable, if all such coal had been coked or gasified.

"The apparatus and processes for recovery of fixed nitrogen from coal are not complicated, expensive, or immonia to any degree is practicable and not costly."

War Department Considers a Novel Steel Helmet

Washington.—The latest "engine" of military defense has been born in Washington. It is a combination steel helmet and trench digger, designed by Leonard D. Mahan, formerly in the United States army, new a member of the local police department

detailed at headquarters, Mahan's invention may result in the introduction of the steel helmet in Uncle Sam's army, for he has submitted his design to the war department, and it is now in the hands of

the ordnance division. The United States government has always barred the permanent steel helmet, which has been adopted as a part of the equipment of the European soldier, from the American army because of a belief that a permanent helmet was an unnecessary burden on

the soldier. Mahan hopes that his helmet will be adopted, however, for, he points

out, it is not a permanent headgear and need only be worn while the men are under actual fire. The new helmet would not do away with the present campaign hat. It

made of crucible steel and resembles the grocer's sugar scoop. When marching, the helmet could be carried as a part of the equipment, and while in camp it could be used handily as a digger, bailer, or even as a mess kit, Mahan believes.

Although Mahan does not assert that his helmet ever would do away with regular trench-digging tools, he points out that in battle his belinet would protect the head and neck, and still not do away with the campaign

Uncle Sam's Census Office Really Does Much Work

THE bureau of the census is now completing the manufactures census for 1914. This sounds as though the figures might be ancient, but how about the time when this census was made public five years after the work was

undertaken, and then we thought we were lucky? As a matter of fact, very few of us realize the tremendous amount of work that is turned out by Uncle Sam's census office. In addition to the manufactures census and the general population census, many other censuses are undertaken at stated intervals, such as the tobacco census, now taken four times a year.

The work of this division of the federal government, now the greatest statistical office in the world, repre-

sents the outgrowth and development of a century and a quarter of periodical, and, in recent years, continuous, statistical inquiry. While various labor-saving machines have been installed by the govern-

ment from time to time, there is, perhaps, no bureau of the entire fabric of federal work that has benefited more by the use of modern machinery. In fact, the census office is doing today with the use of machines what would be absolutely impossible if hand labor had to be employed. From time to time various reforms and improvements have been inaugurated in this office, and at present the current work on all lines is practically up to date-a condition which has not until recently existed during the bureau's history. According to officials of the bureau, the first use of mechanical appliances

in the compilation of census data was made during the closing months of the work on the census of 1870, when a simple tallying machine was employed with good results.

At the census of 1890 there was introduced a card system of tabulation, which, with modifications and improvements, is still employed. These cards are punched by what is known as a verification machine, which is almost human in its work, throwing out all cards with errors. Following this, the cards are put through an automatic sorting machine which takes care of some 300 cards a minute; following which the card is placed in still another machine, which counts them at the rate of 500 a minute, purely automatically, and finally they are put into still a fourth machine, which records each item of information indicated on the card.

Great Variety of Domes in the National Capital

W ASHINGTON possesses an unusual number of domed buildings. The student or lover of architecture finds here not only a great many, but a great variety of domes. It is extraordinary that examples of all the domes

of the favorite schools of architecture are grouped within the limits of this

Needless to say, the capitol dome is Washington's dome par excellence. Its size alone gives it pre-eminence, and its beauty ranks it among the great domes of the world. The framework of this dome is of iron and it weighs nearly 9,000,000 pounds. The keynote of its impressiveness

is its massiveness; its curving sides, encircling rows of columns, vari-

shaped windows and graceful segmental ornamentations will always be only adjuncts to its impressive feature—its size. In height the capitol dome reaches 287 feet into the air; its greatest diameter is 135 feet.

Washington's most beautiful dome surmounts the Library of Congress. This has a diameter of 100 feet, making it almost as large as that of the capitol; but, offhand, one would certainly say that it is a much smaller dome. This is due to its shape. The library dome is an Italian renaissance type and is a flattened spherical vault. It is built of stucco applied to a framework of iron and steel, filled in with terra cotta. The domed roof is sheathed with copper, and over this is laid the coating of gold leaf, 23 karats fine.

As far as ornamentation goes, this dome is the most exquisite in the United States. The interior walls are superbly painted and adorned with arabesques.

The National museum possesses a dome neither huge nor extremely ornate; yet it is one of the most pleasing domes to the architectural eye that is found in the city. It recalls the dome of the Pantheon at Rome; in the matter of contour they are quite similar.

These are Washington's thre? official domes. In addition to them are several church domes of large immensions and varying ornateness. The Jewish synagogues of the city give a Byzantine touch to the capital's architectural horizon. The synagogue at the corner of Sixth and I streets has the true Arabian dome.

Washington Discovers It Has an Official Motto

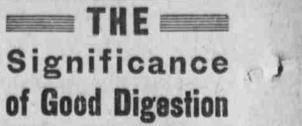
USTITIA Omnibus." Discovered; the motto of the city of Washington, D. J. Donovan, secretary to the board of commissioners, recently received from Edwin F. Manchester a letter inquiring whether it was true that Washington is the only city in the United States without a motto.

Secretary Donovan frankly admitted that he didn't know. Neither ld several other officials,

But not so Dr. William Tindall assistant secretary. Doctor Tindall has written a his-

tory of Washington dating back to the time when the town pump was located at Fourteenth street and Pennsylvania avenue, so he ought to know,

"Justitia Omnibus" (Justice for all), is Washington's motto. The legislative assembly on August 31, 1871, passed an act prescribing a design for the seal of the District of Columbia. The legendary inscription on the seal is "Justitia Omnibus." This, Doctor Tindall says, is obviously the motto of the city of Washington and the District, though Washington is only a geographical designation of a portion of the District, and has been so since February 21, 1871.



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For any digestive weakness, liver and bowel trouble or malaria, fever and ague

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OSTETTER'S Stomach Bitters

Cold Reception.

"From the days of my childhood," said Sir Knight Stanze, "I was ambitious to trend the boards, and when I finally butted in among the stage scenery, I felt that I was really due." "Well, how about it?" queried the great tragedian, Count DeTies.

"Alas, I was mistaken," continued the near actor. "Before I had played one consecutive night I discovered that instead of being due I was a

A GRATEFUL OLD LADY.

Mrs. A. G. Clemens, West Alexander, Pa., writes: I have used Dodd's Kidney Pills, also Diamond Dinner Pills. Before using them I had suf-



fered for a number of years with backache, also tender spots on spine, and had at times black floating specks before my eyes. I also had lumbage and heart trouble. Since using this medicine I have been

relieved of my suffering. It is agreeable to me for you to publish this letter. I am glad to have an opportunity to say to all who are suffering as I have done that I obtained relief by using Dodd's Kidney Pills and Diamond Dinner Pills.

Dodd's Kidney Pills 50c per box at your dealer or Dodd's Medicine Co., Buffalo, N. Y. Dodd's Dyspepsia Tablets for Indigestion have been proved. 50c per box .-- Adv.

FULL OF SPIRIT OF REVOLT

Deep Feeling Against Injustice Was a Factor in the Career of Bobbie Burns.

Revolt was temperamental and chronic in Burns. Sometimes this revolt was followed by a reaction of feeling; then the baffled rebel could only fall back upon resignation, upon a alism that soured the heart and turned mirth to melancholy, upon a pessimism that closed all doors of hope for the poor with "added proofs that man was made to mourn,' and 'death the poor man's dearest friend, the kindest and the best;" but this revolt was a constant factor in Burns' career.

It made him the flery democrat, the Whig partisan: it got him into trouble by tempting him to approve in public of the earliest outbursts of the French

revolution.

And yet revolt was restrained in him by profound insight of the law of compensation. He perceived that honest poverty, clean, well mannered, blessed with reverence, was never the fit object of pity, for the poor, on the average, were more happy than the

Motor cars fitted with X-ray apparatus are used extensively by the French Red Cross society.

Douglasville, N. J., has a dwelling occupied continuously for 200 years.

When The Doctor Says "Quit"

-many tea or coffee drinkers find themselves in the grip of a "habit" and think they can't. But they caneasily-by changing to the delicious, pure food-drink,

This fine cereal beverage contains true nourishment, but no caffeine, as do tea and coffee.

Postum makes for comfort, health, and efficiency.

"There's a Reason"