How Canada Acquires Her Buffaloes

THE extraordinary difficulties encountered in rounding up left within reach. the last great herd of buffaloes is told by C. A. Carter

in Munsey's magazine. By virtue of the shrewd public spirit of the Canadian bison, the last wild survivors of the species, is now the prophave kept these magnificent animals on American soil, where load each buffalo. sentiment demanded that they should remain. But they are

from their native pastures.

and which is not likely to be repeated. I must begin at the beginning of the story. In 1884, Michel ed the first round-up. Pablo, of Missoula, Montana, and a neighbor, C. A. Allard, bought 13 young buffalo from a Pend d'Oreille Indian, the progeny of four calves which the Indian had captured a few years before. Nine years later, Pablo and Allard added to their growing herd 26 head purchased from Buffalo Jones.

Upon Allard's death, soon after, Pablo became sole owner. The buffalo were allowed to run wild in the Bitter Root mountains, on the Flathead Indian reservation in Montana. Pablo's only care was to protect them from hunters' and to prevent them from straying. He sold a few head occasionally, but looked to the future for a profit on his investment.

In 1906, it was announced that the Flathead reservation was to be thrown open to settlement. As this meant that he was to be deprived of his range, Pablo realized that he must dispose of his buffalo. He hurried to Washington with a proposal to sell the entire herd to the government. President Roosevelt approved the idea; but congress declined to make the necessary appropriation, and that was the end of the

Hearing of this turn of affairs, Alexander Ayotte, Canadian commissioner of immigration, suggested to Howard Douglas, commissioner of Dominion parks, that here was a chance to obtain some highly desirable stock for Canada's national parks. The matter was laid before the minister of the interior, Frank Oliver; parliament promptly granted money for the purchase, and Douglas was instructed to take the first train for Montana and buy the buffalo. A contract was closed for the entire herd at \$200 a head, and Douglas paid \$10,000 down to bind the bargain. Pablo thought he had 300 of the animals, but as he wasn't sure about it, he would only sign a contract to deliver 250 head or the entire

herd, whatever the number might be. One day early in May, 1907, Commissioner Douglas appeared at Missoula to claim his herd of buffalo. He was attended by a retinue of enthusiastic Canadian newspaper correspondents and other loyal subjects of King Edward, who had invited themselves up to see the fun. These volunteer spectators imagined that all there was to do was to go and get the buffalo. Literally speaking, this was true; but if they had dreamed how much was involved in the getting, they would have prepared for a longer stay than any of them

The first round-up was the easiest of the series of five great hunts, though this does not imply that it was a simple task. Pablo, who knew the country and thought he knew the

buffalo, managed it, with the aid of 20 cowboys. It did not take long to disclose the fact that the herd was very much larger than its owner had supposed. By two weeks of hard riding from dawn to dark, Pablo and his cowboys managed to get 200 buffalo into a corral at Ravalli, Montana. The corral was enclosed by a fence nine feet high, made of two-inch planks spiked to posts set eight feet apart. It was a good fence (but the buffalo did not treat it with much respect. One old bull, who chanced to take exception to the conduct of a cowboy on the other side of it, charged through the fence as if it had not been there. Another, to show his contempt for such a flimsy affair, inserted his horns under a plank, and, ripping it off with a single toss of his head, threw it over his back a dozen feet to the rear. Still another made a swipe at a panel of fence, and cut such an extraordinary gash with one horn that Commissioner Douglas measured it at the first opportunity. It was an inch and three-quarters deep and three feet eight inches long.

Clearly, such animals as these could not be shipped loose in an ordinary stock car; so it was arranged to drop a rope around the neck of each buffalo as it passed up the loading chute, and to lash the animal securely to the car as soon as it could be got inside. Arrangements being completed the loading began. All the Canadians, the entire population of Ravalli and all the railroad men who happened to be in town at the time, gathered to see the performance.

After nearly an hour of hard work by the full force of cowboys, a bull was finally headed up the chute. At the right instant, a man dropped a noose over the animal's neck. At the touch of the rope the bull made a spring which landed him in the car; but, quick as a flash, on finding himself in a trap, he whirled about and came out again.

There was the usual stock-yards arrangement of two heavy gates about eight feet long, made of two-inch planks bolted together, which were swung out on either side to make a passage from the corral across the loading platform to the car.

As he came out, the bull caught the left-hand gate on his horns, tore it from its hinges and started diagonally across the platform to jump back among his fellows in the corral, instead of going down the chute.

Commissioner Douglas, Commissioner Ayotte and Mr. Mc Mullen, the livestock agent of the Canadian Pacific Railway, had chosen a position on the top of the fence beside that par-

The three men hit the ground in a heap, right among the ently impossible for any four-footed creature to climb. buffalo, while the bull, still carrying the gate on his horns, All three were firmly convinced that the yelling alone saved ground and their tops lashed together with wire.

peered through the cracks.

Thirty minutes of strenuous endeavor induced another bull that could be counted on to hold his buffalo. to venture into the chute. Like the first, the instant the felt the rope touch his neck he sprang forward as if shot out of a gun. The cowboys had learned wisdom now, so a turn had corral. Two-thirds of them broke away and escaped before been taken around a post and a dozen men held the loose end they could be cooped up between the wing fences. The rest determined to keep the bull inside the car if they ever got headed down the coulee, swam the river and entered the enhim there. Before they could take up the slack, however, the bull made a leap at the farther side of the car, went through it as if it were made of paper, and hung there with half his body outside. But for the rope, he would have gone clear through the course. Pablo and his weary men slept the sleep of triumph that night.

When he saw the bull coming straight at him, Mr. Ayotte altogether. He received enough of the force of the concussion made a trail diagonally up its face, cutting down the clay to make him stagger. The bull had struck the car with such with their forefeet a little at a time, taking many a tumble the spectators on the roof were thrown down and some fell a 12 per cent grade to the top as any engineer could have off the car. One, a half-breed Indian, landed fairly on built.

a rope passed around his neck and secured to uprights on of picked men. each side. But the other end of the bull was still free, and For three days the gang rode the range, cautiously driv-

As soon as it could be done, the bull was taken out of the car into which he had been forced with so much labor. Ulti- 60-mile drive toward Ravalli. According to a carefully ar-

One magnificent bull, the monarch of the herd, 25 years tana, where they were bred, to uttermost Alberta, it was genuity of the cowboys could suggest was tried. His heels were not even winded, escaped.

It was then found that about three hundred buffalo still work brought in 20 head.

with such violence that he broke his neck and fell dead. horseman and one of the best cowboys in the west, offered to It took an hour and thirty minutes to get the first buffalo 'sweep the range' for a matter of \$2,000. A bargain was -a fine young bull-housed in a car and safely anchored with made on that basis, and on May 9, he started out with a band

he proceeded to get it into action without delay. There was a ing small bunches of buffalo together, taking special pains dark brown flash as a heavy heel swung back, and a crash not to stampede them. As they were driven in the opposite as a plank was ripped off the side of the car. Crack, crack, direction to that which they had taken in previous round-ups crack, went those heels, like the reports from a machine gun the buffalo went readily enough. At the end of three days, a sending a shower of splinters on each side until nothing was herd of 340 had been assembled within an area of five square

up, and the men were remounted with but little delay. gone now, and the only consolation left to those patriotic old, was resolved not to go to Canada. He was finally driven bolted and escaped so that by nightfall only 103 were driven plans adopted as a specimen and working model. citizens who mourn their loss is that the Canadians had to into a corral 20 miles from Ravalli. All the horses were used earn their buffalo before they got them.

This new map of the world will be what is known as a hypsometric map, and the contour lines will be drawn in hypsometric map, and the men were equally exhausted, so there was no hypsometric map, and the men were equally exhausted, so there was no hypsometric map, and the men were equally exhausted, so there was no hypsometric map, and the men were equally exhausted.

livened by quite as many spectacular incidents as had mark- out a parallel in the history of the range. Yet many a day the graphs, post-offices, boundaries (both international and progang returned without a hoof. The most successful day's vincial), and towns both great and small.

MR. GOLDWIN SMITH

ticular gate as a sort of stage-box from which to see every- remained on the range. Elaborate plans were laid to finish | Loading into the wagons was quite as difficult as loading thing that happened. They were almost touching the gate shipping these in the autumn of 1908. Pablo himself selecting into cars, but the men now had the advantage of experience. time to climb out of the charging animal's way. They could river at this point was 525 feet wide and 19 feet deep. En- make a dash for the farther end, and men stationed on the not do anything but just let themselves drop into the corral, circling the bend on the opposite side of the stream was a last wagon would drop a gate behind it. The animal was then erpendicular bank, no where less than 50 feet high, appar- securely tied.

Opposite the corral was a coulee which led down the slope from the buffalo range to the river. Wing fences were built along the spectators once more took their places and the attempt at loading was renewed. No one wanted a seat on the fence this time, but the car-roof was well filled. Commissioner Avotte a dignified Corral was a coulee which led down the slope from the buffalo range to the river. Wing fences were built along the sides of the coulee for 12 miles on one side and the sides of the coulee for 12 miles on one side and the sides of the coulee for 12 miles on one side and the sides of the coulee for 12 miles on one side and charged. John was so near that he could not get out of the way. Seeing this, Joe tried to draw his revolver to shoot giggle every time they see him the bull but fumbled and lest his above. missioner Ayotte, a dignified Canadian Frenchman, stationed which booms of logs were stretched, so that the buffalo could horns in the side of John's horse and, lifting it clear of the himself on the opposite side of the car from the corral, and not swim around the corral and escape. All this required an immense amount of labor but Pablo wanted to have a pen before throwing them to the ground. Fortunately for Decker,

> After six weeks of hard work, the entire bunch of more escape, while the bull stopped to gore the dead animal. of triumph that night.

Next morning there was not a buffalo in the corral. All of THE AGE OF NIAGARA started to step back, but he was not quick enough to escape them had swum the river to the perpendicular clay bank and

Ayotte's head as the half-stunned commissioner tottered backward.

It was too late in the season to make any further attempts thousand years. Lyell increased the estimate again to thirty-backward see the dead body of the spider. He was, however, rejoiced The damaged car was removed, another was put in its with nothing but a herd of worn-out, broken-down horses to it to about hime thousand years. The damaged car was removed, another was put in its with hothing but a field of work-day, broken down hotses to the damaged car was removed, another was put in its with hothing but a field of work-day, broken down hotses to the help the place, and the task was resumed. The next bull that went up show for their six weeks' toil. In the following spring, how the car striking against its side ever. Charles Allard, a son of Pablo's old partner, a splendid of the falls was four hundred and twenty feet. the chute charged through the car, striking against its side ever, Charles Allard, a son of Pablo's old partner, a splendid of the falls was four hundred and twenty feet.

when the bull ripped it loose and prepared to spring toward ed a horse-shoe bend in the Pend d'Oreille river in which to The eight wagons were placed end to end, and opened up into them, with the timbers hanging on his horns. There was no corral the buffalo, where escape would be impossible. The a single long passage. Once a buffalo was started, it would anemic nor soothe the neurasthenic.

The process, however, was rarely so simple as this. More By building a fence across the neck of the bend, a corral often the buffalo had to be dragged into the wagons by main leaped over them. All were stunned momentarily by the fall, of several acres was made. The fence was to be buffalo- strength. Twenty or 25 men would heave on the rope around and McMullen broke an arm. The men spectators yelled, the proof. It was built of logs eight inches in diameter at the the animal's neck, while others would dangle tin cans or bags may choose to regard his idle favor as an offer of marriage women screamed and the uproar so disconcerted the buffalo small end, laid one above another, making a solid wall nine behind it, to tease it into kicking, and so throw it off its balwomen screamed and the uproar so disconcerted the buffalo small end, laid one above another, making a solid wall like before the buffalo or brothers, detecting him with his arm around her neck and and pulled all together, they might gain half a vard or so beof goring their helpless enemies, who were quickly rescued. posts six feet apart, with their ends set four feet in the and pulled all together, they might gain half a yard or so before the buffalo could get its feet down again.

ground, carried both steed and rider 100 yards at full run A SPIDER'S ODD ADVENTURES he fell clear of the horse, and near enough to the fence, to

130 buffalo still at large. The casualties were five horses gored to death and twenty-

So the question: "How old are the Niagara Falls?" geo- packed articles to be sent home, and among them the helmet logists, have returned replies varying by tens of thou- that had seen action. Inside that helmet was the spider. terrific violence that he nearly knocked if off the tracks. All into the water in the process, until at last they had as neat Niagara River came into existence, through changes in the his little friend on a long voyage without stocking its larder, level of the land around the Great Lakes, about fifty-five but nothing could now be done to help it. thousand years ago. Later this was reduced to only twelve

New Map of the World

N. a proposition made several years ago by Albrech Penck. professor of geography in the University of Berlin, and car into which he had been forced with so much labor. Ulti-mately he was secured in another car, with two-inch planks ranged scheme, the cowboys closed in on all sides at a cergovernment, and through the United States government's lashed inside, so that he could not get room to swing his heels. tain hour to start the turning movement toward a big draw recently discussed at an international conference held in Lonfailure to seize a proffered opportunity, a splendid herd of 730 In this way every buffalo had to be secured. Eight big bulls leading down the mountainside of the Pend d'Oreille river. don, at which all the great European nations, the United or ten cows with calves were all that could be put into a car, It was fearful riding over extremely rough country. Horse States, Canada, Egypt, India, and Japan were represented, erty of the Dominion. The United States government might and it required from half an hour to an hour and a half to after horse dropped exhausted, but the remuda was kept close and the plans were brought to a point where it is only necessary to take practical steps to put them into effect. Great One at a time by twos, threes and half-dozens, the buffalo Britain has undertaken to construct a sample sheet on the

This new map of the world will be what is known as a In order to move the monarchs of the prairie from Mon- the rope to drag him into the car. Every trick that the inchoice but to rest; and during the night, the buffalo, which brown at intervals of 100 metres or in decimal multiples or submultiples of that measure. The interval of 100 metres necessary to ship them by rail. Before they could be shipped they had to be rounded up, of course, and corralled. Yet idea that he would kick and be thrown off his balance, so that the railroad was now abandoned. Instead, it was planned to the rounding up' and 'corral' are not precisely the words to use in this connection, for they are associated with the driving of dewestic cattle, where spirit has been broken by ages.

Submittiples of that measure. The interval were not even winded, escaped.

Hope of driving these 'outlaws,' as they were called, to will be used up to a certain altitude, beyond which the interval idea that he would kick and be thrown off his balance, so that the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned to he might be jerked a few inches; but he scorned such peurile drive them in small parties into a corral 36 miles from Railroad was now abandoned. Instead, it was planned to the railroad was now abandoned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now abandoned. Instead, it was planned to the railroad was now aban ing of domestic cattle, whose spirit has been broken by ages of submission to man's dominion. Besides, they fail to convey any conception of the two years of desperate endeavor left him lying there overnight, in the hope that he might horses and 18 men, the best cowboys in Montana. After two altitudes, and then in different shades of brown, increasing by the flower of Montana's cowboys, and of the heroic resistance offered by those true Americans, the buffalo. It was sistance offered by those true Americans, the buffalo. It was dead. As there were no signs of physical injury to be found, procured. Every day, Sundays included, the heartbreaking of the heartbreaking in darkness according to depth. All other waters more like a war of extermination, in which many a brave the cowboys unanimously agreed that the indignities to which task proceeded, the men often starting out at 4 o'clock in will likewise be in blue, special symbols being used to indison died fighting with his last breath and in which the survivors suffered what to them was worse than death—removal and broken the old monarch's heart.

the morning and not getting back to camp until night. Every cate rivers perennial, non-perennial, and unsurveyed, the day men were thrown, bruised and battered. Pablo's favorfirst shipment of 199 head started for Canada. A second ite horse broke a leg; another wrenched its back so that it fresh marshes, swamps, and mountains. There will also be To whatever it may be likened, this last great series of shipment of 204 head was made in September of the same had to be killed, and still others were done for in various special characters to indicate main and secondary roads; for buffalo-hunts was an event which has no parallel in history, year, at an expenditure of six weeks' toil and trouble, en ways. For continuous, grilling work, it was a round-up with railways, built, projected, and in course of construction; tele-

> The sheet for each country will be entirely independent, and the projection adopted will permit every sheet to fit exactly together with each of the four sheets adjoining its four sides. These conditions are made possible by adopting what is known as a modified polyconic projection; that is, by making it a plane instead of a spherical surface. Each sheet, therefore, will be indepenrent as far as it goes, and it will not be necessary for any one to have the entire map unless it is desired. All the sheets of the United States pasted together, not including Alaska, will make a map about eighteen

> feet east and west by about twelve feet north and south. There is no uniformity whatever in existing maps of the world, and the advantage of having a map of the entire world upon a uniform scale and a uniform base for geology, as well as topography, is a thing to be appreciated.

The expense of the map is to be paid by the respective governments, by geographical societies, and other official and unofficial organizations, and each government will adopt its own plan of distributing the results of its work to the public.

THE COLDEST CITY ON EARTH

THE coldest inhabited place in the world is unodubtedly Verkhoyansk, in northeastern Siberia, with a mean annual temperature of less than three degrees above zero, Fahrenheit, and a winter minimum of eighty-five below. Verkhoyansk is in north latitude sixty-seven degrees, on the great Arctic plain, scarcely more than one hundred and fifty feet above the level of the sea. Probably there would be no town there if it were not necessary to Russian governmental purposes to have an administrative centre for a region where many thrifty Yakuts, the fur-trading "Jews of

beria," carry on their operations. All its inhabitants, save a few officials and other Russians, are Yakuts. This does not prevent its being a place of some importance, for the Yakuts are the most progressive people in northern Siberia, excelling the Russians themselves in enterprise and adaptability to Siberian conditions of

The average temperature of the winter in Verkhoyansk is fifty-three degrees below zero, Fahrenheit. The rivers freeze to the bottom, and the small trees have been known to snap and split from the force of the frost.

Yet, with all this, Verkhoyansk is, it is claimed, not a disagreeable place of residence, and is preferred by the Russian officials to many more southern and warmer posts. Its atmosphere in winter is always clear, and for the little time that the sun is above the horizon its beams are unobstructed. The air is still, too; no blizzards or drifting snow-storms make life

a burden to the inhabitants. The Siberian dress completes the comfort of the citizens of this Arctic city. It consists of two suits of fur, an outer and an inner suit. The inner suit is worn fur side inward, the outer fur side outward. With his hood down, and just enough space left to see out of and to breathe through, the Verkhoyansker is vastly more comfortable in a temperature of eighty below than many an American, in his cloth overcoat, in a temperature of five above zero.

The winter, indeed, is more enjoyable than the summer, which is hotter than might be expected. The average temperature of July in Verkhoyansk is fifty-nine above zero, and very hot days are not uncommon. The earth becomes grant and vegetation thrives, though only the surface of the ground is thawed. At Yakutsk, which is farther south than Verkhoyansk, but not much warmer in winter, the mercury rises in July to one hundred degrees.

THE CHARM OF KISSING

O NCE more the warning goes out that kissing is dangerous. This time it is voiced by Miss Ellen M. la Motte, the ranking officer in Dr. Bosley's corps of fair and accomplished nurses. The contact of lip and lip, says Miss La Motte, acords an ideal opportunity for the voyaging of pathogenic organisms. Most of these germs, when they enter the body at all, do so by way of the mouth. Of such sort are the germs of diphtheria, turberculosis, meningitis, influenza, the simple cold and all the familiar juvenile plagues. Therefore, it is thoughtless and often cruel to kiss, and sometimes sui-

Thus speaks science, and its mandate should be observed as to babies and by invalids. But the great majority of folks will, no doubt, keep on kissing. We have often wondered at the enormous popularity of the exercise. Why do people kiss? The act itself is ridiculous as a spectacle and unsatisfying as an amusement. Its sole physical accompaniment is a feeling of suffocation, and on the psychic side it is frequently embarrassing, particularly if an unexpected audience reveals itself, say, by satiric whoops and catcalls. It has none of the charms and other pleasures, such as solfeggio, eating, and

But still it thrives, and no jeremiads on its perils will ever work its abolition. The man who makes a practice of kissing the fair sex is a man attracted rather than repelled by danger. He knows that every kiss he steals is full of fearful hazards. The girl herself may black his eye, stab him with a hatpin or call for the police; and then again she and accept him before he can escape. Yet again, her father as a relative, touching him for small loans, calling him by his

THERE was once a spider that went through at least two battles and took a long journey by sea and land, all without mishap. The first time this particular spider The round-up that began on May 9 ended on June 30, with came into notice was just before the fight at Atbara, in Upper Egypt. It had taken up its quarters in the ventilator of the helmet of a British officer. It was an energetic spider, five buffalo killed; but when the cowboys finally limped into coming out at night to feed, and, after having its supper of

manded a battery, and once more the spider went into action When the African troubles were over, the British officer logists have returned replies varying by tens of thou- that had seen action. Inside that helmet was the spider. sands of years. At first it was estimated that the Not until too late did the officer remember that he had sent

When the British officer reached London, it was with some to find his friend alive and vigorous, and not even lonely.

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