

horse, first over a so-called wagon road where the six-horse wagons were frequently bogged or upset, and then after even that semblance of a road had disappeared the 50 horses constituting our pack train were loaded with the camp outfit and supplies. Rivers and lakes were crossed at great risk on the rotten ice. Seventeen days out from Whitehorse the party crossed the last remaining ice bridge on the White river, and this was hardly accomplished ere the gorge broke through with a report like that of a hundred cannon and went swirling away in the swollen waters of that stream."

In running survey lines in that far-away region, Mr. Riggs says: "Rivers filled with dangerous quicksands have to be crossed, mountains scaled at the risk of life and limb, and then comes drudgery of crossing the bottomless swamps of the low lying lands. Horses mire down one after another and lie there with their heavy packs mutely gazing at the worn-out packer, who after exhausting every known means to get the poor beast to its feet gives vent to his harrowed feelings in ornate blasphemy."

The question of provisions is a vital one, because they go astray at times or a cache may be rifled by Indians or wild animals. The civil engineers and their parties are seldom able to live upon the land. They have to depend upon their regular supplies, and more than once a surveyor has been reduced to starvation rations and forced to make a hurried trip back to the nearest base.

Indeed, an instance of this sort occurred during the boundary survey, and two men were dispatched back in a canoe by way of an unexplored river. They went off with a little bread and a small allowance of bacon-hardly enough to last for two days. On they went, hoping to pick up the trail of a following relief party that had somehow been delayed. Fortunately, this was effected just before the canoe turned an abrupt bend in the river. Around that bend the stream dipped into a pocket which probably would have meant certain death.

True, in the lowlands of Alaska the summer is hot and the days long, but up in the mountains the arctic chill is felt, and the surveyors have to go provided with garments to meet these extremes, and above all must they have the sturdiest of boots in which to battle over that rugged country. The surveyor must check his lines oy suitable triangulations, and to do this it will be necessary for him frequently to stand or climb where peril surrounds him well nigh on every side. Indeed, he will have to hold on by his eyelids or be something akin to a human fly, and besides getting himself there he must

drag along his instruments. But the sun is not overkindly in Alaska, and there are heavy and well nigh continual rains. especially along the coast. The surveyor seizes upon every clear moment to take panoramic pictures from definite points, and from these, later in the shelter of his camp or the warmth of his winter office back in civilization, he works out the topography of his line and plans the way for the engineers. In lieu of this, he must toll along as best he can under the climatic handicaps, and by means of the flashing heliograph he sends his signals afar into the haze and talks with his dis-

tant fellows. There is besides the menace of disease This was instanced in the case of the boundary survey

when an epidemic of smallpox broke out among the Indians at Rampart House. "We gathered in all the Indians," said Mr. Riggs, "forced vaccination on them isolated the diseased and issued supplies to the whole tribe of about two hundred. Ninety-two of the natives developed the fever. It was an anxious time,

IN ALASKA

"We put all of the infected Indians on an island in the Porcupine and took away their boats so they could not get away. A daily inspection was made. I used to carry a sack of cheap candy to bribe the kids to be inspected After a while they thought it great fun. Returning from among the infected Indians we would get into an airtight tent, stick our heads out of an opening, while the whole interior was filled with the fumes of formaldehyde.'

During that expedition, sent out by the United States government under the auspices of the United States coast and geodetic survey, one of the best surveyors was stricken with pneumonia. The country was well nigh barren, and the only natural fuel, and that scanty, was in the form of scrub willows. The sick man was virtually bound up in his sleeping bag, and for three weeks was unable, by himself, to get out of his extemporized bed. According to Mr. Riggs, "We gave him everything we had in the way of medicine, and still he recovered."

Heroism and the tragic are apt to go hand in hand in thus survey work, and yet the public knows next to nothing about the dangers faced by its servants in that far-away region. Let us cite a single instance that occurred to one of Mr Riggs' details.

It seems a small party of his associates landed on an island in the Alaska river and had the misfortune to have their canoe swept away by a sudden rise of water. Binding a few sticks of driftwood together to form a makeshift raft one of the men managed to work his way through the ley torrent to the neighboring mainland. After three days of wandering over precipitous mountains and slippery glaciers he finally managed to crawl to one of the triangular stations or marks. He had just strength enough to push the signal out of plumb and then fainted away.

Happily the chief of the local party, some distance away, while pausing for the clouds to pass, by chance turned his telescope toward the deranged signal, and finding it out of line dispatched some of his people in a canoe to restore it. In this manner the exhausted man was discovered and a rescue party hastened away to the aid of his fellows on the island. For that heroism in the line of duty the man that breasted that frigid stream became a physical and mental

The government's railway will open up a very rich country. According to experts the wealth that has already been shipped out of the region is but the veriest scratchings from the surface of this vast treasure house of nature. But the road in its building will have to overcome many difficulties. The courage, grit and good red blood that has been drawn upon in running the survey are ample evidence of the character of the obstacles that must be battled with in laying the ties running the rails and springing bridges as the line advances.

Even so, we shall have the route in time, and the achievement will add one more record to the abounding capacity of our people.

> Samuel Pierrepont Langley to the so-Trip, Wanted to Be Put

> > ago to be put on probation.

AVERAGE ESTATE OF ENGLISH RICH BEATS AMERICAN

Shown by Scrutiny of Given Number of Wills Taken Consecutively as Filed.

SOME CURIOUS FACTS SEEN

One Comparison of English and American Estates Showed \$400,000 to \$233,000-Women Figure Large-Many Rich Prelates -Unusual Wills.

London.-A study of the wills of Englishmen and Americans has been made by an official at Somerset house, where is located the principal registry for Great Britain. This official, while in New York last year, examined the wills of several hundred wealthy and prominent persons who had resided in that city, and thereby was enabled to get information of value to the British income tax office, which has been bothered by men who give away their fortune before they die, thus avoiding the inheritance tax.

The provision in the American law is similar to that in the English law death" is subject to the tax. But this is difficult to prove, as was illustrated | ing. in the attempt made in New York to collect such a tax on a \$1,000,000 gift by the late D. O. Mills to his daughter. It was shown by the executors, by a letter written by Mr. Mills, that it was his "usual Christmas gift," though it did not come out at the hearing how many previous gifts of the kind had been made by him.

The inheritance tax is very heavy in Britain. In the case of the late my executors to see that my body is London banker, Charles J. Sofer. put in a catacomb and not buried." Whitburn, who left \$7,400,000, the state collected, in duties, \$1,185,000, notwithstanding that the property On some legacies the death tax is 25 dren, he left 2,500,000 francs to his herself and entertains her many per cent.

English Rich Men Richer.

The first point of interest developed by the inquiry is that the average rich Englishman is richer than the average rich American. This is shown by adding up the fortunes of any 100 consecutive British wills and comparing the total with that of any 100 consecutive American wills, excluding from each list the men worth \$1,100,-000 or over. The difference is almost 100 per cent in favor of the Englishman. Thirty English fortunes on the list totaled \$12,000,000, an average of \$400,000, while thirty New York fortunes totaled \$7,000,000, an average of \$233,000 each. The names on each list were taken just as they came, one \$167,000, most of which he left to his Mrs. Harrison was born in Kenafter another.

Nor is Britain wanting in men of vast individual fortune. There was the case of Charles Morrison, ninetyone, formerly a haberdasher, who left \$54,000,000. He was a comparatively unknown Londoner. Alfred Belt, the South African diamond merchant, left more than \$40,000,000; Sir E. P. Willis left \$13,000,000; Cecil Rhodes, another British South African, more than \$100,000,000. Sir Julius Wernher's estate was appraised at over \$25,000,000. He, too, made his money in the South African diamond fields, as did Henry Isaac Barnato, who left \$12,500,000. Sir J. H. Schroeder left over \$10,000,-

Average of Noblemen.

The estate of the late Lord Strathcona, high commissioner for Canada, was sworn provisionally at \$28,000,000 The duke of Sutherland left unset tled personal property, outside of his landed estates, exceeding \$1,100,000. The duke of Fife left over \$5,000,000. The duke of Westminster left more than that in unentailed property. The duke of Argyll left more than \$1,000,-000. The duke of Bedford and the duke

of Portland own London properties in

excess of \$20,000,000 each. It is estimated that \$500,000 would be a fair average value of an English nobleman's estate. The duke of Abercorn died possessed of \$1,900,000; Earl Spencer \$3,210,000, Lord Lister \$330. 000, Viscount Gage \$855,000 in unset tled property, Lord Furness, the steam ship man, \$5,000,000; Baron de Worms \$990,000, Lord Ashburnham's estate was appraised at \$1,250,000, Lord Hertford had \$495,000, the earl of Crawford left \$2,180,000, Lord Randel \$3, 260,000, Lord Ashbourne \$460,000, Sir Tatton Sykes \$1,446,000, Sir Richard Powell Cooper \$3,000,000, earl of Ancaster \$750,000.

Some Unusual Wills.

Miss Henrietta Hertz left \$435,000 for art galleries and schools and for research in the "problems, theories and history of the philosophers of western and eastern civilizations in ancient and modern times, and more especially in the nonutilitarian theories of the phenomena of life in relation to eternity."

A Spanish lady living in Paris, with property in Britain, said in her will: "As to my sisters, nieces, nephew, brother-in-law and cousin, nothing; nothing shall come to them from me but a bag of sand to rub themselves with; none deserves even a good-by." Miss Amanda Cooper left \$250,000

to King George.

Prince Henry of Prussia, brother of the kaiser, and the crown prince conversing during a visit of the former to the crown prince's headquarters in France.

CROWN PRINCE AND HIS UNCLE

\$255,000, directed that her maid, when dead, be buried alongside of her.

Among the relics bequeathed by George Somes of Bath were the cap and collar worn by King Charles I at in such cases. Money or other prop. his execution. They descended to erty given away "in contemplation of Somes from his ancestor, Bishop Hamflton, who was present at the behead-

> Archdeacon Thomas Colley directed that his skeleton be prepared for keep- Mrs. Alice Harrison, Just Turned 100, ing and preserved by his son.

Lady Meux left \$15,000 to Lord George Cholmondeley ("Chumley") on condition that he marries a lady in society."

Henry S. Sherry, a Watford lawyer, said in his will: "I have got a dread of being put under ground. I implore

Punch Artist a Croesus. Henry Silver, who from 1857 to 1870 was an artist on Punch, left nearly takes occasional strolls about the went to the son and other blood heirs. \$6,000,000. A widower, without chilwife's relatives in France, \$1,000,000 each to his two executors and \$1,000,-00 to a friend, A. G. Watson.

who died possessed of nearly \$10,000,-000, was the Andrew Carnegie of Scotland. He was a bachelor and left no fused to have her picture published. will, so none-of his money went to charity, but in his lifetime he sprinkled the Highlands with libraries.

Archibald Coates, a cousin of James Coates, left an estate of nearly \$7,000,-He made a will, but made no public bequests.

Many Rich Prelates. The estate of John Wordsworth, lord ing has been and is her chief annue bishop of Salisbury, was appraised at ment.

widow in trust for his children. terbury, \$175,000; Archbisop Magee of vulsing the world at the time of her. Howe, \$361,000; Bishop Tubnell, \$329,- puny. 000; Bishop Johnson of Colchester, \$273,000; Bishop Durnford of Chichester, \$188,000; Bishop Thorold of Win-

London, \$148,000. Actors Who Left Fortunes.

Many English actors left fair fortunes. For instance: Sir Henry Irv-\$98,000; Wilson Barrett, \$154,000; \$81,000; Sir Augustus Harris, \$118,000; Leno" (G. W. Galvin), \$55,000; W. R. A. Stirling, \$77,000; Edwin Terry, \$220,000.

forty-two, left \$371,000. E. C. Mitchell ple do. The present time suits Mrs. ("Capt. Coe"), veteran sporting writer, Harrison and she enjoys the comforts left \$32,000 to be given to his son on of advanced age instead of pining for condition that the son signed a pledge never to gamble.

DECRIES WAR BABIES CRY



Mrs. Isabel Ball, past national se-Mrs. Charlotte Dudfield, who left babies" and "war brides" is a silly fad. over the place for the pipe.

Centenarian Doesn't Long for "Good Old Times."

Keeps Up With the Times and Has No Special Formula for Longevity.

Denver.-Mrs. Alice reached the century mark of life recently. Mrs. Harrison has no formula for the use of those who wish to live to be one hundred years old. She has lived just an average sort of life And at the age of one hundred years she is a fairly regular church attendant. neighborhood of her home, waits on friends when they drop in to see her. She sews on patchwork quilts and makes fancy work for amusement, James Coates, thread manufacturer, and reads the war news. Perhaps she still retains a trace of youthful vanity, because she has always re-

Mrs. Harrison has made no especial effort to take care of her health. Neither has she refrained entirely from the use of medicine and the patronage of dectors. She has led a sedentary life, which is generally considered less healthful than a more active existence. Her chief occupa-Many high prelates have died rich | tion has always been sewing, and read-

tucky, May 28, 1815, the year of the Archbishop Benson of Canterbury battle of Waterloo. The greatest war left \$175,000; Archbishop Tait of Can- that had ever been known was con-York, \$105,000; Archbishop Thomson birth. But she has lived to see Euof York, \$223,000; Bishop Gott of rope engaged in another war which Truro, \$413,000; Boshop Walsham makes the Napoleonic conflicts seem

Mrs Harrison moved to Missouri with her father and mother when she was ten years old. She grew up and chester, \$146,000; Bishop Lightfoot of married there, and was the mother of Durham, \$133,000; Bishop Creighton of eight children. She has outlived four of her children, and may outlive more of them if she continues to hold her age in the future as she has for the past few years. She came to ing left \$103,000; George Grossmith, Denver forty years ago to make her home with her son, Nathaniel L. Har-"Fred Leslie" (Frederick Hobson), rison. Since that time she has made many friends here. She has always John Lawrence Toole, \$400,000; "Dan-liked Denver, but says she can be happy anywhere.

Perhaps the secret of her remarkably long life is that she doesn't live Top Loates, jockey, who died at in the past as much as most old peothe candlesticks and feather beds of her youth.

She takes an interest in the European war and reads the news of the sinking of the Lusitania without remarking that "such things never happened in her day." She doesn't care to meet strangers, but she takes a strong interest in the doings of her

She can remember the Mexican war. She has lived through the time of the invention of the telephone, the telegraph, the automobile, the phonegraph and the wireless telegraph. Sho has seen the caudle replaced by gas, kerosene and electricity. She has seen the marvel of an earlier age, the ironclad battleship, made useless by the invention of the submarine.

World's Smallest Park.

Pasadena, Cal.-Pasadena will soon boast the smallest park in the world, if plans of the Oak Knoll Improvement association are carried out. The park will contain one-fiftieth of an acre of ground, and when it has been improved and filled with bright flowers it will be deeded to the city

Stove a Whisky Cache.

Pine Bluff, Ark.-Bob Patterson, negro, was arrested here just after he had "planted" a stove in his garden. In police court Patterson confessed he nior vice-president of the Woman's Re- intended to use the place as a cache lief Corps, says the cry against "war for whisky. He had left an opening

JUST TO PLEASE HIS WIFE Coogler at police headquarters and

Atlanta Man, Starting on Business on Probation.

Atlanta.—Simply to please his wife, and not because he had done anything out of the way, a man who gave his name as W. R. Turner and his occu- and was apparently aware that when pation as a real estate agent, made a man was on probation he had to an unsuccessful attempt a few days report regularly to the police, and he

brother, he went to Probation Officer | ceed on his trip.

made his novel request.

"It's not that I have done wrong," and my wife objects."

his wife was nervous about the trip believed that with this safeguard his With another man, said to be his wife would relent and he could proCalf Has Only Three Logs.

Roseburg, Ore.-E. Harper of North Roseburg is the owner of a calf having he explained, "but it's this way. I only three legs. The call was born am about to make a business trip, a few days ago and is apparently in as good health as its more fortunate He then went on to explain that brothers and sisters. The animal has only one front leg, which Mr. Herper says is somewhat larger than the leg of a normal calf.

> To walk with children one goes at shorter steps, but one has time to admire the landscape.

distance of 190 miles on rafts

into a brief period by the surveyor. His is not

the task merely of the explorer who pushes

ahead by the shortest route to his objective, but

instead is that of choosing the easiest gradients

for the intrusive locomotive, spanning the short-

est valleys and bridging the rivers or torrential

streams where the foundations or the approaches

be built for the least amount of money com-

America are in southern Alaska, and from

their snow-clad shoulders in the spring and sum-

mer the waters flow seaward in great volume and

with much violence. Then the stricken timber

is washed down into the flooded channels, and

this wealth of logs rushes onward like a veritable

avalanche when the way is clear, or, what is

even more menacing, these millions of mighty

sticks jam in some narrow pass, penning up the

waters and themselves until ruptured by the

titanic forces they have halted for the while.

Then as the jam is broken onward tears the

roaring stream and the whirling timber until the

broad reach of some wide channels robs the tor-

dangers in planning the right of way and the

points for bridging, but their work will demand

that they actually cross some of these streams

when blazing the way for the line. The waters

are icy and the currents swift, while means of

Mr. Riggs has given us some spectacular in-

stances of the hazards confronting the civil engi-

neer in that part of the world, and what has been

experienced in the past up there is a pretty good

index of the difficulties to be faced in running the

line inland from the rail head of the existing

road, 71 miles long, which will form the nucleus

But torrential rivers loaded with millions of

logs are not the only forms of titanic masses

with which the railroad builder in Alaska has to

count. There are the slow marching but irre-

sistibly advancing mountains of ice, the glaciers,

and some of these have taken possession of the

very valleys through which the railroad engineer

would preferably choose to lead his line. Indeed,

the Copper River and Northwestern railroad in

Alaska gives a pretty good notion of some of the

difficulties to be faced by the surveyors and pro-

vided for by the government when it comes to

actual construction. That road is 195 miles long

and yet in that distance there are nearly 275

trestles, bridges, tunnels and fills. Indeed, there

are sections where a mile of construction has

that cost a million and a half dollars to build,

and before a bit of that structure was reared

the engineers spent three years in studying the

One of the most serious phases of Alaskan sur-

vey work is the problem of transportation. As

Mr. Riggs says. "There is food to be carried for

the party, which is a big item, and oats for the

horses. At some time during the life of the

Alaskan boundary survey every known form of

mer we have been known to adopt the Indian

practice and pack dogs. One year, at the close of

the season, practically all our horses had died,

and we journeyed down the White river for a

"Early one May a start was made from White-

transportation in the North was used. In sum-

peculiarities of those moving mountains of ice.

There is a steel bridge flanked by two glaciers

cost as much as \$200,000.

rescue are apt to be woefully scant.

of this great government undertaking.

The surveyors have not only to avoid these

rent of its turbulent fury.

Some of the most towering peaks in North

patible with present strength and durability.

Government Airships Should be Named After the Late Smithsonian Professor and Inventor.

WOULD CALL THEM LANGLEYS Saulnier," and other names fastened to flying machines that are heavier | "the unselfish devotion of the late to a 'plane by a builder or an aviator than air.

The reading world has become fa- creative and original service to avia- the commander in chief of the army that would attach to the coming into miliar with the word "Taube," and un- tion rendered by the late Prof. Samuel and navy, upon this subject being use of this term." derstands that it stands for a German Pierreport Langley of Washington brought to his attention, might favor seroplane. Men read every day of Two citizens of the capital have joined Colonel Hopkins' proposal and give flying machines that are called a in the suggestion perhaps it might directions that henceforth the govern-"Wright," a "Curtis," a "Hieriot," and even be called a movement-to have ment airships shall be called "Lang- lateral is character. - Youth's Compan-"Farman," a "Bristol," a "Morane the generic name "Langley" applied leys." Mr. Hackett has written that ion.

who has succeeded in fashloning a The suggestion seems to have been lution of the problem of aerial flight model differing from some other mod- brought forward first by Col. Archi- -to the discovery of the principlebald Hopkins of Washington, and has been admitted and admired by No flying machine is called a Frank Warren Hackett has seconded all well-informed Americans and that "Langley," in commemoration of the the motion, suggesting that perhaps our country ought to enjoy the honor

The Best Collateral. Even at a bank a man's best col-