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AIRCRAFT PROVE BIG AID IN SURVEY WORK

ECONOMY EFFECTED BY NEW METHOD.

Successful Application of Aerial Photography to Mapping of North West Canada.

During the season just closed a number of experiments were carried out looking to the utilization of aircraft for supplementing the work of parties employed by the Topographical Survey in western and northwestern Can-These experiments were conducted by the Royal Air Force of Canada under the direction of Mr. A. M. Narraway, Controller of Surveys, and consisted of the taking of series of wouldn't think that Ibson or any of vertical and oblique photographs from the above variations of it come from aircraft flying at pre-determined Isabella, but they do, all of them. heights, and the use of these photo- Of all the women's names which in graphs as an aid in the plotting of England gave rise to family names, topographical features on the map. Isabella is one of the leaders. The ex-

the area north of Pas, Manitoba, name was far more popular during where reliable maps are needed to those centuries in which family names facilitate the development of the min- came into vogue than it is to-day. eral and forest resources in which the The surname of Ibson, like that of district is known to abound. Here Bell, which also comes from Isabella, countless islands are separated by is not as ancient as a host of other surrocky ridges covered with almost im- names. In fact, it must be ascribed to penetrable bush. Owing to the mass a period quite some time after the adof detail required and the great diffi- vent of the Normans, for the name culties to be overcome in collecting it, Isabelle itself did not exist among the records as are available, this family the production of an adequate map of Anglo-Saxons, nor among the Normans name came into use just about the such a country by ordinary survey at the time of the conquest. methods is very expensive, and as a result the collection of topographical information has heretofore been restricted to the limits of the main connected waterways.

Carried Aerial Camera.

this area in the spring to establish a England ceased to be written in rate there are Douglasii in Tuscany, a through traverse line along the main French, and the clerks dropped the well-established and numerous family waterways extending from Athapapas- use of Latin. In many of those ancient which tends to substantiate this bit of kow lake to the Churchill river, as records you will find entries of names history of the Douglas clan. well as throughout the mineralized such as "Robert fil. (abbreviation of All those who bear the name of area to the east. In anticipation of the Latin filius, son) Ibotae," and Douglas eveidently may trace - their the aerial photographic work to be un- "Herve fitz-Ibote." But no such names names back to this great clan, unless, dertaken, the party was instructed to as Fitzibbot have come down to us, in- of course, some one of their ancestors note carefully the stations occupied dicating that at the time the Ibbot at some period consciously adopted it. so as to be able to identify these names developed the people them- It is not a name which could have points on the photographs. The party selves had ceased to speak French. sprung in several different places. was followed later in the season by a seaplane carrying a pilot, an engineer. and a photographer with suitable emergency rations to provide against forced landings. The plane carried an surd. A tumbler of water from the The little flowers of love and wonder aerial camera mounted over the nose and made flights at a height of about 4000 feet over the course followed by water seems to be colored, either by the survey party.

Oblique photographs were taken at ganisms contained in it. intervals of about three miles so that each picture would show in the foreground the terrain shown in backchanges to green. ground of the preceding one. In addition to these, other photographs were taken in a systematic manner at right angles to the line of flight. In this way photographs were obtained salt is greatest when evaporation is And stony ways. of a strip of country stretching for greatest, and therefore where the sun over five miles on each side of the line of traverse.

700 Views Obtained.

Subsequently, when the photographs the fact that less fresh water is dehad been developed and collated, a posited into it by rivers. The blue grid system was laid down on them sky also increases the color of the sea based upon the points of the survey, by its reflection. and corresponding to a system of squares on a plan, thus enabling the various topographical features to be plotted. Upwards of seven hundred views were obtained. These are now being plotted and the resulting maps will be the most complete ever issued of any district in the North.

The next series of experiments was carried out in the settled areas in the vicinity of Red Deer and Edmonton, Alberta, where topographical maps were being made by the ordinary field methods. Oblique photographs were taken at various altitudes from five thousand to ten thousand feet. his back."

A further series of experiments was conducted in the Edmonton district, in conjunction with the surveys for the classification of lands for settlement. This work requires the use of accurate maps showing the roads and trails, areas covered by bush, swamps, hay meadows, and other natural features. sarily slow, whereas, since the country suitable for settlement has already worked hard, saved his money and Desert be included. France is the been laid out in sections and quarter sections, and as the surveyed lines wife decided to buy an automobile. Britain, Belgium, Portugal, Italy and the air, all features may be mapped without further ground control.

Results and Conclusions. The experiments above described in- spiral truth winds to a tight place. dicate great possibilities. In Western GIRLS! HAIR GROWS Canada the Dominion Lands survey forms an excellent natural system for scaling photographs and outline maps can be filled in at a reasonable cost. similar to the area near Pas and it is only reasonable to expect that the same success which attended the experiments there will be attained when the method is applied on a larger scale. Results indicate that it is possible to go into an area previously unmapped and by means of aerial photography and a comparatively small amount of ground work to map even the most intricate waterways. A greater distance can be covered in the season

with considerable saving in cost. There can be no doubt that aircraft and aerial photography by rendering corrected immediately. Thin, dry, friendship and benevolence toward the possible the economical production of wispy or fading hair is quickly invig- person who has so kindly an effect uptopographical maps will play a large orated, taking on new strength, color on it.—Addison. part in opening up our immense hint- and youthful beauty. "Danderine" is ment of our resources.

TEA is good tea

Racial Origin-Scottish.

is not Irish, but Scottish.

which as such rivals the most ancient

of the Irish family names, though it

The clan of Douglas claims the un-

interrupted use of this name in the

family sense for more than 1,100 years,

which is a noteworthy claim consider-

ing that most family names can be

traced back only to about the year

When Solvathius was king of Scot-

land, in 770 A.D., the clan of Douglas

was well established, and the name

has been passed down from generation

If the foregoing claims are accepted

and they appear to be verified by such

time the Anglo-Saxons were getting

to generation, from that day to this.

Source-A clan name.

and extra good is the **ORANGE PEKOE QUALITY**

Surnames and Their Origin

Variations-Ibbot, Ibbotson, Ebet, Ebi- Variations-Douglasii.

Source-A given name. From the form of the name

Operations were first conducted in planation lies in the fact that the

Nevertheless you can trace a rem- well settled in England and were renant of Norman influence in the dim- pulsing the attacks of the Danes. inutives of the name, the ending in It is told also that one of the ancient "ot" and "et," which place it not leaders of this clan crossed over to the among the very latest of surnames. continent and took service with the And we know that it did develop be- great Charlemagne, receiving from A survey party had been sent into fore the court and legal records of him grants of land in Tuscany. At any

The Color of Water.

A Large Pain.

Vicious Circle.

THICK AND BEAUTIFUL

Neglected Hair.

greasy! Any drugstore.

his back rubbed with!"

wards the Equator.

The Little Flowers of Love and wonder.

To speak of color in water seems abtap shows no color at all. How many | That grow in the dark places. instances there are, though, where And between the giant rocks of

refiction of light or by material or or- And the coarse winds of space.

As a rule, tropical seas appear quite The little flowers of love and wonder blue, and as one travels farther from That raise their heads the Equator the blue gradually Beneath the dread rains And against the chill frosts: The color varies according to the That peep and dream

amount of salt in solution in the In flaws of light water; and as the concentration of And amid the still gray places

is strongest, the blue is intensified to- The little flowers of love and wonder That peep and dream. In the case of the Mediterranean the And quickly die. salt is further concentrated owing to The little flowers of love and wonder.

-Theodore Dreiser.

Worried the Waiter.

A little woman and her tall husband entered a small restaurant and took seats at a table. "You will have soup, of course," the

husband, glancing at the menu. "Yes," said the little woman, as she tried to reach the floor with her toes. "And, John, I want a hassock." John nodded, and, as he handed his order to the waiter, he said, "Yes, and

bring a hassock for the lady." "One hassock?" asked the waiter. He fidgeted for a moment, got very red, and then bent over John's left Turtle-"So you're calling on Mr. shoulder. "I say, mister," he said, in Hippo, who has a pain in the small of a low voice, "I haven't been here long, and I'm not on to all these things. Dr. Monk-"Yes, and I've ordered Will the lady have the hassock boiled

two barrels of liniment for him to have or fried?" African States.

Keep Minard's Liniment in the house ! The whole continent of Africa has only three independent states, Egypt, to the ole girl." Abyssinia and Liberia; and Great Bri-A Mid-Western paper reports one of tain really dominates both Egypt and Mapping by ordinary methods is necest the most "vicious circles" we have Abyssinia, and the United States virchanced to read about. A young man tually controls Liberia. If the Sahara throughout Canada. bought his house. Then he and his greatest landowner in Africa. Great and roads are nearly all visible from They mortgaged the house to buy the Spain follow in the order named. Gerautomobile and lately had to mortgage many, which once ruled over more the automobile to pay the interest on than a million square miles, is now the mortgage on the house. That entirely out of Africa. The Cape-to-Cairo railway now building is expected to open for development vast areas of rich country.

To Preserve a Friend

In the unsettled North, the country is 35-Cent "Danderine" Does him present, praise him absent, and Wonders for Lifeless, assist him in his necessities.-Italian Saying.

A gleamy mass A cheerful mind is not only disposed of luxuriant hair to be affable and obliging, but raises full of gloss, lus- the same good humor in those who tre and life short- come within its influence. A man ly follows a genu- finds himself pleased, he does not ine toning up of know why, with the cheerfulness of tween them. neglected scalps his companion. It is like a sudden with dependable sunshine that awakens a secret delight

the dandruff is cord and naturally flows out into leties.

erland to the geologist, the prospector, delightful on the hair; a refreshing, A prosperous man is like a tree, and to all interested in the develop- stimulating tonic - not sticky or which men beset so long as its fruits year and play an important part in sist upon genuine "California Fig

Home and the Baby.

Home was never home before, Till the baby came, Love no golden jewels wore,

Till the baby came. There was joy, but now it seems Dreams were only rosy dreams, Sunbeams not such golden beams, Till the baby came.

Till the baby came, I'd forgotten how to play, Till the baby came, Smiles were never half so bright, Troubles never half so light, Worry never took to flight,

Home was never really gay,

Till the baby came.

Home was never half so blest, Till the baby came, Lacking something that was best, Till the baby came, Kisses were not half so sweet, Love not really so complete, Joy had never found our street, In Douglas you have a family name

Till the baby came. Fighting Sugar's Foes.

Many people, even farmers and market-gardeners, have possibly never heard of thermo-gen. It is a paper made from sugar-cane, the waste subjuices have been squeezed out.

A Hawaiian planter, named Charles Eckart, has found a use for this hitherto waste product of the sugar industry. Reduced to pulp, and made into an asphalt-impregnated paper in rolls of immense length, it is put to a use which is so surprising as to seem almost incredible.

Two great enemies have been the and torrential rains. The first took are as good as ever they were. Bebugbears of the sugar-growers, weeds the nutriment intended for the plants, Pills life was a burden; now I enjoy and the second washed the roots out of the soil and did immense damage.

To-day there are machines which travel across the sugar plantations lay- did for me it can do for others." ing this paper like a long carpet over the soil in which the roots lie buried waiting for the season of growth. It keeps the soil undisturbed by rain, retains a proper moisture, allows the heat of the sun to percolate, and keeps away the flying seeds of innumerable weeds. The sharp spikes of the springing sugar-cane pierce the paper and the unusual sight is seen of a plantation free from weeds.

KEEP LITTLE ONES

Winter is a dangerous season for the little ones. The days are so changeable-one bright, the next cold and the leader, consulting his programme. stormy, that the mother is afraid to "Good Heavens!" ejaculated the take the children out for the fresh air trombonist. "I just got through playand exercise they need so much. In ing that one!" consequence they are often cooped up in overheated, badly ventilated rooms and are soon seized with colds or grippe. What is needed to keep the little ones well is Baby's Own Tablets. the great French surgeon, had per-They will regulate the stomach and formed a difficult operation, called upbowels and drive out colds, and by on him, full of gratitude, and presenttheir use the baby will be able to get ed him with a pocketbook that she over the winter season in perfect safe- had embroidered with her own hands. ty. The Tablets are sold by medicine Velpeau received the testimonial dealers or by mail at 25 cents a box crustily, saying that it was a beautiful from The Dr. Williams' Medicine Co., pocketbook and all that, but that his Brockville, Ont.



Labor Turnover.

"What's labor turnover?" "Coughing up yer hard-earned cash

Dominion Express Money Orders are on sale in five thousand offices

Residual.

When books I love are no longer my And I'm deaf to the word the night wind sends;

When my soul denies the beauty of Rocky mountains are nearly as large And I'm only a husband to my wife; Switzerland.

When I've come to the grave of eat and sleep, Three things are necessary: to honor Oh, bury me, friends! and bury me

than to rise the next morning with

Reason rules our judgments; our ed. bilious, fevercharacters determine our actions; ish, or sick, colic hence the frequent inconsistency be Babies and Child-

All domestic pigeons are descended nia Fig Syrup." in the mind, without her attending to from one species, the Blue Rock. No other axative Falling hair, it. The heart rejoices of its own ac-

> Canada's forest resources constitute one of the Dominion's most valuable ing. Contains no narcotics or soothassets. They contribute to the trade ing drugs. Say "California" to your of Canada upwards of \$200,000,000 a druggist and avoid counterfeits! In-

HEADACHES FOR WEEKS

They Soon Disappeared After Using Dr. Williams' Pink

distresses her, headaches and dizzi- like the arrangement, and so they had not been disturbed. This con ness follow, there is a fluttering of the made a frightful uproar and organized tained nineteen ossuaries and is in heart, and the complexion becomes strikes against the "legal hour." The scribed with Hebrew characters. It is pale. In cases of debility of this kind street railway employees, for example, supposed to have belonged to a priestbuilding up the blood is generally ef- were striking. I asked one of them his ly family. The names Jeshebeab Imfective. By improving the quality of reasons. the blood and increasing its quantity. nourishment is carried to the shatter- necessary for us to get up too early in epigraphical evidence to indicate that ed nerves. The appetite invariably the morning. Everything is foggy and the vault dates from the late Maccaimproves and gradually the exhausted dark." system is toned up and the whole outlook of life is brightened. Mrs. Geo. Grant, R. R. No. 1, Markdale, Ont., him an extra hour of daylight when halts in the telling. tells for the benefit of others the great his work was done. benefit Dr. Williams' Pink Pills were to her in a run down condition. She and dark when we get up." says:-"If anyone can strongly revery thin, I had no appetite, could mously in favor of it!" hardly go about. I was afraid to stay alone in the house as I feared something would happen me. Finally I decided to try Dr. Williams' Pink Pills and they have made me a new woman, as I am now the picture of health. I have increased in weight, the headaches come no more, and my nerves living, and I hope some other woman will take courage from my experience, for I feel sure that what this medicine

You can get these Pills from any medicine dealer or by mail at 50c a box from The Dr. Williams' Medicine Co., Brockville, Ont.

All Wrong but the Trombonist. Popular music to-day is often so ornamented with irrelevant and imper-Minnesota town had just finished a and-sea route by way of Montreal. vigorous but not particularly melodious selection. As they sank perspiring to their seats after bowing selfconsciously for the applause the trombonist asked hoarsely:

"What's the next one?" "The Maiden's Prayer," answered

He Should Have Looked the Gift Horse in the Mouth.

A lady upon whose child Velpeau,

necessities demanded something more substantial. "My fee," he said coldly, "is five thousand francs." The lady very quietly opened the pocketbook, which contained ten one-

Ask for Minard's and take no other. A Deadly Insult.

and, politely handing them to Velpeau,

for the guard to bundle their boxes out of the van, the young bride and bridegroom were manifestly embarrassed. Then an outside porter came up and asked: "Can I look after yer baggage for yer, mister?"

The red blood mounted to the young bride's cheeks, and turning to her "Bayer Cross." hubby she demanded: "Well, well, well! If ye ain't agoin' to thrash him for refairin' to me like that, ye're no man, George!",

More Than One Poor Writer.

The professor had written on the back of a theme: "Please write more Student (next day) - "Professor,

what is this you put on my paper?" Canada's national parks in the as Belgium and two-thirds as large as

Mother! Give Sick Baby "California Fig Syrup"

Better to go to bed without a meal Harmless Laxative to Clean Liver and Bowels of Baby or Child.

ren love to take genuine "Califor-

sweetens the stomach and starts the liver and bowels acting without grip-Syrup" which contains directions.

The Legal Hour.

Daylight saving is unpopular in Italy because of the name the government ascribed to it. At least that is former 6 POUNDS LEAF TOBACCO. ONE Premier Nitti's laughing explanation. over Canada for \$2. Lewis Wigle, The new time was called the "legal Leamington, Ont.

hour." With the advent of spring, says Mr. Every woman, at times, finds the Kenneth L. Roberts in Europe's Mornroutine of housework irksome. But ing After, the Italian government or- Arabs digging in the Valley of Kidhow much more difficult are the daily dered that all clocks be set back an ron, sometimes known as the Valley tasks of the home to the woman who hour so that the people might have the of Jehoshaphat, between Jerusalem is nervous and rundown? She pre- advantage of an extra hour of day- and the Mount of Olives, accidentally pares meals for the family, but has no light. But in Italy, as in other coundiscovered three chambers and appetite for food. What she does eat tries, a large number of people didn't family vault, the contents of which

I reminded him that the new hour saved coal for the nation and gave

"Yes." he said, "but it is too foggy

"Our mistake," declared Nittl, "was commend Dr. Williams' Pink Pills I in calling it 'the legal hour.' We feel I can. For over four years I had should have known that no true Italian stance left after the sugar-producing been troubled with my nerves, and for would have endured it. We should weeks at a time I would suffer ter- have called it 'the illegal hour.' Then ribly with headaches. My blood was every Italian would have been unani-

Spruces.

Little green spruces Are counting on their fingers, On a million fingers Gemmed with early dew, All their fragrant uses, Blessed joy that lingers

Summer time, winter time,

The whole year through.

Breathe a million praises, Little green chorus! Shake your spicy thankfulness Through the golden air! Everliving phrases Echo in and o'er us.

Telling us our blessedness. Urging us to prayer. -Abbie Farwell Brown.

tinent sound from some of the more ship many of their dairy products to grippe. Inhale Minard's and rub noisy instruments that no one is as- England by way of the Panama tonished if the results are not always Canal. The rate of \$1.50 a hundred harmonious. The band of a small pounds is \$1.77 cheaper than the rail-

Beware of Imitations!



Cross" on package or on tablets you are not getting the genuine Bayer Aspirin proved safe by millions and prethousand-franc notes, counted out five scribed by physicians over twenty-

three years for Headache Lumbago Toothache Rheumatism Neuritis Pain, Pain Neuralgia Accept "Bayer Tablets of Aspirin"

It was their honeymoon trip to Bir- only. Each unbroken package conmingham, and the first time they had tains proven directions. Handy boxes ever been out of Shropshire. As they of twelve tablets cost few cents. Drugwaited on the platform at New Street gists also sell bottles of 24 and 100. Aspirin is the trade mark (registered in Canada) of Bayer Manufacture of Monoaceticacidester of Salicylicacid. While it is well known that Aspirin means Bayer Manufacture, to assist the public against imitations, the Tablets of Bayer Company will be stamped with their general trade mark, the



A Quick Relief for Headache

A headache is frequently caused by badly digested food; the gases and acids resulting therefrom are absorbed by the blood which in turn irritates the nerves and causes painful symptoms called headache, neuralgia, rheumatism, etc. 15 to 30 drops of Mother Seigel's Syrup will correct faulty digestion and afford relief

Classified Advertisement

FOR SALE

Historic Vault Found.

ma, Shelom-Zion, Eliezer and Shimeon "The new hour," said he, "makes it have been deciphered, together with bean period.

It is most often a lame story that





Alberta and Saskatchewan now are the forerunners of colds and it on throat and chest.



WEAK, RUN DOWN AND AILING

Lydia E. Pinkham's Vegetable Compound Brought Relief When Other Medicines Failed

Port Mann, B. C .- "I took Lydia E. Pinkham's Vegetable Compound because I was tired and runtite and was trouble

many medicines, but real good. While] was living in Washington I was recommended by a stranger to take Lydia E ble Compound. I am scronger and feel

use these facts as a testimonial."-Mrs. J. C. GREAVES, Port Mann, B. C. Feels New Life and Strength Keene, N. H .- "I was weak and rundown and had backache and all sorts of troubles which women have. I found reat relief when taking Lydia E. Pinkham's Vegetable Compound and I also used Lydia E. Pinkham's Sanative Wash, I am able to do my work and feel new life and strength from the Vegetable Compound. I am doing all I can to

fine since then and am able to do my

housework. I am willing for you to

72 Carpenter Street, Keene, N.H. Sick and ailing women everywhere n the Dominion should try Lydia E Pinkham's Vegetable Compound.

advertise it."- Mrs. A. F. HAMMOND,



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Soap and hot water, dry gently, and

apply Cuticura Ointment to the af-

fected parts. Always include the ex-

quisitely scented Cuticura Talcum

Soap 25c. Ointment 25 ane 30c. Talcum 25c. Sold

throughout the Dominion. Canadian Depot: Lymans, Limited, 344 St. Paul St., W., Mentreal.

Cuticura Soap shaves without mu

in your toilet preparations.