The Government's Great Work For the Farmers.

By Henry Loomis Nelson

It is not many years since the Department of Agriculture was a very small concern, but now it is in fact as in name a great and perhaps the most useful department of the government, while at its head is a mem

ber of the cabinet.

What does this department do the farmer? Working in an unfrequented part of Washington, or out in the country in Maryland, or at the various experimennt stations which are usually connected with agricul-tural colleges, are about 3000 people. Of the 2000 in Washington about one-

his neighborhood, and of the crops which may be most profitably grown on his farm. The department makes



IN THE BOTANICAL GARDEN.

the necessary experiments for and money, and putting him that far ahead in the game which his father had to learn all about for himself. A distinguished economist told me not

conditions of the soil and climate of not usually grown here. It has thus been found that jute can profitably be raised in the South, and flax on Puget Sound. The department furnishes farmers with information as to the character of weeds sent by them for identification, and it issues warnings to State experiment stations and to local authorities of the presence of dangerous weeds in their localities. It also makes tests of seeds and publishes the information gained by the experiments. It spreads abroad information as to grasses, grains, pois-onous plants, roots and fruits. It makes thorough examination of soils makes thorough examination of soils for agricultural purposes, ascertains their texture, and issues a bulletin showing graphically the differences in important types of land. The same bulletin "shows that most of our agricultural crops are adapted to soils of certain texture, differing greatly for the various crops." Bulletins are also issued showing the moisture also issued showing the moisture maintained by these crops, and the

differences between adjacent soils

The department tells the farmer the character of his land, the kind of crop

best adapted to it and to the climate, is constantly experimenting to dis-cover new crops for him, furnishes

him with seeds, tells him the nature of the enemies that will attack his crops, warns him of their actual

presence, and instructs him as to the remedies to be applied. It also separ-

ates his diseased cattle from his healthy cattle; stamps the latter so

that they bring a higher price abroad

than competing cattle bring; informs him of the character of the foreign

demand for farm products, and advises him as to the best manner of packing

arterwards there was another appropriation of a like amount. Two years after that Congress appropriated \$2000. By 1857 the annual expenditure had reached \$75,000, but it fell again and then rose, but it did not exceed \$500,000 until 1885, and the occasion of the increase for that year was the establishment of the Bureau of Animal Industry. In 1888 the appropriation exceeded \$1,000,000, but it had year the Weather Bureau was propriation exceeded \$1,000,000, but in that year the Weather Bureau was transferred from the Signal Corps to the department. The Government is now spending about \$3,000,000 a year on its farmers, but included in this sum is about \$2,000,000 for the Weather Bureau, the Bureau of Animal Industry, and the experiment stations. dustry, and the experiment stations, These last perform as valuable ser-vice—perhaps the most valuable service rendered to agriculture by the department.
The above interesting article and

the cuts which accompany it are re produced from Harper's Weekly.

CHICAGO HAS TWO WILD DOGS Said to Be the Only Ones on This Conti-nent—Natives of Australia.

Cautiously creeping from darkened kennels to snatch a bit of food from the floor of the iron cages when no one is near, and darting back like a flash at every strange noise and sight, two dingo dogs, or wild dogs of Australia, have begun the daily routine of their career behind bars in the Lincoln Park Zoo. They are the only two dingo dogs on the American continent, and were shipped directly from Australia.

Naturalists term the dingo the king of the dog family. While no larger than a medium-sized shepherd they are the terror of Australia possess-ing far more cunning than the fox and being more destructive than the wolf. They have been considered incapable of domestication, but of late years several instances are known where they have been tamed. Until recently the dingo was thought to be a domestic dog returned to the savage state, but in the latest researches of McCoy and Nehring fossil remains of the canine have been found in the pliocene and quarternary strata of Victoria, which proves the animal to be a genuine wolf. He immigrated to Australia through the country uniting Australia and southeastern Asia at a certain period of the pliocene epoch.

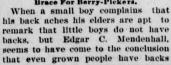
The dingo inhabits the plains and the dense forests of Australia. Like the fox, ne hides in the daytime and prowls at night, threatening all Aus ralian quadrupeds. He attacks every



DINGO, OR WILD DOGS OF AUSTRALIA. animal indigenous to Australia; his favorite prey being sheep and kan-garoos. Prof. C. W. McCurren, head animal keeper, prizes the dogs as among the most valuable possessions of the zoo.-Chicago Record.

When a Russian Princess marries after the wedding dinner and ball it is the privilege of the marshals and ministers to see the couple to the nuptial chamber. And after a becoming interval it is the duty of the prince to come out and distribute precious mor-sels of his partner's garters to the haughty and exclusive crowd who have been waiting. Each little bit bears the royal crown and the princess's initial in embroidery.

Brace For Berry-Pickers.





APPLIANCE TO STRENGTHEN THE BACK

American farmer is the most intelli-gent farmer in the world. Statistics a stooping position for several hours of farm mortgages and farm holdings at a time. In the illustration we a stooping position for several hours at a time. In the illustration we show his new back brace for the use of cotton-pickers, berry-pickers, etc.
The entire device is light in construction and responds quickly to the different movements of the body, and
does not produce an uncomfortable
sensation when applied to or tend to
best the beds. heat the body.

A complete set of Mafeking siege postage stamps has been sold at a Lou-don nuction for \$180 and two sets 2^t Mafeking paper money for \$110.

DR. TALMAGES SERMON.

SUNDAY'S DISCOURSE BY THE NOTED DIVINE.

Nubject: Christ's Character—Wis Earthly Life Replete With Beautiful Exam-ples—Practice Self Sacrifice and Hu-mility and Help Bear Burdens of Others [Copyright 1900.]

ples—Practice Self Sacrifice and Humilly and Help Bear Burdens of Others

(Copyright 1800.1)

WASHINGTON, D. C.—In this sermon,
which Dr. Talmage sends from Paris, he
analyzes the character of the Saviour, and
urges all Christians to exercise the qualities which were conspicuous in Christ's
earthy life. The text is Romans viii, 9:
"Now, if any man has not the spirit of
Christ he is none of His."

There is nothing more desirable than a
pleasant disposition. Without it we cannot be happy ourselves or make others
happy. When we have lost our temper
or become impatient under some light
cross, we suddenly awaken to new appreciation of proper equipoise of nature. We
wish we had been born with self balance,
we envy those people who bear themselves
through life without any perturbation, and
we flatter ourselves that, however little
self control we may now have, the time
will-come, under the process of years,
when we will be mellowed and softened,
and the wrong things which are in us now
will then be all right, forgetful of the fact
that an evil habit in our nature will grow
into larger proportions, and that an iniquity not corrected will become the grandfather of a whole generation of iniquities.
So that people without the grace of God
in the struggle and amid the annoyances
and exasperations of life are apt to become worse instead of better.

Now, the trouble is that we have a theory abroad in the world that a man's disposition cannot be changed. A man says,
"I am irascible in temper, and I can't
help it." Another man says, "I am revengeful naturally, and I can't help it."

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A man says, "I am impulsive, and I can't
help it." Another was consecutive to the convension, are just the opposite of what they
used to be. In other words, we may, by
the spirit o

pathy, and he .s saved. You cannot scold the world into anything better. The stormiest wind comes from its hiding place and says, "I will arouse this sea, and it blows upon the sea. Half of the sea is aroused, yet not the entire Atlantic. But after awhile the moon comes out calm and placid. It shines upon the sea, and the ocean begins to lift. It embraces all the highlands, the beach is all covered. The heart throb of one world beating against the heart throb of another world. The storm could not rouse the whole Atlantic; the moon lifted it. "And I," said Christ, "if I be lifted up will draw all men unto Me."

Christ's disposition was also one of self-sacrifice. No young man ever started out with if He had been willing to follow a worldly ambition.

In the time that He gave to the sick He might have gathered the vastest fortune of His time. With His power to popularize Himself and magnetize the people He could have gained any official position.

No orator ever won such plaudits as He might have won from sanhedrin and synagoue and vast audiences by the seaside; no physician ever got such a reputation for healing power as He might have obtained if He had performed His wonderful cures before the Roman aristocracy.

I say these things to let you know what Paul meant when he said, "He pleased not Himself," and to show something of the wonders of His self sacrifice. All human nower together could not have thrown Christ into the manger if He had not chosen to go there: all satanic strength could not have lifted Christ upon the cross if He had not elected Himself to the torture.

To save our race from sin and death and hell He faced all the sorrows of this

Christ into the manger if He had not chosen to go there: all satanic strength could not have lifted Christ upon the torture.

To save our race from sin and death and hell He faced all the sorrows of this world and the sorrows of eternity. How much of that self sacrifice have we?

What is self sacrifice? It is my walking a long journey to save you from fatigue; it is my lifting a great number of pounds to save you from the awful strain; it is a subtraction from my comfort and prosperity so that there may be an addition to your comfort and prosperity. How much of that have we? Might not I rather say. "How little have we?"

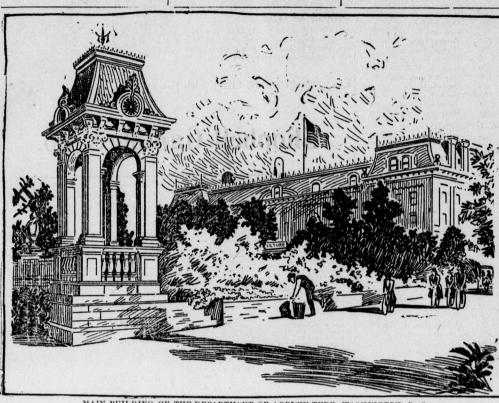
Two children. brother and sister, were passing down the road. They were both very destitute. The lad had hardly any garments at all. His sister had a coat that she had outgrown. It was a very cold day. She said, "Johnnie, come under this coat." "Oh." he said, "no; the coat isn't large enough." "Oh," she said, "it will stretch." He comes under the coat, but the coat would not stretch. Sc she took off the coat and put it on him. Self sacrifice, pure and simple. Christ taking off His robe to clothe our nakedness Self sacrifice, pure and simple. Christ taking off His robe to clotheour nakedness Self sacrifice? I have not any of it, nor have you, compared with that. The sac rifice of the Son of God.

Christ walked from Jerusalem to Gol gotha. How far have you and I walked from Capernaum to Bethany; Christ walked from Jerusalem to Gol gotha. How far have you and I walked for Christ? His head ached; His heart ached; His back ached. How much have we ached for Christ!

How much of that humility have we! If we get a few more dollars than other people or gain a little higher position, oh how we strut! We go around wanting everybody to know their place and say. "Is not this great Babylon that I have built for the honor of my kingdom and by the might of my strength?" Who has anything of the humility of Christ?

The disposition of Christ was also the spirit of prayer. Prayer on the mountains, prayer on the s

service, are just the opposite of what the used to be. It other words, we way, for Jesus Christ implanted in our disposition, and we must all the content of the content of



MAIN BUILDING OF THE DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C.

half are scientific men. There are two large bureaus, twenty-two divisions, offices, or surveys. Of these seven are administrative, eight technical, an seven are purely scientific. To these must be added the offices of Weather Bureau, which 154 observer stations, and fifty-two stations along the coast and on the Great Lakes. The Bureau of Ani-mal Industry has 152 technical stations engaged in meat inspection and quarantine work, and three laboratories where the diseases of ani-mals and their causes are investi-

This article would be uninteresting



THE HYDROCYANIC GAS TREATMENT.

undertake to describe technically the work done by the department. I shall try to give the reader a general idea of what these practical and scientific men are doing for the country, be-cauce after a visit to the bureau in Washington I was led to read a good deal of its literature, and to look in-to the subject, and it struck me that the work is not only in every way worthy, but that its real value is not widely understood, has been laughed, or smiled into oblivion, perhaps on account of the jokes about the seeds and the "farmers" who distribute and

long ago that it was hardly possible to overestimate the good that the experiment stations had orked in the business of farming. It was this statement that put me on my inquiry. These experiment stations, by the-way, receive money from the States—a little more than half as much as they receive from the general Government. As is to be expected, the farmers at first entertained a very contemptuous idea of the scientists in charge of the stations, but they are now coming to depend upon them, and to go to them for advice. Their confidence was first gained by the protection which they obtained from the stations against frauds and impositions in commercial fertilizers, and now the stations look after the 'armers' interests in respect of nur sery stock, dairy products, and feeding-stuffs, and aid them materially in fighting injurious insects. In addition to these police duties the men at the stations are ergaged in making original investigations in agricultural problems, and the results are pub-lished in farmers' bulletins and in

the form of pamphlets.

An idea of the work done by the whole department and of its value for its work is well done-may be obtained by an enumeration of some of the subjects which have been inves-tigated and on which publications have been issued. The division of vegetable physiology and pathology has studied the disease of shade and ornamental trees, and has instructed those who plant and care for such trees in the causes of and remedies for the diseases. It has taught fruit growers how to care for and improve the orthe first place the department has discovered the secret of propagat-

THE PERSON NAMED IN THE SPRAYING-MACHINE. his fruit for shipment. The value of the work of the forestry division cannot be overestimated. It has done much to stimulate a widespread interest in the subject of forest preservation, and has accomplished an admirable work in decreasing the number of forest fires. The department also instructs the farmer in the art of making good roads, and excites a desire for them by spreading abroad a knowledge of their great economic value to all who have heavy loads to haul to market or the railway station.
This work is done by the Govern-

ment for the benefit of those who annually provide from sixty-five to seventy per cent, of the materials for our export trade, and as if to emphasize the fact that the expenditure of the \$3,000,000 is partly in aid of commerce, the Weather Bureau, whose warnings of the approach of coast storms have saved millions of dollars' worth of property and thousands of lives, is attached to the Department of Agri-culture. There is no doubt that the show that he is the most prosperous, and his Government does more than any other Government to help its agriculturist to s'illful, wise, and prof-itable cultivation, and to point out to him the most advantageous methods

of distribution.

For all the work which this department has done the government has thus far extended less than \$32,000,-000. The first appropriation for the agricultural department was of \$1000, and was made in 1839. Three years



farming as profitable as in the nature of things it can possibly be. It does this by fording to the farmer who of work is done in investigating the will avail himself of it full knowledge character and conditions, including of the requirements of his art, of the proper habitat, of plants that are