# Activity of Psychologists

One of the Youngest of Sciences Is of Especial Aid to the Government

Psychology, one of the youngest of the sciences, but nevertheless one equipped with standardized methods of experimental procedure, is steadily answering the call to the colors. Eminent scientists from almost every field of knowledge have been summoned to give expert advice or to render continuous service as commissioned officers in the army. So heavy has been the levy that several of the Eastern universities have been compelled to cancel all their courses in psychology; other institutions are offering only a bare minimum of courses. The University of Illinois has been more fortunate in this respect. While several of its psychologists have been called away, the work of the department is pursuing a nearly normal course.

Capt. Madison Bentley of the department of psychology has for some time been president of the Cleveland aviation board. His work consists mainly in selecting aviators and examining them for color blindness, certain spatial perceptions, dizziness and general mental capacity. Prof. G. M. Whipple has also been asked to assist in formulating suitable mental tests for the selection of drafted men and for men in special lines of training.

In addition to the recognition of necessary abilities for the service, problems concerned with the localization of sounds in the air, discrimination of projectiles by sound, and the effects of high altitudes upon the memory are being worked out. Prof. Christian Ruckmick, also of the University of Illinois, is serving upon the committee for localization of sounds coming from any point in the air, under water or in the ground. Since few people have a sensitive ear to determine the position of an enemy gun by noting the sound of the projectile in its course, apparatus is being worked out for such detection.

Work in the cantonments consists in the apprehending of mental defectives and in noting special aptitudes of the men. In this way much waste of time and money for special training can be eliminated. Psychological problems of incapacity, shell-shock and re-education occupy the attention of another committee, and collaborating with them is a group of psychologists who are studying problems of vocational guidance and advice. Still another group has already done important work in determining and devising means to arouse emotions which result in maximum service from the men.

# Saving Foodstuffs

By MRS. LUTHER BURBANK Wife of Noted Plant Scientis

Did it ever occur to you that eating, sleeping and the large consump-



foods is more of a habit than a necessity to sustain life? The man or woman who has been used each morning to his or her ham or bacon, with eggs, will undoubtedly consider it practical starvation if asked to forego these bubits, yet there are today millions of people on the earth who ent less in two days than you and I consume in one meal, but who are among the health-

tion of certain

lest on earth. Mrs. Burbank. Study history, look into the life and habits of the anclent Greeks, and you will find that the nations which used the plainest, simplest and most menger fare were among the strongest, while those who descended to table habits bordering upon gluttony rapidly retrograded. Why? Because the mind of the glutton is a dead mind. He cannot think, his whole body is sluggish, the organs are so clogged that they are unable to function properly and the result is physical and mental decay.

Eating is a matter of habit. We in America, the great land of plenty, have been accustomed to eat what we wished. For generations it has been the same until, from simplicity of eating, we have bordered closely onto excess. This is not true of everyone. America is not a nation of gluttons, but I do maintain that, on an average, we Americans consume perhaps twice as much as is necessary to sustain life, and that this very overconsumption has been the cause of more illness, more doctors' bills and more suffering than any other one cause.

In all life we are creatures of heredity. When Mr. Burbank wishes to produce a new flower he looks back into the past ages and finds all about the ancestors of that flower. He discovers that a flower which had once been fairly hardy and able to withstand rigorous winters, has become a delicate plant which must be tenderly nourished, or it will die. This condition is brought about through centuries of pampering. It has been artificially cared for, well watered, and thoroughly fertilized with the result that nature has not been called upon to give it protection.

And so it is with us. We have been reared in a land of plenty; a smell, keen vision, and fleetness of foot for his daily food is a wonderful milmal. Nature provides him with all over three cents with gasoline, and these essentials to sustain life. Take three cents exactly with electricity. these essentials to sustain life. Take three cents exactly with electricity.— be in read year's crops. that same savage from his wild en- Popular Science Monthly.

vironments and daily struggle with life, place him in surroundings of plenty, and in two or three generations his descendants will have lost all of those wondrous senses their ancestor had developed. The American Indian is the most striking example of this we have today.

With these few facts before us let us now look into those little practices of saving which we all believe in trying to put into effect, but which many of us deem impossible, because habit has made us believe that we cannot live without certain things to eat and a certain quantity of each,

#### Kite Balloons Form Very Important Part of Naval and Military War Forces

"The observation balloon has been year," observes a writer in Aviation, ho continues:

"Its value is indicated by the rapid growth of both personnel and craft. almost every mile of that front, for the dispensable to the modern army in the

"The observation kite balloon, as at Parseval of the German army, and matters pending. the craft was constructed by the Parseval Airship company. The British Squadron (now Wing) Commander have been coming in fast to the county Maitland was so much impressed by the excellent service it was giving the Belgian artillery that he laid a proposal for similar equipment before the board of admiralty. This was adopted, orders for the construction of the craft were placed and the British K-B made its first appearance in the war area in the early spring of 1915.

"As then constructed by the British, the balloon was found to be considerably more reliable than the spherical, being steadler and more airworthy, and therefore more accurate in observation.

"The great success of the first craft led to a demand for more, and the British naval authorities made experiments with them on ships at sea. More and more urgent grew the demand from both branches of the service, until today kite balloons form an important part of both naval and military forces.

from hostile airplanes. There is often body and mashing his head to a jelly. not time enough to draw the balloon to the ground when an enemy machine appears, and the only protection is a parachute."

# Cheap Fuel.

Today the question of fuel is a burning one, metaphorically as well as literally. In a series of very interesting tests recently conducted at the Ohlo State university, natural gas was found to be the cheapest combustible. There are many places, however, where land of vast crops and rich food and, it is not available. A breakfast which tem which is being launched this year we have become soft. The savage cost one-fourth of a cent to cook with at Bonanza. The water will be ob who depends on his scute sense of natural gas, costs nearly three and tained by pumping from Lost River

## STATE NEWS IN BRIEF. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Captain John Peterson, dean of the Columbia River pilots, died at Astoria as the result of a stroke of paralysis. He was born in Sweden in 1856, and was 62 years of age.

German has been banished from the La Grande high school curriculum by the school board, which, at the same Lee Arnett, Portland banker; Max H. 10 per cent to all teachers.

Major Hitchcock and Captain Brown, of the spruce division, aviation section of the United States Signal Corps, spent several days this week inspecting the various spruce camps near Siletz, Toledo and Waldport.

Warren's home guard is fully organwill be sworn in as deputy sheriffs ment is expected shortly and the company is now composed of 65 men.

Major Deich, in command of the state police, has asked Captain O. J. Hull, of Salem, to send 15 or 20 men ing \$20,000 for farm machinery. from Salem as soon as possible to relieve men on guard duty in Portland. Enlistments are now open for the new military organiztion.

It is probable that at least a part of the Eastern Oregon company of the Oregon State Police will be organized Pendleton. Commandant Jacob Veterans, is circulating the application be the reason for planting the first blanks among the members of Malabon crop to that grain.

Conditions were never before more sheep are in as good condition as when taken from the summer range last fall, and as a consequence the quality of the wool will be excellent.

Wialliam W. Hall, formerly pitcher of the Hood River League baseball team and later a star of other Mid-Columbia teams, recently enlisted in a squadron of the Aviation Corps. In a letter to his father, William Hall, he announces that he is training as a flyer at a school at Hempstead, N. Y.

for the adoption of a contract from the being unable to get men. An effort one of the important discoveries of the followed instead of a water-users' as- vest fields this fall, sociation, as has been previously main-

It is the plan of the railroad adminsitration to entrust, as far as possible, It is found today on every front, and to the Interstate Commerce commission and state commissions duties in excellent reason that it has proved in- connection with the control of railroads, according to advices received by the Public Service commission from No. 2 grade, 3c less; No. 3 grade, 6c John Barton Payne, general counsel less. Other grades handled by sample. present used, was the invention of for the Federal board. He asks the Captain von Sigsfeld and Major von commission to advise him as to all

The Polk county grand jury is in session this week looking into alleged Millfeed—Net mill pr officials during the past few months \$776279; rolled oats, \$76. and the grand jury was called for the purpose of probing these charges. \$78. Several citizens have lately been arrested and taken to Portland, from Eastern Oregon timothy, \$29@30 per where they were sent to internment

"The farmers are more scared than clover, \$19@20.00; straw, \$9.00@10. hurt over the possibility of a labor shortage at the time of harvesting firsts, 37c; prints, extras, 42c; car-crops," J. O. Holt, manager of the tons, 1c extra; butterfat, No. 1, 41c Eugene Fruit Growers' association, delivered. said Wednesday. Mr. Holt added that there is an unusually heavy demand @34c; candled, 34@35c; selects, 36c from the East for canned string beans per dozen. this year, but that he is having much difficulty in inducing farmers to plant ducks, 32c; geese, 20c; turkeys, live, these beans for fear that pickers will 26@27c; dressed, 37c per pound. not be available.

Ed Reed was instantly killed at Reedsport while unloading a car of piling. Having some difficulty in get-ting the piling started. Reed was ob-beets, \$2. liged to get in the track of piling as "The work of these craft is too wide they rolled to the water. Before he ty recognized to need repetition, fur could clear one of the timbers struck per pound; sweet potatoes, 10c per ther than to mention the danger to him, pinning him down, and three which a captive balloon is exposed others passed over him, crushing his Onic

A home guard company of 111 men was organized at Dallas Friday even-Wayne Greenwood was elected ing. friendly airplane, or the ever-ready captain, Roy Firseth first lieutenant and J. R. Sibey second lieutenant. Al officers will be sworn in as deputie to Sheriff Orr and the company wil called upon to perform genera police duty as needed. During the summer months the company will alc in fire patrol work.

To C. T. Darley, an engineer and prominent resident of the Bonanza district, has been awarded the con-

# 5500 ACRES BOUGHT

Rich Reclaimed Tract Along Columbia River Brings \$300,000-Oats and Pasturage for First Year,

Fifty-five hundred acres of choice bottom land reclaimed from the Columbia river, near Clatskanie, in Columbia county, Or., has been purchased from the Columbia Agricultural company by a syndicate composed of session, increased all salaries at least Houser, grain exporter and Federal grain administrator for the Northwest; Ralph E. Williams, of Portland and Dallas, and Donald Bell, a New York manufacturer.

The price paid for the property by the syndicate is announced at \$300,000. The deal was closed March 25, but was announced only this week.

At the same time it was announced ized and drilling weekly. The men that 3000 of the 5500 acres are to be seeded at once in oats, so that the first next week by Sheriff Stanwood. Equip- crop may be gathered this year. The purchasers, who have organized the Clatskanie Land company to handle the property, have put up \$50,000 to buy the necessary seed and are spend-

The remainder of the property will be devoted for the present to stock grazing. While plans in this connection have not been announced, it is understood that considerable stock is to be purchased.

The war has resulted in a great demand for oats to feed the great num-Marin, of the United Spanish War lied armies, and this is understood to ber of horses in the American and al-

Later the Clatskanie Land company plans to put the land under intensive favorable for the sheep industry in cultivation, under its own manage-Lake county than at present. Owing ment, for the raising of potatoes and to the exceedingly mild winter the other vegetables in large quantities for the Portland market.

Willard N. Jones is already in charge of the property as manager for the company. The land is said to be one of the richest tracts in Oregon, the soil being peaty and very fertile. It is a part of 10,000 acres that have been diked and reclaimed by the Columbia Argicultural company.

#### Labor Scarce at Walla Walla.

Walla Walla-The farmers' union, assisted by the county agricultural Seventy-two to four was the final agent, has started a campaign to get count in the election affecting water more farm help. There is a shortage. users at Klamath Falls last Saturday One farmer had to stop his plow teams, government, by which a district irri- will be made to have clerks and others gation plan of organization will be who work in the city go into the har-

# NORTHWEST MARKET REPORT

Wheat-Bulk basis for No. 1 grade: Hard white, \$2.05. Soft white, \$2.03. White club, \$2.01. Red Walla, \$1.98.

Flour - Patents, \$10 per barrel; whole wheat, \$9.60; graham, \$9.20; barley flour, \$14.50@15.00; rye flour, \$10.75@12.75; corn meal, white, \$6.50;

Millfeed-Net mill prices, car lots loon from the Beigians. Early in 1915 pro-German statements of number of Bran, \$30.00 per ton; shorts, \$32; citizens. Reports of seditious talk middlings, \$39; mixed cars and less have been coming in fast to the county than carloads, 50c more; rolled barley,

Corn-Whole, \$77 per ton; cracked, Hay - Buying prices, delivered: ton; valley timothy, \$25@26; alfalfa, \$24@24.50; valley grain hay, \$22;

Butter-Cubes, extras, 371c; prime Eggs-Ranch, current receipts,

Poultry - Hens, 28c; broilers, 40c;

Veal-Fancy, 181@19c Pork—Fancy, 23@231c per pound. Sack Vegetables—Carrots, \$1.15 per

Potatoes-Oregon Burbanks, 75c@ per pound; sweet potatoes, 10c per

Onions-Jobbing prices, 1@1#c per pound.

Cattle

April 16, 1918.

ã	Med, to choice steers	11.75@12.25
1	Good to med. steers	10.75@11.75
1	Com. to good steers	9.00@10.00
ß.	Choice cows and heifers.	10.00@11.00
s I I e	Com. to good cows and hf	6.00@ 9.50
3	Canners	3.00@ 5.00
0	Bulls	5,50@ 9,50
	Calves	7.50@12.00
,	Stockers and feeders	6,50@ 9.50
1	Hogs-	
	Prime mixed	17.60@17.75
15	Medium mixed	17.35@17.50
a.	Rough heavies	16,35@16,50
ě	Pigs	15.00@16.00
r	Bulk	17.60
e.	Sheep—	
	Prime spring lambs	20,00
1	Heavy lambs	16.50@18.00
1	Yearlings	15.00@15.25
L	Wathers	13.00@13.50

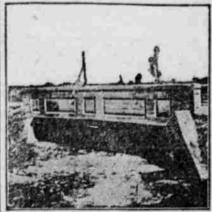
Ewes..... 12.00@12.50

# ·ROAD

GOOD ROADS OF THE FUTURE

Steps Should Be Taken Immediately to Provide New Highways and Keep Them in Condition.

While we have a very considerable milenge of so-called good roads in this country, it is an undoubted fact that the greater portion are not of a character to sustain successfully the heavy notor truck traffic that is now appearing on them, and which will certainly increase rapidly in the near future. To meet the new conditions steps should be at once taken to formulate



Re-enforced Concrete Culvert

systematic plan not only to provide new roads, adapted to the new traffic, but to maintain them in operative condition. Provision should also be made for the re-building of much of the older mileage. What the nature of the construction of these new reads shall be is a matter for the engineers to solve, but there is no question but that there must be better drainage, better material and very much heavier foundations than have ordinarily prevailed in the past, especially as with smooth road surface the speed of these trucks is sure to be greatly increased. England has had her experience in this matter, for, what with heavy traffic added to lack of maintenance, on account of war necessities, there is hardly a main road in the country that is not utterly worn out, although they have been accustomed to build much more heavily than we have in the United States .-Scientific American.

# **GUIDE FOR ROAD ENGINEERS**

Office of Public Roads and Rural Engineering Makes Public Desirable Standards.

(Prepared by the United States Department of Agriculture.)
In order to assist in bringing about a greater uniformity in the highways of the country and to aid the better roads movement in some states, the office of public roads and rural engineering of the United States department of agriculture has published standard forms for specifications, standard methods of testing materials. standard forms for reporting test results, and standard methods of sampling materials. The publication of the standards was made desirable by the necessity for co-operative work by the office and the states in the carrying out of the federal aid conference participated in by representatives of the office of public roads and rural engineering and of a large number of the states. They are published as department bulletin No. 555 of the United States department of agriculture.

### MORE GOOD ROADS REQUIRED

Necessary to Handle Commerce on Account of Inadequate Railroad Transportation.

Railroad transportation is inadequate to handle our commerce, and good roads must be constructed rapidly and comprehensively that truck lines running on regular schedule with stations and terminal facilities, may be established to take care of the immense productions of the land. Production beyond local needs becomes an economic loss if the things produced cannot be delivered to the factory or consumer safely and profitably.

## INTERESTED IN GOOD ROADS

Mileage of Gravel and Stone Highways Increasing-Automobile of Great Assistance.

There is widespread and increasing interest in good roads in Illinois. The main traveled highways especially are wide, well graded and well dragged. The mileage of gravel and stone roads is increasing, and a good deal of hard road of a still more permanent character is being built. The advent of the automobile has done much to make good roads enthusiasts of farmers, and with their active interest the work of improvement is progressing rapidly.