

# WONDERFUL RESULT IN DEVELOPING OF WHEAT ACHIEVED

### Visit to Sherman County Branch Experiment Station Is Made by Superintendent Stephens.

For one of his recent stories Zane Grey chose the seemingly paradoxical but striking title, "The Desert of Wheat." The setting for this story appropriately could have been anywhere in Sherman county for this county now is veritably a desert of wheat. After a trip by automobile up the beautiful Columbia highway, the average Willamette valley inhabitant is impressed with the dry, desert-like appearance of the rolling hills of Eastern Oregon, at this time of year a gray and gold checker-board of summer fallow and wheat.

A party composed of Messrs. J. K. Weatherford, Alban C. H. Hely and Jefferson Myers of Portland, in the official capacity of a committee of the board of regents of the Oregon Agricultural college, had the pleasure of making this trip recently for the purpose of inspecting the Hood River and Sherman county branch experiment stations.

After leaving the incomparably beautiful Hood River valley and spending the evening at Pat Foster's home at The Dalles, the trip to Moro was made by automobile in the early morning. Upon arrival at Moro the party was taken in charge by Superintendent E. Stephens, who explained the work of the Sherman county branch experiment station and the results accomplished.

**MAIN DRY LAND CROP**  
Under arid and semi-arid conditions, wheat has always been a leading agricultural crop. In Eastern Oregon, where the annual precipitation varies from 8 to 20 inches, wheat has been found to be the farmer's best paying crop. In view of this the station workers have devoted a great deal of time to finding out the best varieties of wheat to grow, to producing high yielding and more disease resistant varieties, and to determining the best methods of soil cultivation to get maximum wheat yields.

Through the office of cereal investigation of the United States Department of Agriculture, which maintains the Sherman county branch station cooperatively with the Oregon Agricultural experiment station, practically every known variety of wheat in the world has been obtained and tried out at Moro. This year in his nursery rows of experimental plots Superintendent Stephens has more than 800 varieties of wheat growing. Similar work is also being done with barley and oats but not on as extensive a scale as with wheat.

**DISCOVERIES ARE MADE**  
In the varietal testing and wheat improvement work, several important discoveries have been made. These have proved of great value to dry farmers of Eastern Oregon. Superior strains of Turkey wheat, notably Kharkov and Turkey No. 1711, have been found to yield from three to four bushels more than commonly grown winter wheat varieties for an average of nine years. These varieties have been distributed to farmers by the station and a large part of the immense acreage of Turkey wheat now grown in Sherman county is from seed originally distributed from the station. Normally Sherman county produces from 2,000,000 to 2,500,000 bushels of wheat, more than 2,000,000 bushels of which is Turkey. It is estimated that the yield of Turkey wheat in Sherman county has been increased at least 10 per cent by the introduction of superior strains by the station. This means to the farmers an annual net gain of \$300,000 at the present price of \$1 a bushel for winter wheat.

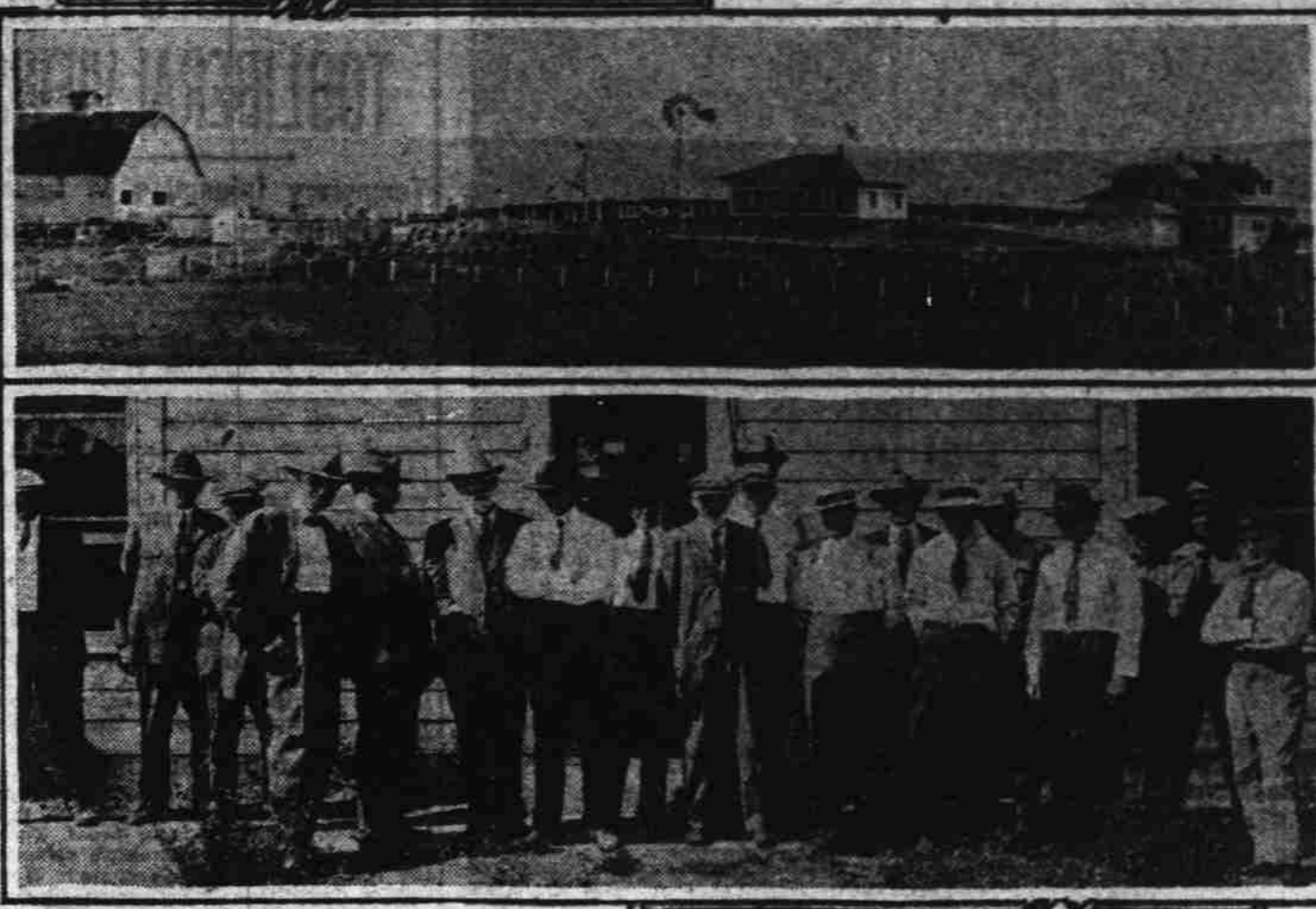
Eastern Oregon produces a great deal more winter wheat than any other wheat. The production of spring wheat, however, is quite important because spring wheat, though not as profitable as winter wheat, must be raised in the spring because of adverse autumn conditions which prevent the planting of winter wheat. In the spring wheat varietal trials at Moro, some new varieties imported from Australia have proved to be exceptionally high yielders.

**HUNDREDS OF HYBRIDS**  
In the wheat breeding nursery at the Moro station there are hundreds of new hybrids and selections under test which promise to be even better than the best varieties now on trial. It takes from six to seven years of careful work to produce a new wheat by hybridization and then six years more to test it for yield before its real value can be accurately determined. This makes necessary a great amount of careful, painstaking work, but that such work really pays the farmer has been amply demonstrated by this branch station.

Plants, like animals, are subject to disease. The most serious wheat disease in the Western states is bunt, or stinking smut. This disease is so prevalent that every farmer must take the precaution to carefully treat or disinfect his seed before planting with some spore-killing fungicide like copper sulphate or formaldehyde.

**EXPERIMENTS IN TILLING**  
The practice of summer fallowing in growing wheat has been followed by farmers in Eastern Oregon for about 30 years. There is yet, however, no agreement among farmers as to the best methods of cultivation to conserve moisture and make available the right amounts of plant food to produce maximum yields of wheat. Whether it is to disk or stubble ground in the fall or in the spring or not disk it at all; whether it pays to plow deep, medium deep or shallow; whether it pays to frequently cultivate the summer fallowed ground after plow-

## BETTER WHEAT AND MORE OF IT IS PURPOSE



Above, Moro branch station. Below, members of board of regents of Oregon Agricultural college, county agents and others at Moro station.

ing; whether it pays to use subsurface or surface packers, are only a few of the disputed questions among farmers in this section. The Sherman county branch station now has available accurate data of yields of winter wheat obtained after many different methods of soil cultivation including different dates and depths of plowing and different methods of handling summer fallow. Some really striking and important discoveries have been made in this connection which are now being rapidly adopted by farmers of this section. As a concrete example, before the station demonstrated that it did not pay, nearly all farmers of Eastern Oregon harvested winter wheat in the spring. In Sherman county alone there are usually about 120,000 acres of winter wheat which the farmers used to harvest at a cost of about 15 cents an acre and at a reduction in yield of about two bushels of wheat.

Perhaps one of the most valuable discoveries made by the station in connection with correct tillage methods for growing wheat is the fact that higher yields of winter wheat are nearly always obtained after early spring-plowed summer fallow. The following figures give the average yields of winter wheat obtained during the past nine years in the date of plowing experiments on the station.

**AVERAGE YIELDS**  
After summer fallow plowed, April 1, 30 bushels per acre; after summer fallow plowed, May 1, 23.5 bushels per acre; after summer fallow plowed, June 1, 24.5 bushels per acre; after summer fallow plowed early in the fall when the soil is dry, 27.5 bushels per acre; after summer fallow plowed late in the fall when the soil is wet, 26 bushels per acre.

In addition to finding out yields from different methods of cultivation, accurate data are being compiled upon the moisture of the soil for a depth of six feet as influenced by different cultural treatments. In this connection also it has been found that the plant foods of the soil, especially nitrate-nitrogen, vary greatly with the different cultural treatments and are unquestionably a big factor in influencing wheat yields. During the past two years a trained chemist has been employed to make nitrate determinations and it is expected some valuable information will soon be available on how different methods of handling the soil will influence the accumulation of nitrate-nitrogen in the soil and how this in turn will influence the yields and quality of winter wheat.

**Sleepy Juror O. K.'s Verdict to Hang**  
Pepper Bluff, Mo., Aug. 20.—(I. N. S.) Asop Asop was on trial for alleged theft of hogs. The jury had sweated through out the day as testimony was presented. One member was so drowsy when the taleman retired to deliberate that he fell asleep. The 11 other jurors decided the fate of Asop. "John," said the foreman of the jury, awakening the slumbering taleman, "we have decided to hang Asop. What do you think about it?" "Suits me," drawled John, yawning "but let the execution be delayed until Asop finishes his crop." Asop was acquitted.

**Fair Weather Is Promised for Coast**  
Washington, Aug. 20.—(U. P.)—Weekly forecast August 22 to 27 inclusive: Pacific states—Generally fair weather and normal temperature.

**Turtle Packs Name On Back 42 Years**  
Sci. Ohio, Aug. 20.—(U. P.)—W. E. Cunningham, local merchant, cut his name on a turtle in 1879. The turtle has been found by a resident near the spot where the knife was used on its back.

**Barnum Was Right; One Every Minute**  
Springfield, Mass., Aug. 20.—Barnum's contention that there "is one born every minute" was given some confirmation here recently. John H. Sakell of this city was induced by two strangers to deposit \$500 in a "money making machine," equipped with numerous cogs, wheels and gears. The machine was also fed some blank paper. Sakell was told that in an hour the machine would turn out \$1000 in bona fide legal tender. The strangers had departed at the end of the hour—so had John's \$500.

**Vienna Sees Drop in High Cost of Living**  
Vienna, Aug. 20.—(I. N. S.)—Has Vienna's soaring H. C. L. reached the zenith? anxiously inquires the Vienna Neue Freie Presse, in proclaiming the good news that for the first time in years a turn has come in prices. Potatoes and sugar are cheaper; there are indications that other foodstuffs will fall.

**Details**  
Those who seek our service discover that we are competent to arrange all the details. We discharge the responsibility in a highly satisfactory manner.

**MILLER & TRACY**  
Main 2691 Independent Funeral Directors, Aut. 578-85  
Washington at Ellis St., Bet. Twentieth and Twenty-first Sts., West Side

## Albany Collector Wins Fame Finds Rare Fossil Remains

### J. G. Crawford, at Age of 71, Has Time and Energy to Make Important Scientific Discoveries.

Harrisburg, Or., Aug. 20.—Known to the faculty at the Smithsonian institute and to half a dozen other famous institutions as an enthusiastic collector of fossil remains, J. G. Crawford is still intent on his life's hobby.

He was born in Hancock county, Illinois, in 1850, and came to Oregon in 1852, settling in Albany, where he has lived ever since. He is a photographer by profession, but his heart is in his research work.

Among his more important discoveries may be mentioned the perfect skull of the Mesopithecus bipedus beaked whale, of which rare mammal there is only one other fragment in the United States, and that is not very perfect. For the whale's skull, Crawford was highly commended by many eminent zoologists all over the country. His researches near Albany have led him to uncover the mysterious mounds found in that vicinity with the consequence that he established the fact that the early inhabitants of this country were shallow worshippers and cannibals. Also he found a stone mortar peculiarly flattened, of which it is said that there is only one other specimen in this hemisphere. The mortar is of an old Brazilian pattern.

Perhaps Crawford's most amazing discovery is a human skull, of which only three fragments are preserved and which, according to the measurement of local savants, is lower in type than the famous Pithecanthropus Erectus. Should this be definitely proved the consequences will be far reaching, as every student may guess. The matter is in the hands of the Smithsonian institute, to whom the skull has been sent. Crawford may later publish a book on his discoveries.

**Briand's Intention To Attend Conference Is Cause of Protest**  
By Hudson Hawley  
United News Staff Correspondent.  
Paris, Aug. 20.—Premier Briand's reported decision to attend the Washington armament conference has brought out vigorous protests from his friends and enemies—who declare that there are "serious reasons" from the French viewpoint why the premier should not leave the country.

George Lechartier, for years the Petit Parisien's correspondent at the American capital, and now editor of the Journal des Debats, is one of those who reiterates a strong warning against the trip. After declaring that the foreign office refuses to confirm or deny Briand's intention to attend, he goes on to say: "A denial was to have been wished for. We have already shown many of the reasons which, from French viewpoint, out to dissuade him from going. The United States desires above all to avoid at the coming conference everything that would recall the errors of the Paris conference. And the greatest error of that meeting was the gathering of the United States delegates without consulting their own governments of public opinion at home, these questions of national and world wide interest."

There is, besides, the natural handicap of the premier's ignorance of the English language, and the setting of the conference in the midst of Anglo-Saxon surroundings here, the principal interested parties will be English."

**Vienna Sees Drop in High Cost of Living**  
Vienna, Aug. 20.—(I. N. S.)—Has Vienna's soaring H. C. L. reached the zenith? anxiously inquires the Vienna Neue Freie Presse, in proclaiming the good news that for the first time in years a turn has come in prices. Potatoes and sugar are cheaper; there are indications that other foodstuffs will fall.

**GUARANTEED REBUILT**  
**Typewriters**  
BELOW PRE-WAR PRICES

|                      |         |
|----------------------|---------|
| Model 5 Under-woods  | \$55.00 |
| Model 4 Under-woods  | 47.50   |
| Model 10 Remingtons  | 50.00   |
| Model 8 L. C. Smiths | 47.50   |

Terms if Desired. All Makes Rented.

**Wholesale Typewriter Company**  
251 WASHINGTON ST.  
Phone MAIN 1681. Portland, Or.

## OREGON MAN SEES VAST CHANGES IN HIS NATIVE NORWAY

### P. A. Finseth Returns From Trip to Old Country; Depression in Business Follows War Activity.

Many changes toward progress and modernization were observed by P. A. Finseth, prominent Dallas merchant, on his first visit to his native Norway since he landed in Oregon 30 years ago. Finseth returned Thursday night after an absence of four months. He found many relatives at his home town of Trondheim, but spent much time at Christiansia, capital of the Scandinavian kingdom.

"Prohibition has had a peculiar effect on Norway's fishing industry," Finseth said. "Although prohibition is by no means so drastic as it is in America, it is illegal to buy or sell spirituous beverages, light wines and beers being allowed. Spain formerly supplied most of the strong drink consumed by the Norwegians and also bought Norwegian fish. Now that importations of liquor are under the ban, Spain has practically boycotted Norway's fish."

"I found the people of Norway living just about the same as we do in Amer-

ica. They wear good clothes, eat good food, live in good houses and enjoy the good entertainments that Americans do. They think about the same things and have the same hopes. Norway prospered through the war period and high wages were the rule. What happened here about is happening there—trade is only fair. The workmen spent most of the summer on a general strike which started with the shipping industry because of threatened wage reductions and spread, through sympathy, to almost all the trades and crafts.

Although people are spending freely, they are not entering into new obligations until they find out when and how the business depression is going to be relieved. Rates of exchange make imports from America difficult and slow and there is little foreign buying.

"Norway depends mostly upon its fishing and its lumber industries for prosperity. Both these are down now but the impression is that times are getting better."

**HOUSING CONDITIONS POOR**  
"Just as in America, housing conditions in the cities are unfavorable. The cost of building being so high that the people cannot afford to build new homes."

"Norway is now trying to capitalize another industry—the tourist industry. It is only recently that it was discovered and appreciated, rather, what wonderful attractions the mountains and forests and fjords hold out to the tourist. Some of the most magnificent scenery in Europe is to be found there, second only to the Alpine scenery of Switzerland. Now Norway is advertising these wonderful sights all over Europe and tourists are coming there by thousands."

Finseth visited in Sweden, Denmark and England during his European trip.

## Parts of Illinois And Wisconsin Get Real Hard Ducking

### Chicago, Aug. 20.—(I. N. S.)—Northern Illinois and Southern Wisconsin are "drying out" today after one of the most severe rainstorms in recent years. Lightning accompanied the rain and caused further damage by striking down and causing numerous fires. No loss of life has been reported.

In parts of Wisconsin the storm bordered on a tornado. A building at the golf club in Madison collapsed and injured several caddies. The towns of Watford, Burlington, Brownlake and Elkhorst were darkened when the storm crippled the lighting service.

In Chicago hundreds of basements were flooded and viaducts were inundated. Basement cells in the Englewood police station were flooded and prisoners had to be removed. Electric light and telephone services were demoralized in many sections of the city. A score of fires are attributed to bolts of lightning.

**BARRACKS SERVICES ANNOUNCED**  
Vancouver, Wash., Aug. 20.—Chaplain Burton F. Bronson will hold Sunday morning services at the barracks at 10 o'clock in Service Club No. 1. His sermon topic is "Camping on Dangerous Grounds." According to the latest information, the Chaplain's Service school, which Chaplain Bronson will attend this fall, will open September 20 at Camp Knox, Ky., continuing for 12 weeks.

## Broken Heart Said To Be Young King's Most Serious Ill

### By Newton C. Parks Paris, Aug. 20.—(I. N. S.)—Romance was injected today into the mystery that veils the illness of young King Alexander.

A report gained circulation that Alexander's illness is due to his being jilted by Princess Sophia, eldest daughter of the Duke of Vendome, member of the Orleans family. This story came on the heels of an official denial by the Serbian legation of reports that Alexander was engaged to marry Sophia.

Acting Minister Tankovitch declared that the king never saw Princess Sophia. He refused to add anything to this statement, although it is well known to newspapermen in Paris that Alexander did meet her at Divonne-les-Bains and was seen with her frequently. The king's illness was first reported that they were engaged, no contradiction was made in official Serbian circles. Later it was rumored that the princess had broken off the engagement and that Alexander was "broken-hearted."

The princess could not be located today. Alexander's physicians denied all stories that he is suffering from any poison. They added to the mystery, however, by denying the report of the legation that he was operated on yesterday. Again, the legation mystified inquirers with a statement that the king's kidney trouble has been complicated by other ailments, without, however, revealing what these ailments are.

The king's doctors declared he had passed a good night.

LET US SEND A HOOVER ELECTRIC SWEEPER TO YOUR HOME

## Our August Sales of Furniture Are Making Many "Better Homes!"

Largest, Newest Stocks! Lowest Prices! Most Liberal Credit!  
Take Advantage of Our Resources, Our Experience, and Our Service

### Seamless Brussels Rugs

9x12 Size  
Regular Price \$35  
**\$26.75**

Here are rugs suitable for any room in the home, and in variety of patterns so great that every desire may be gratified. See them on the second floor!

### Living-Room Suite

QUEEN ANNE PERIOD  
Three fine pieces, upholstered in blue and gold velour; best web construction; handsomely finished. Special reduced prices are as follows:  
Full-size Davenport \$175  
Easy Chair \$85 Easy Rocker \$100  
See This Suite in Washington-street Window

### Mahogany Dining Suite

Less Than Half Price!  
We have only one suite in this style. There are ten fine pieces—Buffet, Extension Table, Serving Table, China Closet, five Diners and a Carver. For this week only, we offer this suite for less than half price.  
Regular Price \$1028  
**Now \$500**

### Three-Piece Ivory Enamel Bedroom Suite

Special  
Only \$67.55  
Three perfectly matched pieces—Full size Bed, Dresser and Dressing Table. A bargain!  
Going Camping?  
Gray Wool Camp Blankets  
62x84 Inches  
Regular price \$4.75  
**\$2.95**  
CAMP PILLOWS 65c

### Handsome Bedroom Suite

IN AMERICAN WALNUT  
Regular Price \$735  
**\$485**  
There are four pieces in this fine suite—Full-size Bed, Chifferobe, Vanity Dresser and Dressing Table. See it in our Washington-street window.

### Drapery Department

Here we show wide assortments of draperies, cretonnes, curtains, etc. We gladly furnish estimates for any interior work you may need. We constantly maintain an experienced, highly skilled force of workmen in this department.

## Jenning's The Home Furniture

Complete Home Furnishers WASHINGTON AT FIFTH Nine Floors of Furniture