

M'CONNELL ADVISES THE STATE NOT TO QUIT

Special Investigator Declares Litigation in School and Swamp Land Case Against Pacific Live Stock Com- pany Can be Won. The Attorney General Will Investigate Further

A late Salem dispatch to the Journal says: C. B. McConnell has addressed to the state land board an extended statement in which he urges the board to continue the prosecution of the suit against the Pacific Live Stock company to recover school lands secured by fraud. McConnell has been gathering evidence for the state and last year was appointed special counsel to assist the attorney general in the case. He points out in his letter to the board that he stands ready to prove that 95 per cent of the people of Harney county are desirous that the case be continued and tried in the courts.

McConnell charges in his letter that the Pacific Live Stock company has blocked efforts to secure irrigation on Silvie river and that the only way it will be secured is by organization of irrigation districts under the complete control of the owners of land. He has inaugurated proceedings to adjudicate the water rights and contends that at least 150,000 acres can be properly watered from the Silvie river and about 50,000 acres of swamp land be reclaimed by controlling the waters. The superintendent of the Pacific Live Stock company, asserts McConnell, says no reclamation project can be put in until the company is ready for it and at the company owns water on both ends of the proposed district, it has it bottled up. By holding off the flood waters in the early spring and distributing them during the growing season, a great area can be served, it is contended. The company according to McConnell, has persistently fought the proposition to adjudicate water rights.

McConnell points out that if the suit against the company is won and title is again secured by the state and the reclamation plans go through, the school fund will be increased at least \$50,000. McConnell's statement to the

sonable prospects of winning this suit, according to Attorney General Brown. The state land board decided to abide by the attorney general's recommendations and he has begun his investigations. The suit alleges that the lands were obtained through "dummy" entrymen. Investigation will have to be made as to whether these entrymen are available as witnesses, and, if so, what their testimony will be. A number of them are dead, the whereabouts of some is unknown and some are scattered throughout the country.

LATEST DEVELOPMENT LEAGUE NOTES

(From Our Portland Correspondent)

Unless there is a rearrangement of present plans, the Celilo Canal will be opened for the passage of boats for five days in April, probably between the 10th and 15th, and it is expected that a number of steamers now on the upper river will be brought to Portland for overhauling and two or more boats will carry freight from Portland to Pasco, Kennewick and other points. Construction work on the canal is practically finished, but little remaining to be done except to clean out an accumulation of and to build a few bridges for the accommodation of owners of fish wheels and two for the passage of teams. The canal is being finished several weeks earlier than was expected, and it will probably be opened permanently for navigation on May 1st.

Owners of high grade livestock in this state will have a number of opportunities next Fall to show off their prize animals, four very important events being already on the list. Early in November will be held the Western National Dairy Show at Seattle, to be closely followed by the Cascade International Stock Show at North Yakima. The first week in December the Northwest Livestock Show will be held at Lewiston, Idaho, while the Fifth Annual Pacific International Livestock Exposition will be held at Portland, December 6 to 11. Breeders' associations in the east and Middle West are taking great interest in these events and are making unusually liberal appropriations to help out on the premium list.

In order to induce a great number of tourists to visit Oregon this year, automobile clubs and the various business organizations throughout the Northwest are planning to send invitations to similar associations throughout the east and Middle West to include Portland, the Columbia Highway and the Pacific Highway territory in their itineraries. The Portland Automobile Club is preparing a new tourist book, for general distribution, which will contain a vast amount of descriptive matter and will be illustrated with cuts of some of the most attractive scenery within reach of the motorist.

"Farm Lands in Oregon", is the title of a booklet just issued by the Farm Land Bureau of the Oregon Development League. It contains a list of several hundred farms and small pieces of land for sale, with prices and terms. It is designed to bring together owners of land and prospective buyers without the intervention of middlemen or agents. Copies will be mailed to those interested.

REVISED GAME CODE IN BRIEF FOR SPORTS

Enactments of Last Session of Legisla- ture Effecting Open and Closed Seasons Given for Benefit of Local Sportsmen. Kansas Judge Decides The Federal Law Unconstitutional

Although the federal migratory bird law was declared unconstitutional by a judge in the United States district court in Kansas the other day, local sports should not be too hasty in taking this decision as final. The United States district attorney in charge of this particular case announced it would be appealed to the United States supreme court. Until this last court passes upon it the fellow who doesn't obey the law as it now stands is liable to get into trouble.

Several changes in the state game laws will go into effect on May 22, when the enactments of the last session of the legislature become parts of the statutes of Oregon. These changes effect nearly all the provisions of the former code, making the old law more drastic in some cases, and in other cases giving the sportsmen more leeway.

Open season for different kinds of game under the new provisions are as follows in the district comprising all counties east of the Cascade mountains, all dates given being inclusive:

Buck deer with horns—August 15 to October 31.

Silver gray squirrels—Season closed in Hood River and Wasco counties by order of the state board of fish and game commissioners.

Ducks and geese—October 1 to January 15. (Federal law.)

Rails and coots—October 1 to January 15. (Federal law.)

Shore birds, black-breasted and golden plover, Wilson or jack-snipe, woodcock and greater and lesser yellow legs—October 1 to December 15. (Federal law.)

Chinese pheasants—Open season in Union county, October 1 to October 10. Closed at all times in other counties.

Grouse—August 15 to October 31.

Prairie chickens—Open season in Sherman, Union and Wasco counties, October 1 to October 15. Closed at all times in other counties.

Sage hens—July 15 to August 31.

Quail—Open season in Klamath county, October 1 to October 10. Closed at all times in other counties.

Doves—September 1 to October 31.

The amount of game allowed to be taken in any one day, or in any week or season, is changed from former provisions, and the new bag limits are:

Buck deer with horns—Three during any season.

Silver gray squirrels—Five in any seven consecutive days.

Duck, geese, rails, coots and shore birds—30 in any seven consecutive days.

Chinese pheasants, native pheasants and grouse—Five in any one day, including one female Chinese pheasant, and ten in any seven consecutive days, including two female Chinese pheasants.

Prairie chickens and sage hens—Five in one day and ten in any seven consecutive days.

Quail—Ten in any seven consecutive days.

Doves—Ten in one day or 20 in any seven consecutive days.

Geese killed in Wasco, Sherman, Gilliam, Harney, Crook, Morrow and Umatilla counties may be sold after having metal tags attached.

Changes in the laws regarding fishing are as follows in both eastern and western Oregon:

Trout over six inches—April 1 to October 31, bag limit, 75 fish or 50 pounds in any one day.

Trout over ten inches—All the year; bag limit, 50 fish or 50 pounds in one day.

Bass, crappies, Williamson's whitefish, catfish and graylings—All year; bag limit, 40 pounds in one day.

"Yanks" in Wallowa lake—All year, except September 15 to October 10; bag limit, 50 pounds in one day.

Miscellaneous provisions of the amended game laws provide that Civil war veterans may obtain licenses for hunting free from county clerks only. Proof of service must be furnished with the application.

No fishing license is required angling in salt water when non-game fish are sought.

No license is required for women to hunt or angle within the borders of the state.

It is unlawful to kill mountain sheep, antelope, elk, beaver, female deer, spotted fawn, silver pheasants, golden pheasants, Reeves' pheasants, English partridge, Hungarian partridge, Franklin grouse or fool hen, bobwhite quail, swan, wood duck, wild turkey, eastern sandpiper, western sandpiper, solitary sandpiper, semi-palmated plover, snowy plover, and all other birds of any kind, except those on which there is an open season. The following are not protected at any time: Duck hawk, sharp-shinned hawk, prairie falcon, goshawk, English sparrow, great horned owl, northern shrike, cormorants, American magpie, crows and ravens, magpies and blue jays.

Education by Parker.
Literature, English—Two-thirds from English Literature by William J. Long, and one-third from the English classics listed below.

Physics—A First Course in Physics by Millikan and Gale.
Chemistry—McPherson and Henderson. (For graduates of non-standard colleges or universities only.)
American Classics: Thoreau, Walden, Longmans, 25 cts.; Macmillan, 25 cts. (No. 2559, State List II.)
Lowell. Selected essays, including estimates of Lowell's literary work and biographical facts Houghton, 60 cts. (Riverside literature series.)
English Classics: Carlyle, On heroes, hero-worship and the heroic in history. Longmans 25 cts. (No. 2519, State List II.)
Palgrave. The Golden Treasury (at least the selections from the poets included in Lowell's "Literary essay," given above under American classics.) Longmans, 30 cts.; Macmillan, 25 cts. (No. 2539, State List II.)

Potato Seed Treatment a Cheap Crop Insurance

"In taking up the matter of seed treatment for disease control, several questions present themselves for consideration," according to F. D. Bailey, research assistant in Plant Pathology, Oregon Agricultural College. "This being the time when many growers are especially interested in the following recommendations are submitted in answer to queries that are constantly recurring:

"Disease that can be controlled entirely or largely by proper treating and inspection of seed at cutting are, common scab, rhizoctonia, blackleg and the two fungus wilts. This of course with the understanding that the soil to be used has not produced crops with any of these diseases in recent years and has had no other chance to become diseased.

"Tubers that are bruised, cracked or discolored, or show a brown ring when the stem end is cut across should be sorted out and discarded from the seed. In case scab is the principal trouble for which seed is to be treated, it will be quite satisfactory to use the formaldehyde treatment; "One pint formalin in 30 gallons water, soaking seed with sacks or crates for two hours, and then drying seed thoroughly. This should preferably be done immediately before planting; however, if it is desirable to start sprouts before planting it will be necessary to give the treatment somewhat earlier. Care should be taken not to re-infect the tubers by placing them back in the same storage place unless it, too, is disinfected. In any case, at the present state of experimental evidences it is advisable to treat before cutting.

"A substance that is more satisfactory than formalin in that it is effective against rhizoctonia as well as scab is mercuric chloride (corrosive sublimate). This poisonous substance may be secured in the form of white crystals from the large drug companies, the smaller stores generally carrying it only in tablet form. This should be used in 1 to 1000 dilution or 4 ounces in 30 gallons of water where the crystals are used. If the tablets are used the directions should be followed. In making this up for use the amount to be used should be carefully weighed out and dissolved in a small quantity of hot water. This must be done in a clean wooden or porcelain container and after diluting it must be handled in the same way, since it reacts with metals. The treatment from this point is the same as with formaldehyde, except that tubers should be soaked 1 1/2 hours. It should also be borne in mind that this substance is poisonous so should be kept away from small children or stock.

"Either solution may be used several times (not to exceed four). The formaldehyde loses strength on standing and the mercuric chloride gradually deteriorates when it becomes dirty. A gas treatment with formalin may be used where large quantities of potatoes are to be treated but requires special precautions, details of which will be furnished parties interested on application to the department of Plant Pathology at A. O. C."

COMPARATIVE YIELDS OF OATS AT STATION

Supt. Breithaupt Shows the Yields of Different Varieties With Comment Pertinent to Subject. Results Are Favorable to Selected Seed. Date of Seeding Considered Important

BY L. R. BREITHAUPT, SUPT.
3-24-15.

The following table of yields from fifteen oats varieties planted on the twentieth acre plots on the Experiment Station in 1914, while not indicative of record breaking yields, will doubtless furnish some information of interest to dry farmers of this and other Central Oregon counties:

Variety	Actual Compt'd Yield	Yield
Sixty Day 62-11-19-2	19.62	19.62
Kherson	16.87	17.67
Sixty Day 165	16.69	17.38
Silvermine	14.06	13.43
Big Four	13.75	12.51
Black American	12.34	11.85
Sweedish Select No. 1	12.81	11.73
Local No. 1	11.79	11.26
Sweedish Select No. 2	13.44	11.06
Rustless	11.25	10.84
Shadeland Climax	9.37	10.23
Great Dane	12.19	10.68
Early Mountain	11.25	9.58
Siberian	8.75	8.79
White Russian	10.00	8.46
Sixty Day 62-11-19-2	19.62	19.62

Here the advantage seems to be slightly in favor of the earlier seeding and it is probable that April 20 to 25 is about the right time for seeding so early a variety as the Sixty Day. Later maturing varieties might be seeded a few days earlier but it is not advisable to seed so early that the plants will have formed culms before the latter part of June as a frost will do much more damage when the grain is in the boot or heading than if it is still stooling.

A good many people object to Sixty Day oats because of the grains being small and "shoe pegged." In this connection it might be well to remember that oats are sold by the pound and the yield per acre are measured by pounds (32 pounds makes one bushel) and it is the oat that yields the greatest number of pounds per acre that will feed the most horses and put the most dollars in the farmers pocket, not the one which happens to weigh three or four more pounds per measured bushel, perhaps, because it has a thicker more indigestible husk on it.

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Rate per Acre	Actual Compt'd Yield	Yield
6 pecks	20.63	26.14
4 pecks	17.19	19.62
2 pecks	19.06	25.58

Discounting for extra seed used this is in favor of the two peck seeding. However there is evi-

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Departs	Arrives
No. 2, Prairie 10:15 A. M.	Sumpter 2:35 P. M.
Sumpter 4:00 P. M.	Baker 4:00 P. M.

Departs No. 1, Baker 8:30 A. M.
Sumpter 10:05 A. M.
Arrives Prairie 2:10 P. M.

No. 1 Makes good connection with O. W. R. & N. Co. No. 4 (Fast Mail) leaving Portland 6:30 P. M., arriving at Baker 7:55 A. M. and No. 17 from east arriving Baker 6:50 A. M.

No. 2 connects with No. 5 (Fast Mail) arriving at Baker 7:55 P. M. which picks up Pullman at Baker, arriving at Portland 7:00 A. M. Also with No. 18 at 10:45 P. M. for points East.

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