

# FARM CO-OPERATIVE DIVISION

A MESSAGE TO EVERY MEMBER.

## CONCRETE—MADE OF SAWDUST AND CEMENT

By RUSSELL R. SKELTON  
Associate Professor of Civil Engineering.

Cement-sawdust concrete is an economical, light-weight, water and fire resistant material, possessing warm and resilient properties, all of which render the product adaptable to a wide range of structural uses.

Following several years of research and experimentation with the product, to determine its many uses and physical properties, the author offers the results to the public since numerous requests have been received for information concerning the use of the material.

Cement-sawdust concrete is composed of a mixture of Portland cement, sawdust and water in predetermined proportions. The general appearance is the same as an ordinary cement-sand mortar except that it is light and fluffy. This fluffy condition is of distinct value since it adds to the light weight and placement qualities of the material. The finished product will vary in weight and surface texture according to the proportions, an average weight being about 45 pounds per cubic foot, or about one-third that of ordinary concrete.

The finished product is water repellent, is easily finished to a smooth surface and is relatively resistant to abrasion. The material is fire resistant and will not support combustion; tests prove that it will withstand temperatures up to 250 degrees F. without detrimental effects.

The resilient quality of the material is due to the somewhat porous character of the mixture. Resilience is very desirable for poultry houses and dairy barns since the floors of such buildings should possess good shock-absorbing properties.

Another desirable quality of the material is the ease with which it can be cut after it has hardened. It can be sawed with an ordinary carpenter saw and it will hold nails or screws. These qualities indicate the possibilities of its use where precast units may be fitted around pipes and timbers and into special places.

### Materials

The materials recommended for use in obtaining the best results consist of Portland cement, sawdust and water. The cement may be of any commercial brand readily obtained in all localities; however, it should be new, dry and free from lumps.

The sawdust should be of that quality obtained from the main saw, rather coarse in size and not less than one year old. White pine, spruce or hemlock sawdust is preferable. Hardwood sawdust is not recommended since the grains are likely to be too small and too uniform in size. Sawdust obtained from the resaw, or from factories or mills should never be used because the grains are too small.

The sawdust should be screened through an ordinary mason screen, in order to remove the larger pieces of stringy bark. The mesh of the screen should not be less than one-fourth inch.

The water used for mixing should be clean, and preferably from a supply used for drinking or watering purposes.

### Equipment

The equipment required consists of a power-driven concrete mixer, a metal wheelbarrow, buckets, bushel baskets, a wooden float, a steel float and a light wooden tamping.

It is absolutely necessary that the material be mixed in a power-driven mixer, in order to achieve the desired results peculiar to cement-sawdust concrete. Any size or type mixer will suffice; however, a one-fourth bag mixer is recommended as adequate for small jobs.

Buckets of known capacity are required to measure the exact amount of water and cement required for the mixture, and bushel baskets or other measures may be used to measure the sawdust.

A wooden float and a steel float are required to impart the proper finish. The wooden float should be used first to obtain the preliminary surface and a steel float should be used to obtain the final finish.

Some form of a light wooden tamping should be made and used to compact the material previous to the finishing operations. It should not be too heavy and may easily be constructed from materials available on the farm.

### Poultry House Floors.

Many poultry breeders find from

time to time that the wood floors of their poultry houses need replacement before the remainder of the structure has outlived its usefulness. Wood floors hold dampness, they are difficult to clean and they are not vermin and rodent proof. Cement-sawdust concrete has proved to be an ideal material because of the advantages of economy and ease of placement, warmth, light weight, water and fire resistance.

(The balance of Mr. Skelton's article will appear in next weeks issue.)

### CANNING SCHEDULE FROM SEPT. 11 to 16

8 to 11 a. m.	12 to 3:30
Mon.—Fish	Fish
Tues.—Fruit-Tomatoes	Corn-Beans
Wed.—Fish	Fish
Thurs.—Fruit-Tomatoes	Corn-Beans
Fri.—Fish	Fish
Sat.—Fruit-Tomatoes	Corn-Beans

Other products canned by special arrangement.

There will be a load of fish at the cannery Monday, September 11. Be here to get yours.

Hermiston Co-op Cannery

## COLUMBIA NEWS

(Continued from page 1)

Miss Myrthena Martin arrived from Madras Sunday night to resume her duties as teacher in the Columbia school. She will make her home with Mr. and Mrs. Edward Shaw during the school year.

Mr. and Mrs. C. L. Upham left Sunday for Gaston where they will visit their daughter, Mrs. Laurance Hart and family. They will also attend the state fair. James Barber is doing their chores while they are away.

Mr. and Mrs. Roy Rogers and family were Pendleton business visitors the latter part of last week.

The Townsend club enjoyed a picnic at the L. W. Dixon home Sunday. Mr. Despain of Pendleton was the speaker.

Mr. Mochring of Toppenish, Wn., cousin of John O. Gray was a Labor Day visitor at the Gray home.

Mr. and Mrs. Chambers, parents of Mr. U. A. Wilson and two cousins, Mr. and Mrs. Chas. Chambers, were recent visitors at the Wilson home.

Mr. and Mrs. J. H. Roundtree of Klaber, Wn., will spend ten days with their daughter and family, Mr. and Mrs. Elmer Dixon.

Mrs. L. W. Douglas returned last week from a ten day visit at Marshfield, Oregon.

Miss Grace Pearson spent Saturday afternoon visiting Miss Marjory Gray.

Visitors at the Baxter Hutchison home Sunday evening were Mr. and Mrs. L. W. Douglas, Mr. and Mrs. Elbert Hutchison and Mr. and Mrs. Dan Bittner and Dorothy Depew of Pendleton.

Charles Kik and Eugene Rugg gave the electric poultry brooder demonstration at Columbia Grange Tuesday night. They are to give the same demonstration at state fair this week.

## IRRIGON NEWS ITEMS

By Mrs. W. C. Isom

Earl Rand of Portland visited his parents, Mr. and Mrs. Geo. Rand last week. His son Alvin, who has been visiting his grandparents several weeks, returned home with him.

Mrs. Josephine Graybeal is quite ill with intestinal flu.

Mr. and Mrs. Fowler of Bozeman, Mont., visited Mrs. Fowler's sister, Mrs. James Warner several days last week.

Prof. and Mrs. Ralph Jones, who have been in Seattle for some time, have arrived to take up the school work and will live in the W. C. Isom house.

Mr. and Mrs. Lyle Eddy and little daughter arrived the last of the week and are living in one of the Leitch cabins.

Miss Eva Casteel of Portland is the new primary teacher. She arrived Friday and will reside with Mrs. O. Corvill.

Miss Mary Culp is the new intermediate teacher; Miss Dorothy Colten, high school teacher and Miss Mary Crooks will again teach music and art.

Bert Dexter is employed at the high school building at Boardman.

Mr. and Mrs. Emery Shell and family of Weyer, Idaho, visited Mr. and Mrs. R. V. Jones and the Rand families several days last week.

Miss Florence Brace of Weyer, Idaho, was a guest of her parents, Mr. and Mrs. Frank Brace over the week end.

Mr. and Mrs. Earl Leach of Umatilla were dinner guests of Mr. and Mrs. Earl Isom Sunday.

Mrs. W. C. Isom left Sunday night by train for Portland for medical treatment.

Rev. and Mrs. Harness and family spent several days at Lewiston, Idaho, last week. An uncle and aunt, who had been visiting them, accompanied them on the trip.

A New York State experiment station points out the importance of completely filling bottles when bottling grape, apple or cherry juice, because air in the top affects flavor and color.

## COLUMBIA GRANGE NOTES

Although Columbia Grange had few in number at its regular meeting Tuesday evening, an interesting evening was enjoyed.

Emil Zivney, club leader for the 4-H Electrification club, presented Charles Kik and Eugene Rugg as teammates to give the demonstration they will present later in the week at the state fair.

The fan type electric brooder set up in its entirety would cost less than \$25.00. When the boys have completed their demonstration in Salem, the complete brooder, ready for operation, will be sold at cost to some one here on the project, labor costs not entering into the figure.

The brooder provides 7 square inch per chick, allowing for 600, or 12 square inch for poultz would accommodate 335.

The fan type brooder allows the free warm air at all parts of the brooder, thus eliminating the chance of mass suffocation by bunching near the brooder stove. It is a fact that the operating cost does not exceed that of the briquet-burning brooders, is much safer, cleaner and easier managed.

Mr. and Mrs. Kik and Mr. and Mrs. Rugg, parents of the boys, were welcomed as Grange visitors.

An even number of ladies and men were present for the first night of the attendance contest. That will never do, so perhaps the ladies can arrange for the men folks to be late with chores, or irrigation duties to detain them from attending the next meeting.

The home economics club will meet at the home of Mr. and Mrs. Carl Metteer Friday, September 8.

## BOARDMAN NEWS

By Ruth Fisher

Geo. McCutchen, who has been building a silo on his place here, left for Yacont, Wash., Sunday to bring his son Ralph back to Walla Walla for school.

Mrs. C. Rosalind of Arlington visited her mother, Mrs. O. Forbes, over Sunday.

Harold Tyler, who has been employed at Umatilla, came home for school.

Mrs. Jack Gorham, who has been in the hospital at Hermiston since the fourth of July, is expected to be able to come home next Sunday.

Most of the third crop hay is up in this vicinity. The rain caught some of it but it was not badly damaged. Some of the farmers are expecting a fourth crop.

The North Morrow county fair is to be held in the high school gymnasium next Friday and Saturday. Many interesting entries are going to be made.

School opened Monday with a half day session. All teachers were present and ready for duty. There are several new pupils both in the high school and grade school.

Mr. and Mrs. Eugene Herman of Pendleton were visiting at the home of her parents, Mr. and Mrs. Claud Myers Sunday. Since this is the first time the young couple have been in this vicinity since their marriage, they were charivariated by their many friends.

Mr. and Mrs. Tannehill and son Keith who were vacationing in California, returned Saturday. Mrs. Art Allen and sons Clayton and Gene, who were visiting her mother in Los Angeles, returned with them.

The silver tea for the Ladies Aid will be held at the home of Mrs. Flossie Coats Wednesday afternoon.

Mr. and Mrs. Elmer Messenger returned Sunday from a motor trip. They visited in Portland, Vancouver and Troutdale. They were accompanied home by their daughter Lois. Janet Gorham went to Pendleton Monday to take up a post graduate course in chemistry.

Miss Awilda Bleakney is visiting her parents, Mr. and Mrs. Neal Bleakney.

Elizabeth Kristensen went to Hermiston Sunday where she will attend high school the coming year.

Cecilia Partlow visited over Sunday at the home of her parents, Mr. and Mrs. John Partlow.

Mr. and Mrs. Robert Berger and children went to Madras Sunday to attend the wedding of Mrs. Berger's sister.

The Congregational meeting of the community church which was announced for the 10th of September, has been postponed until further notice.

## WHEAT PAYMENTS TO BE SMALLER

It is expected that wheat farmers who comply with the AAA farm program in 1940 will be paid from 18 to 22 cents a bushel on the normal yield of their acreage allotment, as compared with 28 cents this year, according to word received by the state AAA office at Corvallis. This includes conservation and price adjustment payments.

# WANTS

1c a Word - Minimum 20c

FOR SALE—TWO GUNS, .25-.35 & .30-.30. Excellent condition. See O. O. Felthouse, Hermiston. 3-1c

STRAYED FROM MY PASTURE—West of Everett Shaver farm, a yearling dark Jersey heifer. J. H. Hunt, Columbia district. 3-1fc

SHEEP FOR SALE—ANY AMOUNT. Also 6 cows. Miller's Trading Post, Hermiston. 2-3tp

CHESTER WHITE WEANER PIGS for sale. H. G. McCulley, near Columbia school house. 3-1c

WE BUY, SELL AND EXCHANGE furniture, machinery, household articles. Miller's Trading Post, Hermiston. 3-1fc

FOR SALE — TWO-TUB CIDER press. Jess Prindle. Phone 58J2. 3-1c

LOST—DARK BROWN SUITCASE, containing personal effects, clothing and snapshots, probably between Arlington and 12 miles west of Pendleton. Reward. 3-1c

SHEEP FOR SALE—ANY AMOUNT. Also 6 cows. E. E. Pulley, Hermiston. 2-3tp

WANTED—25 PULLETS, ABOUT ready to lay. State price. Address X, Stanfield. 2-3tp

150 APRIL WHITE LEGHORN PULLETS. Price reasonable. Neva Pilon, Spinning ranch. 1-3c

MILL WOOD FOR SALE, \$4.00 PER cord. Pendleton Saw Mill, 2 mi. west of Pendleton on Reith road. 1-4p

2-ROOM FURNISHED APARTMENT on ground floor; also one apartment on second floor. Carter's Apartments, Katty corner from depot. 1-3c

WANTED—TO RENT A HOUSE IN or near Hermiston by October 1. Write Box 8, The Dalles, Ore. 1-4p

WANTED—PLACE TO WORK FOR room and board, while attending school. Small wages. Write Ellen Hammill, Stanfield. 52-3tp

FOR SALE—MAJESTIC COAL AND wood range, hot water back, good shape. F. C. Fredrickson, Irrigon, Ore. 52-1fc

FOR RENT—FURNISHED MODERN apartment, with elec. refrigerator and stove. Also for sale a wood and coal range with water coils. H. E. Hanby. 50-1fc

FURNISHED ROOMS FOR RENT FOR light housekeeping. Joe Dyer. 50-1fc

FRAMES FOR GLASSES, \$2.50. A. W. Behrman, Watchmaker, Herald Office, Hermiston. 45-1fc

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### CITATION.

IN THE COUNTY COURT OF THE STATE OF OREGON FOR UMATILLA COUNTY.

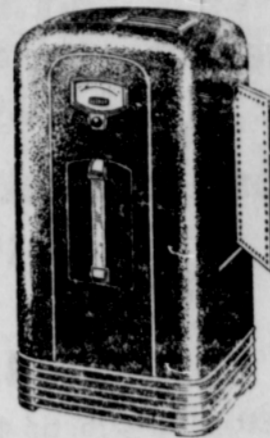
In the Matter of the Estate of THOMAS P. HANSEN, Deceased, TO: The unknown heirs of Thomas P. Hansen, deceased, and to all other persons claiming to have any interest in the real property of Thomas P. Hansen, deceased, and to all other devisees and heirs unknown, if any there be.

IN THE NAME OF THE STATE OF OREGON.

You and each of you are hereby cited and commanded to appear before the Honorable Carl W. Chambers, Judge of the above-entitled Court, within ten days from the date

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of the service of this citation, upon you if served within Umatilla County, Oregon, and within twenty days after the service of this citation upon you if served within any other County in the State of Oregon, and within four weeks from the date of the service of this citation upon you if served within the United States and outside of the State of Oregon, and then and there show cause, if any exists, why an order of the above entitled Court should not be made permitting and authorizing A. J. Smith as administrator of the estate of Thomas P. Hansen, deceased, to sell at private sale for cash, for the purpose of paying funeral charges, expenses of administration and claims against the estate of Thomas P. Hansen, deceased, all the real property of the estate or such portion thereof as may be necessary to sell for such purposes, the said real property being described in the inventory and appraisal filed in the above entitled estate and in the petition of the administrator filed herein applying for permission of the Court to sell said real property, and more particularly described as follows:

The North Half of the Northeast Quarter of Section Twenty-one, in Township One, North of Range Twenty-six, E.W.M., in Morrow County, Oregon.

This citation is issued pursuant to order of the Honorable Carl W. Chambers, Judge of the above-entitled Court, duly made and entered on the 25th day of May, 1939.

MRS. E. B. CASTEEL, Clerk. (SEAL)

This citation is served upon you by publication thereof for four successive weeks in the Hermiston Herald, a newspaper of general circulation published weekly in Hermiston, Umatilla County, Oregon, by order of the Honorable Carl W. Chambers, Judge of the above entitled Court, which order was made and dated the 25th day of May, 1939; the date of the first publication of this citation is the 10th day of August, 1939, and the last date of publication will be the 7th day of September, 1939.

A. C. MCINTYRE, Attorney for Administrator, Post Office Address: Pendleton, Oregon. (Aug. 10-Sept. 7)

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