

Farm Calendar

AUGUST

19—Poe Valley Grange, Grange hall, 8:30 p.m.; 19—Bonanza Farm Bureau Center, at the library, 8 p.m. Mr. and Mrs. Wu will show pictures on Hawaii. Refreshments. 19—Midland Grange social meeting at grange hall, 8 p.m. Entertainment and refreshments. 17-22—Yamhill County livestock show; 17-23—Multnomah County fair, Gresham; 18-21—Jackson County 4-H fair, Medford; 18-20—Annual joint meeting of the American Farm Economic Association and the Western Farm Economics Association, OSC, Corvallis; 20—First annual production tested livestock auction sale, livestock pavilion, OSC.; 20-21—Nut Growers Society of Oregon and Washington annual tour; Walnut day, Aug. 20; filbert day, Aug. 21; 20-22—Lincoln County fair, Newport; 20-23—Umatilla County fair, Hermiston; 21—Bly Grange, 8 p.m. at the Hall ranch, 1/2 mile East of Bly; 21—Shasta View Grange, Cor. Madison and Shasta Way, 8 p.m.; 21-23—Deschutes County fair, Redmond; 24—Merrill Grange, Recreation Hall, 8 p.m.; 24-26—Linn County fall fair, 4-H Club County fair, Albany; 24-26—Yamhill County Junior Fair, 4-H Bldg., McMinnville; 25—Malin Grange, 8 p.m. at the Malin church; 25—Langell Valley Grange, 8:30 p.m. at Lorella; 25—Klamath Falls Farm Bureau; 25-28—Clatsop County 4-H fair, fairgrounds, Astoria; 26—Lost River Grange, 8 p.m. at grange hall; 26—Henley Farm Bureau, 8 p.m. at Henley Grange Hall, 26—Malin Farm Bureau, 8 p.m. at Fire Hall; 26-28—Marion County and City of Salem 4-H fall show—state fairgrounds, Salem; 26-29—Clackamas County fair, Canby; 26-30—Washington County fair, Hillsboro; 27-29—North Morrow County fair, Boardman; 27-30—Wasco County fair, W. E. Hunt Park, Tygh; 28-30—Siskiyou County fair, Yreka, Calif.; 28-30—Jefferson County fair, Madras; 28-30—Modoc County fair, Cederville; 30-2—Polk County fair, Richfield; 30-2—Wallowa County 4-H & FFA fair, fairgrounds, Enterprise; 31—Southern Oregon ram sale, Lakeview.

SEPTEMBER

1—Fort Klamath Grange, 8:30 p.m.; 2—Henley Grange, at Mac's Store on Merrill Highway, 8 p.m.; 2—Poe Valley Grange, grange hall, 8:30 p.m.; 2—Midland Grange, at grange hall, 8 p.m.; 3—Malheur County fair, fairgrounds, Ontario; 3-8—Morrow County fair and rodeo, Heppner; 4—Shasta View Grange, Cor. Madison & Shasta Way, 8 p.m.; 4—Bly Grange, Hall ranch, 8 p.m.; 4-7—Lake County fair and roundup, fairgrounds, Lakeview; 5-12—Oregon State Fair, fairgrounds, Salem.

Right Heat Big Factor In Sheep

Temperature is an important factor with respect to degree of fertility of rams, says John Landers, extension animal husbandry specialist at Oregon State college.

Tests at the OSC agricultural experiment station shows that the lamb drop is often widely scattered for early lambing ewes, covering as much as two or three months, Landers reports. The same ram bred to similar kind of ewes in November resulted in 95 to 97 per cent of the ewes lambing within a three-week period.

Landers makes the following suggestions for preparing the ram for the breeding season in order to improve his fertility at an early date.

Shear the ram three to four weeks before the breeding season begins. He should be sheared close all over, unless flies worry him considerably. Then it may be wiser to shear close only on the entire underside of the body.

Keep the ram in the most comfortable quarters available providing a constant supply of cool, clean water.

Feed good quality hay or good bran to keep the ram in good physical condition. Usually a pint to a quart of mixture of equal parts by measure of oats and bran is sufficient. In addition, the ram should always have access to a mixture of equal parts of steamed bonemeal and salt.

Turn the ram with the flock for an hour early in the morning, then remove him to his quarters. If the weather is cool in the evening, he can also be put with the ewes for an hour, but overwork at this time should be avoided.

Landers believes that good management is important, but that fertility in rams is also inherited. He further believes that selection of rams from ewes that drop lambs consistently early in the season and whose sire was also from an early lambing ewe will contribute materially to success in the production of early lambs—usually a very profitable system of sheep production.

Farm Youth Plans Trip

First Oregon farm youth to sign for an exchange visit abroad next year is Joe Ellingson Jr., 20, Mapleton.

The Lane County youth will visit Costa Rica starting next April under the International Farm Youth Exchange program. A junior at Oregon State college, he has been a 4-H club member nine years and was boys' president of the 1951 4-H club summer school.

Under the IFYE program, which is supported entirely by voluntary contributions, Oregon must raise \$500 to pay the expenses of each delegate's travel. When he returns, another \$200 is raised to pay part of his expenses reporting throughout the state.

Three Oregon youths are now in Europe under the exchange program for promoting world peace. They are Ardis Eagy of Albany, Switzland; Howard Saucy of Dundee, France; and Ken Hill of Cove, Norway. They will live and work with farm families until November. In exchange, Oregon is playing host to six from other countries.

PEST REPORTER Distributor for **OU PONT** Agricultural Chemicals

LET US SPRAY **SPRAY CENTER** SCUTTLE ON WEEDS AND BUGS

SPUDS

We are still plane spraying and dusting Spuds . . . very few bugs showing up, but some fields are having build-ups. We are rapidly approaching the time when (normally) the insects would begin to migrate to winter quarters . . . usually the latter part of August on Aphis.

HOME TREES AND SHRUBS

A shot of Malathion along with soluble Plant Food gives control for aphid and mites, as well as feeding the trees.

F.T.E. (Fritted Trace Elements) . . . The minor elements incorporated with silica to be worked in around those chlorotic looking plants.

EARWIGS, GRASSHOPPERS and ANTS . . . Chlordane dust applied with a hand duster seems to do the job best. Easy to apply . . . be sure to get in all shady places.

DEFOLIATION

We are booking defoliation by plane and ground for fall. Application is \$2.50 per acre, material cost is \$2.37 per acre, and you supply the oil . . . Price is down this year.

TIMING . . . The Clover is much later this year, so care should be taken not to defoliate before the seeds have matured completely. WHEN THE DEFOLIANT HITS THE CROP, IT IS DONE . . . BE SURE YOUR SEED IS MADE BEFORE IT IS SPRAYED.

The Spray Center

Telephone Tulelake 7-2391 East-West Road and Main—Tulelake, Calif.



Herald and News **FARM NEWS**



ALONG NATURE'S TRAIL

By KEN McLEOD

J. E. Kerr, senior engineer, of the famous contracting firm, Bechtel Corporation, had an interesting article in the electric power industries trade journal, "Electric Light and Power," May 1953 issue. The title of the article is one such as you might expect to be found in a sports magazine, "Steam Plant No Longer Death Trap for Game Fish." However, I am quite sure that few fishermen would understand the article as this eminent engineer has written it as it deals with a strictly technical phase of the operation of a great steam plant used for the generation of electricity.

The article deals with Pacific Gas and Electric Company's 575, 000-kilowatt Contra Costa steam plant which is located on the south bank of the San Joaquin river, a couple of miles upstream from the city of Antioch, Calif. The interest of the Bechtel Corp. in the problem was due to the fact that this organization constructed the steam plant and found themselves faced with a very serious conservation problem. How the engineers faced the problem and the solution they developed becomes the subject of the article.

The steam plant located in the so-called "Delta" region of California, because it is here the Sacramento and San Joaquin rivers flow into Suisun Bay, an arm of San Francisco Bay. The two great rivers are interlaced by many cross channels forming the delta area of sloughs, low islands and tule marshes. Tidal conditions prevail in the area with an extreme range as much as eight feet at the site of the steam plant.

"This area abounds with fish life," states Mr. Kerr, "both anadromous and resident fish of many species are to be found here. Included in the former class are the king salmon, striped bass, shad, steelhead trout, Pacific lamprey eel, two species of smelt, white and green sturgeon and others. Except for catfish, fish in the resident group in this area have little commercial or sports value."

The steam plant requires a river of water to flow across its condenser tube system which is an integral part of steam turbine operation. Kerr states that when the plant comes in full operation it will require a flow of 868 cubic feet of water per second, which, in comparative volume in the equivalent to two thirds the average flow of water going down the Klamath River as the river leaves the Klamath Basin. Apparently the engineers planned their hope upon a system of traveling screens to keep the heavy delta fish population from following this river of water into the plant and across the hot condenser tube system. However, when the first unit of the plant composed of three turbines was placed in operation with an operating capacity of 115,000 kilowatts each, in June 1951, it was discovered that the screen system was not as successful as they had anticipated and the loss of fish life was excessive.

The remarkable point of this story and which Kerr does not mention is that the P. G. & E. Co. had complied with the law in the establishment of fish screens and it could verify easily have ignored the loss of fish life. Perhaps at one time, this corporation would have done so but it discovered a long time ago that it was good company policy to pay close atten-

tion to conservation problems. When the screen system showed its defect a research program was started to see if something could not be done to correct the deficiency.

"To man this fish project, men of varied technical experience and training were chosen," states Kerr "these included engineers from the California State Department of PG&E Co., biologists from the Fish and Game, engineers and craftsmen from the Bechtel Corp. Research and development work was carried on over a period of 17 months, the financial burden of the project being borne by the PG&E Co. Expenditures totaled \$100,000 for the experiments and \$60,000 for the actual installation.

"Investigations and experiments covered many phases of the problem, including the study of fish behavior, velocity studies to determine fish swimming ability, screen mesh size, water temperature tolerance, traveling screen operation, fish stratification and dispersion, electric fish screens, velocity barrier to fish, and finally, the development of a device for safely collecting fish and returning them to the river unharmed."

Kerr does not claim that the results accomplished at Contra Costa is the last word in fish safety or even can be duplicated at other places, but believes that the data gained here is of value and an important step has been taken in the preservation of fish life at large water diversions.

He believes that industry has demonstrated that natural fishery resources can be reasonably maintained while still using public waters for industrial purposes. He hopes that the agencies responsible for the maintenance of these fish resources will continue research work along similar lines.

Check These VALUES!

1 Used New Holland 80 Wire Baler—1951	\$2600
1 Used New Holland 76 String Baler	\$950
1 Used 1952 Minneapolis Moline Wire Baler	\$1650
1 Used Case 1951 String Baler	\$1300
1 Used Dearborne Combine with bulk tank, 1951	\$750
1 Used Case Combine, 1950	\$550

KLAMATH TRACTOR And Implement Co.

Phone 8801 5616 So. 6th

Attention . . .

Grain, Clover Growers

Massey - Harris Combine School

Thursday, Aug. 20, 1:00 P. M.

Factory engineer and representative will be here to conduct a combine school and answer questions pertaining to your equipment or special problems. **PLAN TO ATTEND.**

Instruction and Information on HAY BALING Thurs. Morning

DON KENYON Sixth and Plum Sts. Klamath Falls, Ore.

SEE THE NEW 90 MASSEY-HARRIS COMBINE

OSC Bulletin Gives Info On Profitable Broilers

The most successful broiler growers follow the price cycles, says extension bulletin 736 recently issued by Oregon State college.

A new crop of broilers can be raised in 10 weeks so the price cycle is of short duration, the publication explains. There can be surplus with low prices and three months later a shortage and high prices. Even during periods of comparatively high prices the competition is keen and the margin of profit per bird is small.

Noel Bennion, OSC extension bulletin, says growers can avoid

Hereford Sale Set For P-I

Plans are already being made to hold a sale of top quality Hereford bulls and females at the 1953 Pacific International Livestock Exposition in Portland, Ore. The sale will be held on Friday, Oct. 23, at 1 p.m. Being held in connection with this year's Register of Merit Hereford Show at the PI, the sale is expected to draw consignments from leading Hereford breeders from many of the western states. The sale is being sponsored by the American Hereford Association, and entries must be sent to their office at 300 West 11th Street, Kansas City, Mo., by Sep 1. Entries may be made by sending registration certificates on the animals to be sold to the association office.

According to Walter A. Holt, PI manager, all Hereford sale animals must also be entered in the PI show by Oct. 1. Forms for making entries in the show may be secured from the PI office, North Portland, Ore.

Only top quality registered Hereford males and females will be sold in this year's PI sale. Sale cattle will be shown for sale order and killed at 1 p.m. on Wednesday, Oct. 21.

Operating for the first time as a Register of Merit Show, the 1953 PI is expected to draw many of the top Hereford show cattle from all over the western states. This year's Hereford show will be held on Thursday, Oct. 22, Harry Parker, prominent Hereford breeder from San Luis Obispo, Calif., will judge the breeding classes.

200 Expected At IOOF Meet

Over 200 visitors are expected to be in Klamath Falls Aug. 20 for the state-wide meeting of the Patriarchal Branch of the Odd Fellows. This announcement was made by Herbert M. Munsell, Grand High Priest of the Grand Encampment and chairman of the meet.

Visitors will include George Narderman, Grand Patriarch of the Grand Encampment, who will pay an official visit; Pete Stolsis, grand senior warden; Earl Shank, grand scribe from Portland; W. R. Massey, grand warden of the Grand Lodge, Salem; George Howard, grand junior warden from Silverton; other high ranking officers and dignitaries.

The Golden Rule degree will be conferred on candidates, including four Klamathites, by a team from the Golden Rule Encampment No. 25 of Portland. Royal Purple degree will be conferred by Model Encampment No. 35 of Monmouth.

The Lodge has made arrangements for boat rides on Klamath lake for the ladies in two cabin cruisers. Through the courtesy of the Yacht Club IOOFers will load and dock there. Frank Fleet and Dr. Hugh Swaney will furnish the cruisers.

A social hour will precede conferring of degrees.

Sunday morning there will be a hospitality breakfast.

LET IN THE GREEKS

GENEVA, Switzerland (AP) — Hugh Gibson, director of the inter-governmental committee for European migration, urged Canada, Australia and the United States Tuesday to accept as immigrants some of the 100,000 Greeks made homeless by earthquakes in the Ionian Islands.

TAIPEH, Formosa (AP) — Following Confucian tradition, Nationalist China's Premier Chen Cheng Tuesday submitted his resignation out of respect to his mother, who died Sunday. But President Chiang Kai-shek, as expected, turned it down.

manage birds, process and market should be analyzed. Copies of the bulletin, "Broiler Production" are available from county extension offices and Oregon State college.

NOTICE DELIVERY

MONDAY - WEDNESDAY - FRIDAY ONLY

Beginning Saturday, August 22 Our Store Will Be Closed At 1 p.m. Saturdays

KLAMATH FEED CO.

805 Broad Phone 2-3171

FARM BUILDINGS COST LESS

When You Use Adaptable Butler Buildings



★ For Grain Storage

★ For Implement Shelter and Tool Shop

★ For Cattle Shed

Save on farm building costs with Butler Steel Buildings. Permanent, Weatheright, Rodent-proof, Fire-resistant. Widths: 20', 24', 32', 40', 50', 60', 70' and wider; lengths variable. For full details inquire today.

BUTLER Steel Buildings

Straight Sidelwalls — Use All the Space You Pay For

HEATON STEEL AND SUPPLY

428 Spring Phone 2-3427

Used Combines Slashed 50%

210 Model 12A John Deere Combine	Was 734.73	NOW 367 ³⁶
177 Model 12A John Deere Combine	Was 664.59	NOW 332 ²⁹
167 Allis-Chalmers 60 All Crop	Was 276.65	NOW 138 ³⁷
159 Allis-Chalmers 60 All Crop	Was 478.92	NOW 239 ⁴⁶
136 Allis-Chalmers 60 All Crop	Was 759.33	NOW 379 ⁶⁶
Model K Case Combine	Was 329.82	NOW 164 ⁹¹
178 Model A6 Case Combine	Was 456.75	NOW 228 ³⁷

Better Buy NOW while we're in the MOOD to SELL

Crater Lake Machinery Co.

Klamath Falls 1410 South 6th Phone 2-2544