

# 'BORON' PROMISES AID FOR CROPS OF WESTERN OREGON

## New Fertilizer Element Cures or Prevents Yellow Top in Alfalfa—Controls Canker in Table Beets

CORVALLIS, Aug. 18.—(P)—Boron, the distinguishing element in borax acid and borax, promises to become as valuable a fertilizer element for certain crops in western Oregon as sulfur has proved to be in eastern Oregon, as the result of discoveries just announced by Dr. W. L. Powers, head of the soils department in the Oregon experiment station.

Both boron and sulfur are so-called "minor" elements, so far as plant nutrition is concerned, as they don't belong to the "big three" group of nitrogen, potassium and phosphorus. Sulfur Big Aid When Oregon soil scientists discovered back in 1913 that alfalfa in southern and eastern Oregon needed sulfur it meant an average of a ton more to the acre on 100,000 acres of alfalfa in Oregon alone at trifling cost. Now Dr. Powers has just demonstrated that boron, applied in small amounts per acre, will cure or prevent yellow top of alfalfa in western Oregon which on many soils makes the difference between a good third crop and none worth cutting. Dr. Powers has also just announced that boron applications have given practically complete control of "breakdown" or "canker" in table beets, a trouble that has become a serious menace to the beet canning industry in the state. As little as 30 pounds per acre applied at the time of the first irrigation this season gave 98 per cent control of the canker. No other treatments did any good. This is the first known use of boron for this purpose.

Possible use of boron for yellow top of alfalfa had been reported by an eastern investigator, leading Dr. Powers to attempt it here. On greenhouse alfalfa plants he cleared up the trouble in a few days in May, 1937.

Field trials were then undertaken which have since given startling results. On the Haag Bros. farm in Washington county boron applied 13 months ago has a third cutting this year twice as tall and four times the weight of untreated adjacent parts of the field. An application made after the second cutting on the Howard Belton farm just south of New Era on July 23 of this year gave such quick results that it is easily seen from the road—the treated portions being dark green and thrifty. The trouble shows up more in dry seasons and is attributed by some merely to dry weather. Dr. Powers estimates that on soils where yellow top is prevalent growers may easily add a ton of hay to the acre in yield at a cost not to exceed \$1 an acre. Early spring application on a field basis will give protection at least two seasons and perhaps longer, the time limit not yet being determined.

### GAMBLING IN KLAMATH SPAWNS FORGED CHECKS

KLAMATH FALLS, Aug. 18.—(P)—Circuit Judge Edward B. Ashurst, in giving a charge to the county grand jury today, asserted there is a definite link between gambling and the many forged and bad check cases here. He said a study showed that 71 per cent of the bad check and forgery cases in his court since he assumed office four years ago could be attributed directly to the need for cash to pay gambling debts.

### BOY BURNS TO DEATH PLAYING WITH LAMP

MARSHFIELD, Aug. 18.—(P)—Mistaking gasoline for kerosene while playing with a lamp in the yard of his home at Bridge, Rodney L. Farmer, 7, son of Mr. and Mrs. Helmer J. Farmer, was fatally injured by an explosion today. His mother, hearing the child's screams, extinguished the flames by wrapping him in a blanket, but he had been too severely burned before she could reach him.

Weather. Northern California: Fair tonight and Friday, but overcast night and morning on the coast; slightly warmer in the central portion Friday; light to moderate northwest wind off the coast.

Oregon: Fair tonight and Friday, but occasional cloudiness near the coast; cooler in interior of southwest portion tonight; warmer in interior Friday; moderate northwest wind off the coast.

# SHASTA BUILDING NEAR COMPLETION

Maintaining a lead set up early in its plans it has been announced from exposition headquarters, in San Francisco, that the Shasta-Cascade building at the World's Fair is nearing completion and will soon be ready for interior decoration and exhibits; being the first regional group building completed.

The building, of modernistic design, contains approximately 15,000 square feet of floor space, and is located next to the large U. S. Government building and across the street from the California State edifice. In order to inspect the building before starting the interior decoration and installation of exhibits the Shasta-Cascade exposition commission will hold a meeting in the administrative offices of the building, September 17, when they will be given a preview of the great exposition in the making on Treasure Island. Members of the commission from Jackson county are Ralph Billings and A. H. Barwell, who are expected to attend the meeting.

### On the Radio Chains

STATIONS Where to Find Them on the Dial: KEX, Portland 1180; KFI 840, Los Angeles; KGA 1470, Spokane; KGO, 790, San Francisco; KGW 930, Portland; KJR 970, Seattle; KNA 1050, Los Angeles; KOA 830, Denver; KOIN 940, Portland; KOMO 925, Seattle; KPO 980, San Francisco; KSL 1130, Salt Lake.

Thursday, 5:00 — Symphony Orch., KPO, KFI, KGW; Plays, KGO, KEX; Amateur Hour, KNX, KOIN, KSL. 5:30 — Plays, KEX. 5:45 — News, KGA. 6:00 — Music Hall, KPO, KGW, KFI; Concert Orch., KNX, KOIN, KSL; People I Have Known, KGO, KGA, KEX. 6:30 — Americans at Work, KNX, KSL, KOIN; People I Have Known, KGO, KGA. 7:00 — Amos and Andy, KPO, KGW, KFI; Hallett's Orch., KNX; Song of the Lone Star, KGO, KGA, KEX. 7:15 — Screen Scoops, KNX, KOIN; Facts and Fiction, KPO, KGW, Reviews, KGO. 7:30 — Clinton's Orch., KGA; Himber's Orch., KPO, KGW; Political Program, KNX; Cugat Music, KGO. 7:45 — Clinton's Orch., KJR; Himber's Orch., KOMO, KOA; Who's in Town Tonight, KGO; Duchin's Orch., KNX, KSL, KOIN. 8:00 — Bernie's Orch., KPO; Grant's Orch., KGO; Long's Orch., KOIN; News, KEX, KGA. 8:15 — Grant's Orch., KEX; Symphony Hour, KPO, KFI, KGW; Bernie's Orch., KOA; Long's Orch., KNX. 8:30 — Calling All Cars, KNX; Martin's Orch., KGO; Weems' Orch., KSL, KOIN; Baseball Game, KEX, KOA. 8:45 — Baseball, KGO. 9:00 — Sallee's Orch., KNX, KOIN; Danche Orch., KOA; News, KGA. 9:15 — Duchin's Orch., KOMO; Trumbauer's Orch., KJR; Political Talk, KPO, KFI. 9:30 — Weems' Orch., KNX, KSL, KOIN; Thurn's Orch., KPO. 9:45 — Thurn's Orch., KGW; News, KOA. 10:00 — Reporter, KPO, KGW, KFI; Durant's Orch., KSL; Dance Orch., KJR; News, KNX. 10:15 — Gentlemen Preferred, KPO, KFI; Hatch's Orch., KNX, KSL; Saunders' Orch., KGA, KEX. 10:30 — Reisman's Orch., KGO, KEX, KGA; Mojica's Orch., KPO, KFI. 10:45 — Mojica's Orch., KGW; Gray's Orch., KNX, KSL, KOIN. 11:00 — Trumbauer's Orch., KPO, KFI, KGW; Five Star Final, KGO; Pendarvis' Orch., KNX, KSL, KOIN; Organist, KGA.

Friday, 5:00 — Gluskin's Orch., KNX, KSL, KOIN; Swarthout's Music, KEX; Harmony, KFI, KGW; Calif. on Parade, KPO; News, KGO. 5:15 — Violinist, KGW; Exposition Backstage, KPO; Swarthout's Orch., KGO, KGA. 5:30 — March of Time, KPO, KFI, KGW; Girard Orch., KGO, KEX. 5:45 — Your Government at Your Service, KGO, KEX, News, KGA. 6:00 — Drama, KPO, KFI, KGW; Design for Dancing, KGO, KEX, KGA. 6:30 — Wood's Music, KNX, KOIN; Ink Spots, KGO; Jimmie Fidler, KPO, KGW. 6:45 — Organist, KGW; State of the Nation, KGO; American Viewpoints, KNX, KOIN; Political Talk, KPO, KFI; Sports, KEX. 7:00 — Buise's Orch., KNX, KOIN; Amos and Andy, KPO, KGW, KFI; Drama, KGO, KGA, KEX. 7:15 — Buise's Orch., KSL; Rapp's Orch., KGA; Political Talk, KGO. 7:30 — Symphony Orch., KGW; Avalon Party, KPO; Joy's Orch., KNX, KSL, KOIN; Wings of Song, KGO, KGA.

8:00 — Drama, KPO, KGW, KFI; March of Progress, KGO; Concert, KJR; Dance Orch. KNX, KOIN; News, KEX, KGA. 8:15 — Trumbauer's Orch., KGO, KEX; Dance Orch., KSL. 8:30 — Ravus, KPO, KEX, KFI. KGA: Gray's Orch., KSL; Barron's Orch., KGO. 8:45 — Baseball, KGO. 9:00 — Circus, KPO, KGW, KFI; Weems' Orch., KNX, News, KJR, Baseball, KEX, KGA. 9:15 — Loveland's Orch., KJR.

9:30 — Martin's Orch., KPO, KFI; Dance Orch., KJR; Weeks' Orch., KNX, KSL. 9:45 — Dance Orch., KSL; Smith's Orch., KNX. 10:00 — Reporter, KPO, KFI, KGW; Grant's Orch., KJR; News, KNX. 10:15 — Grant's Orch., KEX, KGA; KFI; Art of Conversation, KNX, KOIN; Book Parade, KPO. 10:30 — King's Jesters, KPO, KGW; Drake's Orch., KGO, KEX, KGA. 10:45 — Fiddlers Three, KPO, KFI, KGW; Sallie's Orch., KNX, KOIN.

11:00 — Organist, KGA; Pasadena Civic Auditorium, KNX, KOIN, KSL; Five Star Final, KGO; Reisman's Orch., KPO, KFI; Dance Orch., KGW, News, KEX. Find Marijuana Patch CLEVELAND (UP)—A 7-year old boy led police to a large patch of marijuana in a field near the downtown district here. Sunflowers had been planted around the field as camouflage. Use Mail Tribune Want Ads.

## Time for School—and Time to Save at Wards on SCHOOL CLOTHES

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