

## SAVE LABOR IN GROWING BEETS

Use of More Horses and Larger Implements Reduces Work of Farm Laborers.

### COMPARISON OF PLOW CREWS

Approximately One Hour an Acre Less of Man Labor is Necessary to Operate Plow Drawn by Three Horses Than by Two.

(Prepared by the United States Department of Agriculture.)

Many farmers are solving the labor problem by using larger implements and more horses. Such practices have enabled sugar-beet growers greatly to reduce their expenses for man labor and increase their operations. The normal man labor required in growing sugar beets will vary from 80 to 135 hours or more an acre.

Under average conditions, where more horses and larger implements are used, the man labor on machine operations will be reduced approximately 25 per cent.

A direct comparison of plowing crews in Michigan and Ohio, where conditions under which the work is done are uniform, shows that approximately one hour an acre less of man labor is necessary to operate a plow drawn by three horses than by two. With the larger outfit, as also when a tractor is used, a float or plank can be attached to the plow, and thus the breaking of a cloddy surface can be done with little additional effort or cost. In disking in the Michigan and Ohio districts it was found that a four-horse outfit saves one-quarter of an hour of man labor an hour over the two-horse equipment.

#### Saving in Sugar Beets.

Cultivation of sugar beets furnishes a striking contrast in crew efficiency. In Michigan and Ohio it was found that 1.9 man-hours an acre were required to cultivate once over with a one-row implement, 1.6 man-hours with a two-row cultivator, and only .9 of a man-hour for a four-row cultivator—a distinct saving in man labor by using the four-row machine. As many fields require attention before it is possible for the grower to get the work accomplished, any saving of labor and time is an advantage to the growing crops and affords more man labor for crops competing with the sugar beet in the distribution of labor.

Under average conditions a crew of one man and two horses working continuously will lift approximately 1½ acres of beets a day. A crew of one man and four horses will probably increase this area to two acres, or possibly 2½ acres a day under favorable conditions. The performance of the lifting implement can be improved still further with the addition of more horse power. If, by using an extra horse on the lifter, this work can be performed in a shorter period, more time will be available for hauling the beets to the factory or loading station.

#### Harvesters Mean Further Economy.

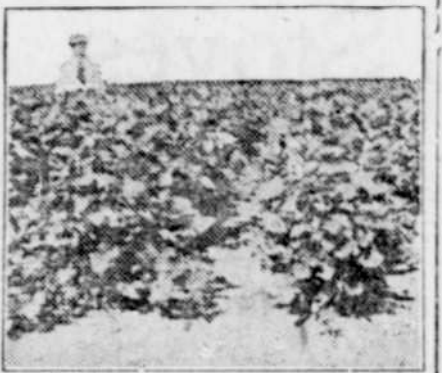
An appreciable saving in farm labor will undoubtedly be accomplished through the development of mechanical harvesters. The hand labor on sugar beets, comprising such operations as blocking, thinning, hoeing, pulling, topping and loading, constitutes from 52 to 75 per cent of the total man labor required in growing the crop. The pulling, topping and loading, when combined, make up 24 to 42 per cent of the work. Estimates made by several growers show a variation of 24 to 30 hours in the labor requirement for the hand work in harvesting. It is very apparent, says the bulletin, that this amount can be reduced to a few hours an acre with the introduction of the mechanical harvester.

### SOY BEAN IMPORTANT CROP

Has High Protein Value and May Be Fed to Advantage With Less Nitrogenous Crops.

(Prepared by the United States Department of Agriculture.)

The soy bean has an important place among soiling crops. Having a high protein value, the crop may be fed to good advantage with less nitrogenous crops, such as corn, sorghum, su-



A Field of Soy Beans.

dan grass, and millet. The great variation in the time of maturity of the different varieties of soy beans or the planting of the same variety at different dates will make it possible to have a succession of green forage throughout the greater part of the

summer and fall. When the crop has become well established it grows well during drought and often succeeds when other crops fail.

#### Typhoon Hurt Coconut Trees.

The Christmas typhoon which swept over the southern Philippine islands did considerable damage to the coconut plantations. Trees, especially those along the seashore and places most open to the wind, were either blown down or weakened to such a degree that unless the affected groves are cleaned up and taken care of, the trees still standing are doomed, but for another reason, says the bureau of agriculture. The fallen trunks will become breeding places of all manner of beetles, borers and other coconut destroying pests and diseases. The weakened trees, unable to fight these odds, will sooner or later succumb and thus the farmers will suffer more losses.

#### Got Him at Last.

He was a large, dapple-gray, sensible-looking horse. It was his task to pull a baker's wagon from house to house in a district on the North side, as the driver dodged in and out of the houses with his basket of bread and cakes.

"Fritz" called out the driver as he ran down the porch steps, intending that as a notice to his faithful friend to move on down the street. The horse did not move.

"Charlie," spoke up the driver again, and the old dapple-gray stepped off promptly.—Indianapolis News.

#### Uncle Eben.

"Owin' to de way smarter men dan I is has got mixed up in arguments," said Uncle Eben, "whenever anybody 'spains de league o' nations to me, I jes' says 'yessir' an' goes on 'bout my business."

#### Simple Resistance Units.

To a British firm goes the credit for introducing a very simple type of resistance unit which possesses numerous and important advantages. The wire or strip member is supported on a single rod passing through the center section of each leg of the zig-zagged wire or strip. Among the special advantages claimed are: Very large radiating surface for a given capacity; small weight for a given capacity; absolute freedom for expansion; owing to the large surface and small bulk of metal they cool very quickly; they are absolutely unaffected by vibration or jolts; units can be run red-hot without danger of sagging; repairs can be effected on separate units; tapping can be taken off anywhere along the center clamp; the number of units being small compared with a grid resistance of equal capacity, there are not many joints to cause trouble.—Scientific American.

#### By Naval Precedent.

It is a curious anomaly of the senior service, says the London Daily News, that an officer, who attains, as Lord Jellicoe and Sir David Beatty have just attained, the rank of admiral of the fleet, is required by precedent to retire from active command. The rule may have been designed to eliminate old seadogs who had become too ancient to bite, but it seems singularly foolish to permit its application to men like Jellicoe and Beatty. By the unprecedented rapidity of his promotion, Sir David has finished his sea career at the age of forty-eight—in the prime of his life. The army is free from this senseless precedent, for the rank of field marshal—which is the military equivalent to the rank of admiral of the fleet—was, of course, held during the war by both Lord French and Sir Douglas Haig.

#### Someone is Lying.

Except of a conversation between Jim Neill and his brother "Juice," Pike Ewing of the C. R. yard. "The fool kid didn't have sense enough to let go of the bar he had on his shoulder when he felt the floor dropping away from his feet and, of course, when the old magnet added the bar to the under side of the plate it was carrying down the shop, the kid went with it. The worst of it was the crane-man couldn't turn off the juice and release the kid without dropping the plate on top of him at the same time, so—"

"I s'pose they had to let the kid hang there and starve, huh?"—Heave Together.

#### Swinging the Ax.

Uncle Joe Cannon was commenting on a certain governmental bureau. "It's a mighty polite bureau," he said thoughtfully. "Why, they never fire a man in that department. They ask him to tender his resignation. And tendering, you know," said Uncle Joe smiling, "tendering makes it less tough."

#### Famous Old Inn Gone.

The city of Augsburg has seen the last of that famous inn, "Drei Mohren," or preferably, in sonorous French, "Hotel des Trois Maures." The Bavarian revolution has demolished it with the famous room and fireplace in which the financier Fugger, to save his life, lit a fire with all those "I. O. U.'s" awkward reminders of a monarch's indebtedness. It was in this hostelry, too, that Marie Antoinette put up on her way to France to become the wife of the dauphin. Over the lintel of the "Trois Maures" were carved the lilies of France in commemoration of the event. Now the inn and the lilies have disappeared in another such cataclysm as swept Marie Antoinette to the guillotine, some hundred and twenty-odd years ago.

#### Notice of Guardian's Sale of Real Property

In the County Court of the State of Oregon, for Marion County. In the matter of the estate and person of Theodore Gehlen, a Minor.

Notice is hereby given that by virtue of an order of the County Court of the State of Oregon for Marion County made and issued on the 26th day of May, 1919 by said court, duly empowering and licensing Bernard Gehlen, guardian of the above named estate and person of said Theodore Gehlen, a minor, to sell certain real property belonging to the above named estate of said minor and in said order described, at private sale, the said Bernard Gehlen from and after the 30th day of

June, 1919, at the hour of two o'clock, p. m., will proceed to sell at private sale, to the highest bidder, at the law office of V. A. Goode, Stayton, Marion County, Oregon, the said real property described as follows, to-wit: An undivided one-sixth interest or part of Lots Nos. 7 and 8 in block No. 5 of Ottomar Luettich addition to the Town of Stayton, Marion County, Oregon, as shown by the plat of said addition now on file and of record in the Recorder's office of Marion County, Oregon.

Terms of sale: cash in hand. Dated this 26th day of May, 1919. Bernard Gehlen, Guardian of the estate and person of Theodore Gehlen, a Minor.

V. A. Goode, Attorney for said Estate. First publication, May 29, 1919. Last June 26, 1919.

## New Perfection Oil Cook Stoves

Bake Perfectly Have Glass Doors Keep Walls Clean and Food Warm

At the touch of a match you have a flame that will do your cooking faster and without the dirt of ashes or kindling. You can also get instantly any slower cooking flame you want, right down to low simmering—a simple turn of the hand wheel does it. The flame is always in plain sight through the mica doors.

We will be glad to demonstrate to you the wide range of flame adjustment and ease of New Perfection operation.

LILLY HARDWARE CO.

QUACK

SALEM'S TIRE MAN

United States and Pennsylvania Tires

Solid Truck Tires Retreading and Repair Work

NOTE:—The best equipped repair shop this side of Portland.

Full Line of Accessories and Oils

219 N. COM'L ST., SALEM, ORE.

# THE BOOTERY'S GRAND SHOE CLEARANCE SALE

While we have made immense gains in our business, as much as 87 1-2 per cent one month, over the same month last year, and besides, Shoes are increasing in value dollars at a time, but our spring goods were late and the shelves are full and some fall goods are in transit, some already in making, Thousands of dollars of bills coming due, so to take care of both properly we will make this

## SPECIAL CUT PRICE SALE

Thursday, Friday, Saturday and Monday, Tuesday, Wednesday, June 19 to 25

We give a few prices but there are other thousands of pairs at correspondingly low prices

We will close out our Stetson Shoes. They have raised in price too much so we cut them and make the prices:

	Today's Reg. Price	Prices to close	War Tax	Total
Gun Metal, lace, any last.....	\$13 00	\$9 85	none	\$ 9 85
Kid, lace, any last.....	13 50	10 25	3c	10 28
Brown, lace, any last.....	14 00	10 50	5c	10 55
Black Kid Oxford, any last.....	12 00	9 60	none	9 60
Brown calf Oxford, any last.....	12 75	9 85	none	9 85
Brown Kid Oxford, any last.....	13 00	9 95	none	9 95

These no-profit prices to close out during this sale only.

### MEN'S SHOES

	Today's Value	Sale Price
Style 704—Aristo Kid blucher, comfort last.....	\$ 9 00	\$6 45
739—Gun Metal, English lace, welt soles.....	6 00	4 65
715—Tan Russia calf blucher, medium toe.....	9 50	7 95
788—Brown Russia calf Oxford, English.....	10 25	8 65
754—Brown heavy work shoes, double welt soles.....	7 00	4 95
751—757—Black heavy work shoe nailed soles.....	5 50	3 95
773—Black or brown elk outing bals.....	3 25	2 59

This is a good shoe at less than most stores pay for them.  
813—Boys black calf button Neolin soles..... 4 50 3 45  
816—Boys black calf button and lace..... 3 75 2 65  
841—Boys black or brown elk outing bals..... 2 85 2 29  
Youth's sizes proportionately lower than boys.

### Misses and Children's Shoes

	Today's Value	Sale Price
534—Gun Metal button sizes 11 to 2.....	\$4 00	\$3 35
561—Kid Oxfords, sizes 11 to 2.....	4 50	3 60
574—Patent pumps, sizes 11 to 2.....	3 50	2 95
547—White canvas lace shoes 11 to 2.....	2 75	1 95
587—White canvas one-strap sandal size 11 to 2.....	1 75	1 35

The smaller childrens sizes at similarly low prices.  
Barefoot Sandals at from \$2 85 down to 95c

There Are Many More Such Bargains



Salem, Oregon

### LADIES' SHOES

	Today's Value	Sale Price
230—Red Cross brown, all kid lace, French heels.....	\$13 00	\$9 85
130—Brown kid lace, French heels.....	9 50	7 95
108—Selby black kid lace, French heels.....	9 00	5 95
240—Brown calf, cloth top, lace, Cuban heel.....	9 00	6 85
287—Selby, white Nile cloth, lace Neolin soles.....	6 00	3 65
284—White duck lace, leather soles, low heels.....	3 75	2 65
424—Red Cross brown kid pump, extra fine.....	12 00	9 85
421—Brown calf pumps, Cuban heels.....	7 00	5 45
437—Black patent pumps, French heels.....	7 00	5 45
410—Black kid pumps, military heels.....	7 50	5 65
408—Black kid, plain or 1-strap pump school shoe.....	5 00	3 85
White Reignskin and canvas pumps, \$3 65 down to.....	1 95	
330—Red Cross brown Oxfords, military heels.....	8 50	6 65
331—Brown kid Oxfords, low heels.....	6 25	4 95
423—Brown calf Oxford, Neolin soles, school heels.....	6 00	4 45
344—Black patent Oxford, French heels.....	7 50	5 85
483—White Reignskin, military heels.....	7 00	5 45
363—White Sea Island Oxford, French heels.....	4 50	3 15
Other lots of white Oxfords as low as.....		2 35
368—Extra fine white kid Oxford Red Cross turn soles full Louis XV heels, very elegant.....	12 00	9 95
190—High grade white kid 8-inch boots, fine turned soles, full Louis XV heels, very dressy.....	14 00	10 85

Hundreds of other bargains just as good.

If You Miss This Chance to Buy High Grade Shoes at Such Extra Low Prices You Will Surely Be Sorry  
BARGAINS-EVERYWHERE HERE-BARGAINS  
Don't Miss Your Chance or Mistake the Date or Place and Pay More