

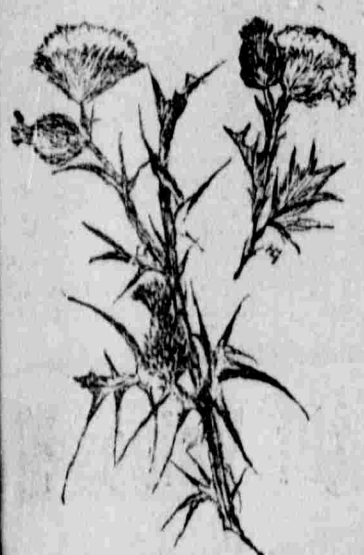
WAR AGAINST ALL FARMERS IN UTAH

Is Being Waged by Five Silent, Persistent, Resourceful Armed Foes.

LEGISLATION IS NEEDED.

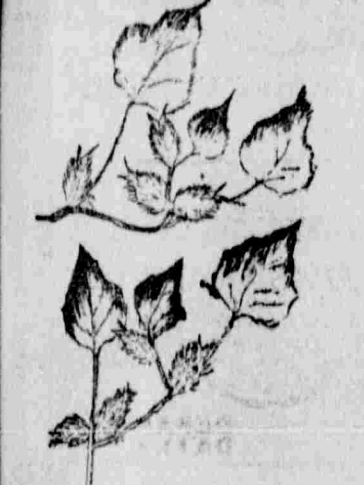
To Rid the Land of the Cocklebur, Burdock, Prickly Lettuce, Common and Russian Thistle.

VII.
We have been asked to name our most noxious weeds, and to tell how to get rid of them.
Apart from the Russian thistle, previously described, and figured below in all its stages, five of the worst of the other weeds collected by the classes in nature study at the state university are as troublesome as to be of economic



COMMON OR BULL THISTLE.
A weed pest (Cirsium lanceolatum), which, with its near relative the Canadian thistle, is a nuisance in pastures and hayfields. Drawn from nature for this article by an Eighth grade pupil of the State Normal training school.

Importance. Laws should be enacted for their eradication. Most of the states have such laws, and Utah is in need of a similar statute with the means appropriated for making it effective. Otherwise our experience with "June grass" will be repeated with the Russian thistle and with various other weeds. Landowners should not permit annual weeds to go to seed. In the case of biennial or perennial weeds, the root, bulb or rootstock should be killed by cutting off in the root, since ordinary mowing is likely to strengthen the roots



COCKLEBUR, OR SAND BUR.
(Xanthium Canadense) Drawn from nature for this article by an Eighth grade pupil of the State Normal training school.

Instead of killing the plant. Salt, coal oil, or acid put on freshly cut roots will be effective. If all leaves are pulled as fast as they appear, the root will finally starve. Dense, sod-forming grasses will smother many kinds of weeds. Exposing roots to the sun by plowing is often sufficient, but merely breaking off the stems and leaves of weeds, generally aids in their multiplication and spread.

THE COCKLEBUR.
One of the worst of our weeds is the cocklebur. Its most conspicuous feature is its large bur, about an inch in diameter, with hooked spines that enable it to attach itself to the wool of animals and to be carried everywhere. The bur is a nuisance in the value of their wool, and is considerable from the abundance of this worthless pest. It



RUSSIAN THISTLE IN ALL STAGES.

a. Mature branches in autumn. b. A young plant. c. A flower. d. Fruiting stage. e. Seed pod. f. Embryo or young plant. g. Seedling. h. Young plant. i. Young plant. j. Young plant. k. Young plant. l. Young plant. m. Young plant. n. Young plant. o. Young plant. p. Young plant. q. Young plant. r. Young plant. s. Young plant. t. Young plant. u. Young plant. v. Young plant. w. Young plant. x. Young plant. y. Young plant. z. Young plant.

is a coarse annual, with branching stems, which often bear brown spots. Its leaves are either heart-shaped or egg-shaped, and three-ribbed, with

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- CANTON FLANNEL—Good width well fleece, 10c regular. Special price a yard..... 7 1/2c
- OUTING FLANNEL—All our 10c and 12c quality, special a yard..... 9c
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- LADIES' VESTS AND DRAWERS—Ribbed, good value, during sale each..... 22c
- FLANNEL SKIRTS—Made of outing flannel. Big bargains to close out, only..... 20c
- FLANNEL NIGHT GOWNS—Made of outing flannel. We are going to close out this lot for..... 43c

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- BED COMFORTS—Full size, well filled; \$1.43 regular price. Special..... \$1.23
- BED COMFORTS—Large size, pretty patterns, good value at our regular price, \$2.35. Special price..... \$1.98
- BLANKETS—All of our blankets, regardless of value will be reduced during this sale..... 20%

DRESS GOODS SALE.

- All our 25c and 35c Dress Goods in plaids, stripes and figures we will sell during this sale for a yard..... 25c
- Special in fancy figured and checks, suitable for children's dresses, on sale a yard..... 12 1/2c
- All our regular 50c and 60c Dress Goods in novelties and solid colors we will sell a yard..... 37c

DISHES GREATLY REDUCED.

NOW IS THE TIME TO BUY.

Our beautiful White and Gold Decorated Ware, the most admired of all. We have placed on sale:

- MEDIUM SIZE DINNER SET. Contains the following: 6 Pie Plates, 12 Breakfast Plates, 12 Dinner Plates, 12 Cups and Saucers, 6 Dinner Plates, 6 Cups and Saucers, 6 Sauce Dishes, 6 Individual Butters, 1 Oblong Vegetable Dish, 1 Round Vegetable Dish, 1 Covered Dish, 1 Large Size Meat Dish, 1 Small Meat Dish, 1 Large Meat Dish, 1 Sugar Bowl, 1 Cream Pitcher, 2 Bowls, 1 Gravy Dish, 1 Gravy Dish. Regular price for this set is \$7.45, Sale Price..... \$5.98
- LARGE SIZE DINNER SET. Contains the following: 12 Pie Plates, 12 Breakfast Plates, 12 Dinner Plates, 12 Cups and Saucers, 12 Sauce Dishes, 12 Individual Butters, 1 Oblong Vegetable Dish, 1 Round Vegetable Dish, 1 Covered Dish, 1 Large Size Meat Dish, 1 Small Meat Dish, 1 Large Meat Dish, 1 Sugar Bowl, 1 Cream Pitcher, 2 Bowls, 1 Gravy Dish, 1 Gravy Dish. Regular price for this set is \$13.19, Sale Price..... \$10.57

THIS IS YOUR OPPORTUNITY.

Beautiful floral design in dainty tints and shades, gold trimmed, on Sale:

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- LARGE SIZE DINNER SET. Contains the following: 12 Pie Plates, 12 Breakfast Plates, 12 Dinner Plates, 12 Cups and Saucers, 12 Sauce Dishes, 12 Individual Butters, 1 Oblong Vegetable Dish, 1 Round Vegetable Dish, 1 Covered Dish, 1 Large Size Meat Dish, 1 Small Meat Dish, 1 Large Meat Dish, 1 Sugar Bowl, 1 Cream Pitcher, 2 Bowls, 1 Gravy Dish, 1 Gravy Dish. Regular price for this set is \$11.82, Sale Price..... \$9.46

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THE LAW IN OREGON.

The Oregon law provides for the destruction of the Oregon variety, the dagger cocklebur, as follows: Sec. 4208. "It shall be the duty of the supervisors . . . to cause the destruction of the



THE BURDOCK, LAPPA MAJOR.

A troublesome weed first introduced into Utah as a medicine. Drawn from nature for this article by Eighth grade pupils of the State Normal training school.

weed known as the dagger cocklebur, where such weed shall be found growing upon the public highways." "Sec. 4211. The owners or occupants of lands shall carefully extirpate such weed when the same is found growing upon the land of such owner or occupant," etc.

"Sec. 4212. It shall be the duty of municipal corporations and county authorities to provide for the extermination of the said cocklebur," etc.

"Sec. 4213. It shall be the duty of the several district attorneys to prosecute," etc.

The growth of the cocklebur at first is slow and, as it needs light and room to develop into a robust plant, it may be choked down by any quick-growing crop that will crowd and shade it. In permanent pastures and waste places, where it flourishes best, it could be

eradicated in time by mowing the plants about twice each year, in August and September, or by cutting them up with a hoe or spade in May and June. As the seeds often lie dormant in the thick-walled bur several years before germinating, it might require a like period to exterminate a patch by this method. The young plants should be pulled up in cultivated or soft soil.

THE BURDOCK.

The burdock was originally brought to Utah for a household medicine and it has certain medicinal properties. Its roots and leaves are used in blood and skin diseases, and the fresh leaves are applied externally upon swellings and ulcers. Burdock is one of the most common weeds, and was introduced from the Old World. It is a coarse, unsightly biennial, which grows from three to seven feet high, with a round, fleshy, grooved and hairy stem, leaves often 18 inches long, alternate, on long deeply furrowed leaf stalks; thin, roundish, oval, or heart shaped, with even, wavy, or toothed margins; smooth above, and pale and woolly beneath. Flowers purple, in heads armed with hooked tips, which make them almost as great a pest as the cocklebur. One plant may bear 400,000 seeds. Seeding should be prevented and the plant should be grubbed out in summer, taking care to cut the thick root. At this season, the coarse burr will cling to the wool of animals, and be productive of annoyance and loss to flockmasters.

THE PRICKLY LETTUCE.

The prickly lettuce is a plant very common here. It resembles garden lettuce. Its principal leaves point north and south, whence its name, the compass plant. It has a white, milky juice; leaves prickly along the midrib; grows from two to six feet high; flowers yellow and inconspicuous, less than half an inch in diameter and only a few open at a time. The seed with its covering is dark brown, one sixth of an inch long, with a beak and papus of fine hairs, with which it flies through the air. The air bears five or six roughened ridges. The young plants are eaten by sheep and cattle. Repeated mowing before seeding is recommended, or thorough cultivation with a hoe crop. Care should be taken not to plow under the mature plants, which would always be burned before plowing. It is important to prevent this plant from seeding, since its downy seeds fly everywhere when fully ripe.

THE COMMON THISTLE.

The common thistle grows almost everywhere, especially in pastures and along roadsides, but is less common here than the prickly lettuce. The first year it sends up a tuft of spiny leaves that spread flat on the ground;

the second year its stalk arises two to four feet high. It bears a purple flower one to one and a half inches in diameter, with leaves about as wide and cobwebby, with prickles on the margins and also upon the involucres. It flowers from June to August and seeds all November. It should be prevented from seeding and may be killed by cutting it off just below the ground or by repeated mowing.

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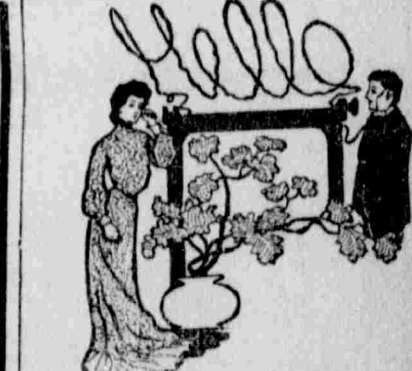
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