

base may be erect or reclining in growth, and reaches a height of from three to six feet; stems spring from a bulb-like perennial root, and after flowering, in midsummer, soon die down; leaves are from two to three feet long, smooth and glaucous, sometimes with a purplish cast, two or three times divided; the leaflets are borne on the upper third of the leaf, there being generally from four to six pairs, are oblong and lance-shaped, about two inches in length, three-quarters of an inch in width, coarsely toothed, sometimes unequally divided or lobed, and with small veins running from the midrib to the notches in the edge of the leaflet. The plant blooms in the summer and bears an umbrella-shaped cluster of small white flowers at the end of a long stalk or peduncle; from the blossoms, broadly ovate, kidney-shaped, ribbed fruits about one-eighth of an inch long are formed, which when cut crosswise show minute tubes containing an aromatic oil, much like that in the seeds of the common parsnip, and the seeds in these fruits are small, nearly cylindrical in shape and have a slightly hollowed face.

The above minute description of the top is to enable one to distinguish between the cicuta and other parsnips, but there is a more sure indication in the root. It is bulb-like in appearance, two to four inches long, and one or two inches thick. In color the exterior is a dark purplish green, the interior a yellowish white; the flesh firm and bearing an abundance of reddish aromatic oil, having a decided parsnip odor; the root bulb is only partly under ground, and emits long fibrous roots from beneath. The poisonous property of the plant, cicutoxine, is found in the oil of the bulb.

The cicuta is found in Oregon and Washington in marshy or wet places, both on the seashore and in the mountains. It frequently grows along the banks of coast rivers or inlets, but is quite common about the lakes of Southern and Southeastern Oregon. It is so plentiful throughout all of Western Oregon that it is dangerous to cattle during the spring in uncultivated, marshy pasture land.

The number of cattle killed yearly in that state by cicuta is about 100. As it grows early, cattle in searching for green herbage find the cicuta and pull the root from the ground by the top, thus getting to the poisonous part. The cicuta is poisonous to human beings as well as brutes, and a few instances were cited where deaths have occurred from mistaking cicuta for horseradish or artichokes.

In testing its poisonous properties, cattle at the station were used. The first, a heifer, died within one and one-half hours. The second, a yearling calf, when it began to show strong symptoms of poisoning, tests of antidotes were made. An ounce of spirits of turpentine in a quart of milk revived the animal after it had fallen in a spasm so that it could walk, but it soon fell again. A repetition of the dose revived it again for a short time, when a full dose of tincture of aconite with a quart of milk was given, without visible effect. A hypodermic injection of nitro-glycerine was also fruitless. The popular remedies of lard, grease, flour and milk in districts where animals die from cicuta, are not thought effective where an animal has a good dose of the poisonous root, in its most virulent state.

Some of the cicuta received at the station was planted in the greenhouse, to keep until it was required again, and, to the surprise of the experimenters, it was absolutely ineffective after it had grown a short top. The deduction was reached that growth destroys its poisonous properties, and that it is destructive to animal life only a short time in the late winter or early spring, just before or about the time it begins to sprout. The eradication of the plant by pulling it from meadows and marshes is urged as a protection to stock until some antidote is discovered.

John B. Agen, wholesaler in dairy products, Seattle, has placed J. A. Woll in his establishment. Mr. Woll has been for some time manager of the creamery at Stanwood and is quite popular among the dairymen of the state. He is to operate for Mr. Agen a system of grading, by which all butter is classified according to its merits.

The Queen City Creamery of Seattle, under the management of George T. Kienstra, is manufacturing 2,500 pounds of butter per week. No milk is received at the Seattle headquarters, but cream is shipped in from Ellensburg, South Bend, Grand Mound, Auburn, Woodenville, Bothell, Elliott, Wayne and Orillia.

SPECIAL COLUMN.

Advertisements in this column, 75 words or less, 50 cents each insertion per month, \$1.

Attention!—Those desiring choice peaches, pears, apples, etc., can purchase same in any quantity direct from my farm, 3½ miles from North Yakima, in Natchez valley. Good quality, good measure and reasonable prices. E. G. PECK. P. O. address, North Yakima.

Agents Wanted.—Good, live canvassers can obtain steady employment by applying to RANCHE AND RANGE, Seattle, Wash. We are engaging agents to solicit subscriptions in every part of the Northwest and pay first-class wages. Applicants should bring references.

Sure Cure for Liquor and Morphine habits. Room 25 Blalock block Spokane, Washington.

JONES' Cash Store

September number of the BUYER'S GUIDE now ready. It contains SIXTEEN pages of valuable information; the latest prices on all articles for the home;

Market Reports... Future Crop Prospects

All of interest to the producer of farm products. Sent Free to any address on application. Send in your name. Our article on "Wheat and Wool" this issue is of the greatest importance to you if you are a producer.

Special Freight Rate to Our Customers.....

We make you a freight rate to your nearest station of 15 cents per 100 lbs. less than the regular railroad rate on all orders of \$20 and over. Send for the September Guide with full information.

New Grain Bags, 5 Cents.

...F. A. JONES...

JONES' CASH STORE 105 Front Street
Portland, Ore.

ERNEST PEYCKE JULIUS PEYCKE

Peycke Bros.

BROKERS AND COMMISSION MERCHANTS

Pacific Coast Products. Green and Dried Fruits, Canned Goods, Honey, Etc.

OMAHA, NEB. DES MOINES, IA.

Warehouse on track. No cartage. Liberal advances made on consignments. No storage charges.

First-class References furnished upon application—

W. M. Darlington W. L. Darlington W. H. Darlington

Darlington Livestock Commission Co.

Ship your Cattle, Sheep and Hogs to us. Fair treatment, top prices and quick returns

CHICAGO ILLINOIS