

# OF THOUSAND HEADED KALE

ONE OF THE VALUABLE GREEN FEEDS FOR HOGS

Oregon Agricultural College Asks for Report of Success in Kale Growing and Description of Methods and Conditions Used in Polk County.

(By H. D. Scudder)

This kale is chiefly valuable as a green feed for hogs, cows and of poultry through the winter from November or October to April. The better types of plants endure the Willamette Valley winter weather without injury, yielding from 30 to 40 tons of succulent and nutritious green feed per acre under favorable conditions. It may also be grown for summer green feed, although less successfully.

A deep, well-drained, rich loam soil is best for this crop but the ordinary valley clay loam soil, if well drained, thoroughly tilled and heavily manured, will produce excellent yields. If possible a long narrow, slightly sloping field, running lengthwise of a piece of sod ground, or a wide sodded fence row, or one of the farm lanes is preferable, as this permits easier hauling during the wet winter weather.

The kale ground should be heavily manured and deeply plowed in the fall if possible, and re-plowed once early in the spring and again before transplanting. If fall plowing cannot be done, manuring during the winter and spring and deep early spring plowing repeated twice before transplanting, will put the ground in good shape. Following the second plowing the ground should be kept clean of weeds and thoroughly mulched to conserve the moisture, by frequent light harrowing until transplanting time.

For transplanting the seed should be sown in drill rows about three feet apart, as early in March as it is possible to get on the ground. If possible a strip of the best drained ground on the farm should be used for growing the young plants, and this should be manured in the fall so that it need only be re-plowed and worked down at once for the seed in the spring, thus getting the plant started as early as possible. One pound of seed will furnish enough plants for an acre.

Transplanting should be done about June 1st, if possible, when the plants are 6 to 12 inches high. Later transplanting is liable to be held back by

the dry weather so much as not to be ready for cutting in early fall. With the ground in fine tilth, transplanting of small acreage may be done rapidly by hand with a long bladed spade, care being taken not to injure the roots in taking them up from the drill row, and replacing them in the new ground. They should be placed three feet apart each way, covered a little deeper than the drill row, the soil firmed around them with the foot and later when wilted down, the whole field should be rolled. Plants should be left every three feet in the original drill rows and all extra plants saved for replacing those that may not survive transplanting.

Transplanting of larger acreage may be done by plowing and placing the plants three feet apart in every third furrow, covering the roots but not the leaves, with the next furrow turned and following the day's work with a roller. Missing plants may be replaced later by hand.

Instead of transplanting the seed may be dropped in hills three feet apart each way, several seeds to the hill, as early as the ground can be thoroughly prepared. Later each hill should be thinned, leaving one vigorous plant. As a rule this method does not give as good yields as transplanting.

After transplanting or thinning the field should receive frequent shallow cultivation to conserve the moisture until the plants branch out so far as to prevent their further tillage.

In October or November after the green corn has all been fed the kale, although not fully grown, will be ready for feeding. The plants should be cut off at the ground with an ax or slash, and the entire plant tossed on to the wagon or sled and hauled to the feeding place. Enough may be cut at one time for one or several days' feeding. Frozen kale should be allowed to thaw out before feeding. Where it is thought the older plants may taint the milk they should be fed immediately after milking. 40 pounds of kale per day with 20 pounds of good hay, such as vetch and oats, fed in two portions, makes an ideal ration for milk cows, very little or no mill feed being needed. The kale may be fed as needed clear through the winter until April or later. For summer feeding seed may be fall sown and transplanted early during July, August and September. Unless the ground could be irrigated, however, once or twice the yields are not so heavy at this season.

Stripping of the lower leaves of the kale as a regular practice is not recommended it is extremely laborious especially during wet weather, puddles the soil badly and causes the stripped plants to suffer from frost. However, where green feed run short in September the larger lower

leaves of the kale may be stripped off for feeding at this time and later as wet weather comes on and the plants grow larger it pays to abandon this as an ax.

As well bred seed cannot as yet be secured upon the market it is very important that the grower should select five or ten of his very best plants and let them go to seed. From 20 to 50 different types of kale plants have been grown from one small packet of commercial seed. Some of these types are excellent in quality and yield, the majority, however, are worthless. To get good seed the grower must select a good parent plant, those of good size, weighing from 40 to 50 pounds each, with medium sized, smooth green leaves, the main stem branching out close to the ground into innumerable stems and leaves in all stages of growth. Only plants which go through the severest frosts without any injury should be selected. These plants selected during the first year should be replanted early in the spring the second year in some fertile spot where they will not be cross pollinated by other kale plants, wild turnips, rape, mustard, and similar closely related plants. The seed will be formed the second year and should be harvested when the plants have dried out and the seeds are brown, and threshed out by hand over a canvass. One good plant will furnish sufficient seed for about an acre of kale plants.

A report of your success or failure in growing kale, with a description of your method and conditions, would be greatly appreciated by this station. Kindly address such report to the Department of Agronomy, Oregon Agricultural College, Corvallis, Oregon.

During the spring everyone would be benefited by taking Foley's Kidney Remedy. It furnishes a needed tonic to the kidneys after the extra strain of winter, and it purifies the blood by stimulating the kidneys, and causing them to eliminate the impurities from it. Foley's Kidney Remedy imparts new life and vigor. Pleasant to take. For sale by P. M. Kirkland.

## OREGON BRIEFLETS

Roseburg—Roseburg Masons will build a \$20,000 temple here this spring.

Pendleton—Two lots of 9000 bushels of wheat have just been reported sold in this county at prices of 98 cents and a dollar a bushel.

Oregon City—Plans were perfected at a banquet for the raising of a \$10,000 publicity fund to be used in exploiting the attractions of Oregon City and Clackamas county.

Silverton—Frightened at a gasoline wood saw, two miles south of Silverton, L. D. Kelley's team ran away Saturday, throwing him from the vehicle and breaking his neck.

Salem—It is stated that the Salem, Falls City & Western railroad, which is now completing its line between this city and Dallas, will operate gasoline motor-cars on its line to handle the passenger traffic.

Salem—In accordance with a custom established in 1903, the supreme court has issued a docket to be tried during the coming summer. There are about 70 cases and these will occupy the attention of the court until the October term.

### AOKI PURCHASES COTTAGE

Prepare to Keep House in Suburb of Seattle.

Seattle, Wash., April 13.—Gunjiro Aoki and bride have purchased a cottage at Dunlap, a suburb of this city, and will make it their future residence.

Mr. Aoki will go into business here as assistant manager of an Oriental trading company. Neither he nor his bride has been out of the city since their marriage several weeks ago. They had planned to take a honeymoon trip to Hood's Canal, but this was abandoned and the couple have been staying at a Japanese lodging-house in the Oriental quarter.

### Warship Again in Commission.

New York, April 15.—Thoroughly overhauled so that she appears like a new vessel, the old battleship Massachusetts steamed away from the Brooklyn navy yard today, after having been out of commission for more than two years. The Massachusetts is a sister ship to the Indiana and Oregon and was built in 1893. She will have a complement of about 500 men and officers.

For kidney trouble, inflammation of the bladder, rheumatism, and rheumatic pains, get DeWitt's Kidney and Bladder Pills. They act promptly and are sure. Sold by all druggists.

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20 per cent reduction on lace curtains this week and next at Conkey, Walker & Lehman's.

## NEWS FROM THE NATION'S CAPITAL

THE PAYNE TARIFF BILL IS THROUGH HOUSE.

FREE LUMBER FINALLY LOST

Senate Revision Will Be More Thorough—Committee Cuts Rates in Many Instances.

Washington—After three weeks of consideration the Payne tariff bill was passed by the house of representatives amid great excitement. An attempt by Champ Clark, minority leader, to recommit the bill with instructions signally failed. The situation with respect to lumber was great relief to the Republican leaders when it became manifest that the advocates of placing it on the free list were in the minority.

The bill was introduced on March 17, reported to the house by the ways and means committee on the following day and was under general debate for 16 days.

One of the principal changes in the bill was the placing of petroleum on the free list. Among other important amendments made since the bill came from the committee were those striking out the provision for a duty on tea and the countervailing duty provision on coffee.

The drawback section was added to the bill so that it could not be taken advantage of for speculating in grain, and the Philippine free trade provision was amended so that rice will not be admitted free from the islands.

The countervailing duty clause on lumber was stricken out, but a strong effort to place lumber on the free list did not succeed.

The duties on barley malt, pineapples in crates and cotton collars and cuffs, as originally in the bill, were increased. A proviso was included in the tobacco schedule increasing the duty on filler tobacco from any county which prohibits the importation of American tobacco.

There were several technical changes in the steel schedule, principally downward. Hides, hosiery and gloves were left as reported by the committee, hides remaining free and an increased duty being presented for gloves and stockings. The contest over free petroleum was stubborn, but the vote in its favor was overwhelming.

The estimates of the revenues which the Payne tariff bill will produce have been reduced nearly \$20,000,000 through the amendments made by the house. The senate finance committee must provide means for making up this difference.

The senate tariff bill, so far as rates are concerned, is complete, but it was decided that in making a report, Chairman Aldrich will announce a reservation of certain important schedules for future action. These reservations will include hides, steel rails, wood pulp and crude petroleum.

Aldrich asserted that the senate committee had made a more general revision of rates than was made by the house committee on ways and means, and that reductions had been made on a greater number of articles. This did not mean that there would be a reduction of revenue, but there would be recommended a bona fide revision downward of the tariff.

In the report made to the senate, hides will go on the free list, as provided by the Payne bill, but a question of fixing a rate in accordance with the sentiment of the senate, as expressed through a canvass taken by Western senators, will be taken up in the near future.

No decision has been reached on the subject of wood pulp. The same is true of crude petroleum.

The duty on lumber also promises to occasion debate in the senate, and while no change from the Payne bill will be recommended, it is predicted that a number of amendments will be offered on the floor of the senate.

Protests made by heavy importers of gloves and hosiery against the increase made by the Payne bill over the existing Dingley rates, as well as protests made by thousands of women throughout the country, induced the senate committee to agree to recommend continuance of the Dingley rates.

The prospect for an appropriation by congress to meet President Taft's expenses on an extensive trip to the West are improving. Senator Jones of Washington, has stated that he will endeavor to have \$25,000 allowed in the urgent deficiency bill.

Ethan Allen Hitchcock, secretary of the interior under Presidents McKinley and Roosevelt, died here last week, aged 74 years.

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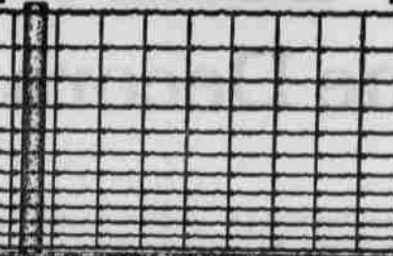
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JULIUS, his servant, . . . . . WORD BUTLER  
NEB, his servant, . . . . . FRANK SKINNER  
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