ORE MILK TESTING.

fessor Farrington, of the Illinois Station, Manages It.

r E. H. Farrington has found of testing, all at one time, f the milk brought by each ring the seven days of the has found a way to test such milk can be neutralized and the rest. He writes of the Hoard's Dairyman:

oints which I have not previously and which have developed during n milk testing, are: 1. The use of e for getting sour milk into proper r testing. 2. The substitution of s tubing in the automatic pipette t for measuring the acid used with k tester.

matic pipette has already been fig- scribed in Bulletin 14 (Illinois ex- ation), and since then the practical f it has been clearly demonstrated d use. The use of a lead tube for the bottle of acid with the auto- te removes the possible danger of glass tube, which was formerly sug- he purpose. I am now using a lead , which has an inside diameter of d an outside diameter of 5-16 inch. tions of the lead tube to the pipette e made with rubber tubing or hose, walls at least 3-16 of an inch thick, rely wired to the lead tube and

e well set up, this makes almost an gement for those who have used it ies and other places where milk test- done continually. It keeps the acid tap, and in a closed bottle or carboy, vents contamination or dilution of absorbing moisture from the air. the exact quantity of acid into each is automatic, and there is very little spilling the acid on the hands or

tigations on composite samples of d that it was not necessary to add rative to the milk to be tested. was a week old, sour, the curd and rated, was tested with entirely sat- sults. This I found could be done ing the acid developed in the sour dissolving the separate curd. Theical and common chemical for this seems to be "powdered lye" (98 per tic soda), which is sold by nearly all y making soap from grease.

ils of my work on testing the com- mples of the milk brought by each a creamery are soon to be published ulletin of this (Illinois) experiment sta- The work shows that a weekly test of brought by each patron is a great er than no test. Also, when patrons the test plan, the test of a compo- le is very much more accurate than a nce in a week. For instance, a patron 4,188 pounds of milk to a creamery week. The milk brought by him on f the week showed by the test 4 per butter fat. Three days later the milk by this patron tested 4.6 per cent. but- f he was paid by a weekly test for the brought during the week, and this test made on Tuesday, his account would d be had brought to the factory 4 per 188 pounds, which is equal to 167.52 butter fat. But if the weekly test made on Friday, when his milk test- cent. fat, his record would stand 4.6 of 4,188 pounds, equal to 192.65 pounds fat—a difference of 25.13 pounds of in the total amount for the week as the two days' test. The complete this patron for the week was as fol-

	Milk. Lbs.	Test. Butter fat. Per cent.	Butter fat. Lbs.
	650	4.00	26.00
	590	4.00	23.60
	596	4.40	25.78
	567	4.00	22.68
	592	4.50	26.64
	595	4.30	24.99
	540	4.40	23.76
Total,	4,188	Average, 4.30	Total, 179.85

t of the milk every day shows that brought this particular week a total ounds of butter fat to the creamery. g this with the amount found by ing the total pounds of milk—4,188, by t, the average of the seven daily per ves 180.08 pounds butter fat, which is y the same quantity as found by the

the test of a composite sample of this responds with the average of the ser- tests, the variation in the milk from y does not vitiate the accuracy of the In this particular case the composite showed by the test 4.3 per cent. of but- This same trial I made with each of atrons with equally good results.

suggest the following arrangement g the jars in which the composite r each patron is collected:

three circular shelves one above the pported at the center, and revolving central support. One jar for each stinctly labeled with his name, and t on the outside edge of the circu- s. These circular shelves containing ss be set near the weighing can, and weighing the milk can turn the shelves atron's jar he is looking for comes k reach.

Plants That Flavor Butter.

he which should be the dairy- favorite, owing to the sweet scent- grance it communicates to the the Vernal grass (anthoxanthum m). It springs up early in the flowers and scents the air with rance. As a grass for exclusive it will not rank high, but when properly with the other more nu- grasses it gives a fragrance to le mass which is very delightful. ass probably flavors milk, cream tter so directly and noticeably as est scented Vernal grass, and it is found in abundance in the rowing along with the other vari- e butter made from that section stinguishing and exquisite taste. this grass is mowed and stowed n the silo with other grasses it a splendid milk food for winter On large dairy farms it is well the trouble to scatter some of the f the Vernal grass in the pastures. lt in the flavor of the milk and will soon be noticeable. Where butter is made a specialty this an essential to the pastures.

fragrance of the grass is due to ence of gum benzoin or benzoic which can be dissolved in cold Butter washed in water in the grasses have been soaking e its rancidity to a large extent. e butter is often destitute of true and it can only be flavored by al methods or by adding some fragrant grass to the silo which part its sweetness to the milk be- leaves the cows.—E. P. Smith in ican Cultivator.

Guaranteed Cure for La Grippe.

We authorize our advertised druggist to sell you Dr. King's New Discovery for Consumption, Coughs and Colds, upon this condition. If you are afflicted with La Grippe and will use this remedy according to directions, giving it a fair trial, and experience no benefit, you may return the bottle and have your money refunded. We make this offer, because of the wonderful success of Dr. King's New Discovery during last season's epidemic. Have heard of no case in which it failed. Try it. Trial bottle free at G. A. Harding's Drug store. Large size 50 c. and $1.00.

Faults of digestion cause disorders of of the liver, and the whole system becomes deranged. Dr. J. H. McLean's Strengthening Cordial and Blood Purifier perfects the process of digestion and assimilation, and thus makes pure blood.

Now is the time to provide yourself and family with a reliable remedy for bowel complaints. It is almost certain to be needed, and no family can afford to be without it. It costs but a trifle and may be the means of saving much suffering, if not life. There are many different remedies in use, but Chamberlain's Colic, Cholera and Diarrhoea Remedy is undoubtedly the best. 25 and 50 cent bottles for sale by G. A. Harding, Druggist.

Bucklen's Arnica Salve.

The Best Salve in the world for Cuts, Bruises, Sores, Ulcers, Salt Rheum, Fever Sores, Tetter, Chapped Hands, Chilblains, Corns, and all Skin Eruptions, and positively cures Piles, or no pay required. It is guaranteed to give perfect satisfaction, or money refunded. Price 25 cents per box. For sale by G. A. Harding.

Japan has 2000 newspapers. Not a single journal existed there twenty-five years ago.

Hail storms do not occur in well-wooded districts, according to the observations of a noted Swiss forester.

The largest reservoir or artifical lake in the world is the great tank at Dhebar, which covers an acra of twenty-one square miles.

A queer old man in San Fransisco, although he has the whole of a rickety tenement to himself, habitually sleeps in an old Saratoga trunk four feet long.

Two Frenchman, the Brothers Forre, have invented a new kind of harp, made entirely of wood. Instead of strings the inventors use strips of American fir.

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September 11, 1890.

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OFFICE NEXT DOOR TO POST OFFICE

TIMBER LAND ACT, JUNE 3, 1878.

United States Land Office, Oregon City, Oregon, April 11, 1891.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the States of California, Oregon, Nevada, and Washington Territory."

Charles Y Draper,

of Oregon City, county of Clackamas, has this day filed in this office his sworn statement No 2366, for the purchase of the nw¼ of se¼ and ne¼ of sw¼ of section No 28 in township No. 3 south, of range No 3 east and will offer proof to show that the land sought is more valuable for its timber or stone than for its agricultural purposes, and to establish his claim to said land before the Register and Receiver of this office at Oregon City, Oregon on Tuesday, the 25th day of August, 1891.

He names as witnesses: N. Simpson of Portland, J. T. Mason, of Viola, Oregon, J. W. Draper, of Oregon City, Oregon and J. M Parrish, of Highland, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 25th day of August, 1891.

J. T. Apperson, Register.

6-5:3-7

TIMBER LAND, ACT JUNE 3, 1878.

UNITED STATES LAND OFFICE, OREGON CITY, Or., Apr. 4th 1891.

Notice is hereby given that in compliance with the provisions of the act of Congress of June 3, 1878, entitled "An act for the sale of timber lands in the states of California, Oregon, Nevada, and Washington Territory,"

David O'Donnell,

of Portland, County of Multnomah, state of Oregon, has this day filed in this office his sworn statement No. 2364, for the purchase of the nw¼ of section No. 4 in township No. 2 south in range No. 7 east, and will offer proof to show that the land sought is more valuable for its timber or stone than for agricultural purposes and to establish his claim to said land before the Register and Receiver of this office at Oregon City, Oregon on Friday, the 21st day of August, 1891.

He names as witnesses: G W Morine, of Central point, Oregon, and F Bell, T C O'Donnell, and T Gibson, of Portland, Oregon.

Any and all persons claiming adversely the above-described lands are requested to file their claims in this office on or before said 21st day of August, 1891.

J. T. APPERSON, Register.

6-5:3-7