AGRICULTURAL.

Mr. W. P. Pierson, in an article on the philosophy of underdraining, says that thought, observation, and recent experiments hove brought him to the conclusion that "the job of finishing up this world can never be completed until a considerable portion of it is well under-drained; and I do not know but I am safe in saying, until it is well tile-drained. Very certain it is that there are immense and untold resources in air and earth, all intended for the benefit of the human race, that can never be made available for the purposes for which they were intended until a vast amount of ditching is done. Nature has already provided, on a magnificent scale, for the under-drainig of extensive tracts of country; but the richer, the better, the greater portions of earth's surface can never be drained by any channels now existing, or that nature ever can or will provide. This is a task that is assigned to man."

There is a crude notion prevailing that hardships make young stock hardy. A colt that is weaned in the fall, as is commonly the case, should not be allowed to become poor in its first winter. It is true that it will often improve so rapidly in the spring that its wretched condition during the winter will seem really to have been an advantage to it, but this is a grave mistake. If the same conditions were imposed during the whole period of growth, the effect would be very perceptible. Although the summer may in some degree remove the effect of winter, no animal so treated ever becomes what it might have been in size, symmetry of form, and usefulness, as it would had it received generous treatment. As a general rule, it costs no more to raise a good colt than a poor one, while the former will bring two or three times as much as the latter.

Summer and early fall pears should be harvested as soon as they commenc ripening on the tree, and be placed in a dark, cool room until ready for use. This process serves to elaborate the juice and sugar, but if left on the tree until mature, most kinds will become mealy and fibrous. Not so with early apples; a contrary practice should be adopted with them; for instance, the early apple should be allowed to become perfectly ripe before being gatherd. With late varieties, both of the apple and pear, it is best to allow them to remain on the tree as long as possible without injury from frost and gales; but when the folliage has fallen or is destroyed by frost, the functions of the tree are arrested, and no further advantage to the fruit can be derived.

Mr. Joseph Sullivant, in an article on hog-feeding estimates the return of pork from a bushel of raw corn at 9 pounds, and that his experiments prove that corn ground into meal increases in value about 33 per cent. over that of corn fed in the ear; and thoroughly cooking and steaming the whole corn raises its value to but little less than that of cooked meal, which he estimates at 66 per cent. over that of raw corn fed in the ear; and the same rule will apply to other grains. It is true that grinding, steaming, or cooking the grain can in no wise add a single atom to the elements already existing; it raises the value only by rendering the whole nutrative matter available by making it more soluable and of easier digestion, so that the maximum of notrition is more readily and certainly obtaindd.

There is no excuse for the production of poor butter on account of defects in pastures; the fault is not often there, though it may sometimes be in the very bad quality of the water, and sometimes, though we must believe more rarely, in the presence of noxious or unsavory weeds, and even more rarely still in inherent peculiarities of the cows. But the great prevailing difficulty is in unskillful manipulation. It makes no difference how good the milk is, it will not make good butter unless properly treated.

An attorney observed to a brother in court that he thought whiskers very unprofessional. "You are right," replied his friend, "a lawyer cannot be too barefaced."

Mail Directory.

Arrives from the north daily at 12 m.
Departs both ways at 10:30, a. m.
From Portland *via* Taylor's bridge and Newberg, weekly. Arrives at 6 p. m., on Saturday. Departs at7 a. m., on Friday.
Dayton 6 times a week. Arrives at 3 p. m. Departs at 4.

Yamhill County Directory.

County Judge.....M. M. Ramsey
Clerk.....R. H. Lamson
Sheriff.....R. P. Bird
Treasurer.....J. M. Kelty
Co. Commissioners.....{ Dawson / Hulery
Surveyor.....C. Handley
Assessor.....I. Davis
School Sup't.....H. H. Hewit
Coroner.....Dr. Johnson

LEGISLATURE.

State Senator.....J. W. Cowls
Rep's.....{ T. R. Harrison / A. R. Burbank

OREGON OFFICIAL DIRECTORY.

EXECUTIVE DEPVRTMENT.

Governor.....L. F. Grover
Secretary of State.....S. F. Chadwick
Treasurer of State.....L Eleischner
State Printer.....Eugene Semple
State Librarian.....S. C. Simpson
Register of State Lands.....E. S. McComas

CONGRESSIONAL.

U. S. Senator.....James K. Kelley
" .....J. H. Mitchell
Congressman.....Jos. G. Wilson

FEDERAL OFFICERS.

U. S. District Judge.....M. P. Deady
U. S. Marshal.....Tho's G. Young
Clerk U. S. Court.....R. Wilcox
Surveyor General.....W. H. Odel
Sup't Ind Affairs.....T. B Odeneal
U. S. Assessor.....Thos. Frazer
U. S. Collector.....W. Bowlby

LAND OFFICERS.

W. R. Willis, Register.....Roseburg
B. Herman, Receiver..... "
Owen Wade, Register.....Oregon City
Henry Warren, Receiver..... "
J. H. Stephens, Register,.....La Grande
D. Chaplin, Receiver..... "

SUPREME COURT.

P. P. Prim, Chief Justice.....Jacksonville
A. J. Thayer.....Corvallis
B. F. Bonham.....Salem
W. W. Upton.....Portland
L. L. McArthur.....Baker City

JUDICIAL DISTRICTS.

First District: Jackson and Josephine. 2d District: Benton, Coos, Curry, Douglas and Lane. 3d District: Linn. Marion, Polk, Tillamook and Yamhill. 4th District: Clackamas, Columbia, Multnomah. and Washington. 5th District; Grant, Umatilla, Union and Wasco.

TERMS OF CIRCUIT COURTS.

First District—In the county of Josephine, on the fourth Monday in October; Jackson second Monday in February, June and November.

Second Distirct—Douglas third Monday in October, and seconed Monday in May; Coos, fourth Monday in May, and second Monday in September; Curry, first Monday in June; Lane, third Monday in April, and and first Monday in November; Benton, second Monday in April, and third Monday in November.

Third District—Linn, fourth Monday in March, and second Monday in October; Marion, second Monday in March June and November; Polk, second Monday in May, and fourth Monday in November; Yamhill, second Monday in April, and fourth Monday in October; Tillamook, second Monday in July.

Fourth District—Clackamas, fourth Monday in April and September; Multomah, second Monday in February, June and October; Columbia, second Monday in April; Clatsop, second Monday in August, and fourth Tuesday in January; Washington, fourth Monday in May, and first Monday in October.

Fifth District—Wasco, third Monday in June, and second Monday in November; Grant, first Monday in June, and third Monday in September; Baker, third Monday in May and first Monday in October; Union, first Monday in May, and third Monday in October; Umatilla, last Monday in April, and fourth Monday in October.

Circular to the Liberal Public.

WE PROPOSE TO PURCHASE OR erect in the city of Boston a building to be known as the PAINE MEMORIAL HALL, as a testimonial to the great services of THOMAS PAINE in the struggle for American Independence, and for Universal Mental Freedom. Said building to be suitable for stores, business offices, a Hall for Free Dicussion, Lectures Amusements, and finally, an office for the business purposes of the *Boston Investigator*. To accomplish this, we need the assistonce and contributions of all the friends of Paine and of the *Investigator*, and believing our readers and other Liberals to be of that number on whom we may rely, we ask their aid assitance by contributing liberally themselves and inducing others to do so. Subscriptions will be acknowledged in the columns of the *Investigator*. We have labored under many disadvantages during our connection with the *Investigator*, in providing suitable accommodations for our business and in securing a Hall for our Paine Celebration, and we appeal now to a Liberal public to come forward and help us to secure a permanent place for business and for holding our meetings.

Friends, Brothers, Sisters, the hour will come when *we* must cease from our labor.

The cause that the Proprietor and Editor of the *Boston Investigator* have expended their lives in, is an earnest voucher that not for *self* alone, but for *humanity*, they have worn away a life-time. And we invite all our friends to zealous and prompt action, as advancing age indicates that time waits for none. We all feel solicitous that our works shall live after we retire; and that our advocate of Freedom, our sturdy old *Investigator*, may still, for generations to come, sound our rallying cry—"For all Peoples, and all lands, forever Liberty."

J. P. MENDUM,
HORACE SEAVER,
T. L. SAVAGE,
M. ALTMEN,
D. R. BURT. } Trustees.

Boston, Oct. 9, 1872. jan3tf