STORING HAY. BY ALEXANDER HYDE. BY ALEXANDER HYDE.

The hay harvest is close at hand, and a Wayne County farmer wishes to know the best mode of storing hay, and especially desires information about what he calls haybarracks. Every way we consider the ricking and stacking of hay and grain a poor mode of storage. Our correspondent speaks of seeing many ricks last Fall in passing from New York to Philadelphis, and we do not wonder that they filled his eye, for they are significant of fat lands and overflowing barns. Any one, however, who has tried the different ways of storing hay—stacks, barns. Any one, however, who has tried the different ways of storing hay—stacks, ricks, and barns—looks upon the former with little favor. As a temporary expedient stacks may be tolerated, but we should never build ricks. A ton of hay e-most be picked up in one place and put down in another without more or less waste. The loss in avoirdupois, however, is much less than the loss of what the chemists call "thein," the volatile gas which escapes from hay and all

oirdupois, however, is much less than the loss of what the chemists call "thein," the yolatile gas which escapes from hay and all dry herbs when exposed to the air, and especially when stirred. It is this thein which gives tea its peculiar aromatic flavor and atimulating effect, and to prevent the escape of which the tea is kept in tight boxes, lined with lead. When the tea is steeped, the thein is extracted by the water, but, if steeped too long, this volatile substance flies off into the air, and the tea, as the old ladies say, is dead. In like manner hay from which the aroma has been dissipated by pitching and moving, if not dead, has lost half its virtue. The author of the Text Book for Agriculture says—and we consider him goed authority: "A good shed, adapted for hay above and for stock beneath, with proper racks, pays its own cost in three seasons in saving alone." Every farmer must have moticed that moved hay spends poorly, and the reason is that it has lost its aroma. The thein, which has vanished into thin air in the process of removal, does not possess thein, which has vanished into thin air in the process of removal, does not possess much actual nutrition, but it has the peculiar effect of atimulating vital action and preventing the waste of the animal tissues, and is therefere equivalent to food. Much of this thein is lost in the process of drying. Over-dried hay is like over-burnt coffee. The aroma has gone higher than the woodbine twineth. The true principle in curing and storing hay, therefore, is to expose it as little as possible to the winds and weather. If there is no dew or rain upon the grass when cut, nor any allowed to fall upon it after it is cut, the curing is a simple process, for the natural juices of the plant are easily so concentrated that they will not ferment. We wish to retain their juices so that the hay may be as near like grass as possible hay may be as near like grass as possible— green, tender, and succulent. Half the hay green, tender, and succulent. Half the hay we see is brown, woody fibre, cut too late and dried too much. Such hay may sell, for many purchasers think that green hay must necessarily be heavy, and they therefore conclude it is economical to buy the brown, crispy stuff. They don't know what good hay is so well as their horses and cows do. Put two locks of hay before a cow, one green and full of its natural juices, and the other brown and brittle, and she will turn up her nose at the latter, and roll the other as a sweet morsel into her stomach.

Our plan for curing and storing hay is to cut the grass when most full of its natural juices, that is when in blossom, and always after the dew is off: let it lie and wither till afternoon, then tedder, and before the dew begins to fall rake and gather into small conical cocks. If the grass is put into cock while dry and warm, the curing process goes on during the night, and the next morning, if spread after the dew has risen, an hour or two of annables will fit it for the mow. two of sunshine will fit it for the mow.

The tighter the mow is the better we like it.

If the bottom is comented, and the sides boarded with matched stuff and made air tight, the fermentation, if any, will be con-fined to the top of the mow, for air is abso-lutely essential to fermentation. The more hay put into such a mow in one day the bet-ter it will keep, for it will be more compact, ter it will keep, for it will be more compact, and less air can circulate through it. The farm on which we were brought up belonged to a clergyman, and it was the custom of his parish to turn out enmasse, make a bee, as it was called, and do the dominie's hayin one day. By day-light the music of the soythes—mowing machines were then unknown—was heard in the fields. After breakfast and tanzy bitters, came the teddering, and how the grass did fly. Bullard had not then invented his machine, but many hands made light work of tossing the hay about, and much tossing did it require, for it was full of dew. In the afternoon for it was full of dew. In the afternoon came the carts, and the crop was all stowed away before sundown. Some of the farmers shook their heads at this rapid mode of curing hav, and hinted about green hav and green clergyman, but the venerable clergyman was not so green as they supposed. For many years we fed out the hay thus stored, and never fed greener or better. True, it sometimes fermented at the top of

True, it sometimes fermented at the top of the mow, but the fermentation was confined to the surface. At the depth of a foot or two the hay was soft and green, and was caten with avidity by the stock.

Hav stowed on the scaffold or in a stack requires more curing than that put into a tight mow, as the air has greater access to it. Packed in a large deep bag it is preserved from fermentation as fruit is in a can. This the observing old eleganteen and executed. the observing old clergyman understood, for he ordered the greenest hay to be put in the centre of the mow, and the driest on the scaffold.

If hay must be stacked, build, up a plat If hay must be stacked, build, up a platform of old boards or rails on which the
stack can be placed, otherwise that which
comes in contact with the ground will absorb
moisture and be damaged. The shaping of
a stack is quite an art and should not be
trusted to a greenhorn. The best form is
that of a nen's egg with the small end upward, and if the top is thatched with straw
or coarse grass, stacking is as good as ricking and much cheaper.—N. Y. Times.

Revival near Scio, Linn Co.

Scro, June 26th, 1877. The Baptist Church, at Providence, seven miles southeast of this place, are having a successful revival. Revs. John Ostorn, David Lynch, J. D. South, and A. J. Hunsaker, have been ministerial aids in the work. The meeting has now been running ten days with but little sign of abstement; forty five have been added to the church; in age ranging from tender years of youth who were not adepts in crime, as the laws of men would define; to the aged fother and mother whose heads were frosted by many winters and who had not sought the ways of righteousness and God, to know. The backslider, too, has halted, and is taking a look into the has hatted, and is taking a look into the sinful depth of his own soul; is trembling upon the very verge of ruin and indicison. May he turn! to God, and lead a biameless life before men.

WM. CYRUS.

Horse-Powers .- The Pacific Threshing Machine Co. are still turning out those horse-powers, and we are glad to say that they find considerable sale for them.

MARRISD—At the residence of the bride's father, Henry Hampton, near Eda, Polk ex, on the 24th, June, 1877, by T. Pearce, J. P. Mr. T. M. Anderson and Miss A. O. Hampton, alll of Polk county.

It is said that Joseph Knott has said the excelsior mine in Buhemia, and his quartz mill there, to Kastern Capitalists for \$30,000.

Wheat and Wool.

There is nothing new of importance to report in connection with wheat. Prices offered in Oregon are based only on the home demand. Salem Mills still offer \$1.10 per bushel for old wheat, but there is no criterion from which to predicate the price for the coming crop. Liverpool quotations are wesker all the time. As to the European war, it looks very much as if all the Great Powers were looking on contentedly at the Easso-Turkish war, with a silent undersignifing that each is to profit by the divi-sion to be made at its close. That being the ca-a, no general war may be expected, and the market for breadstuffs will not be mate-

The market he breadstuffs will not be materially affected.

Wool has steadily advanced until good lots of wool here at Salem bring 27½ cents. The Boston and Philadelphia wool markets have shown constant improvement each day for weeks past. We are glad to see our wool-growers meet with commensurate profits. his, and hope they took our advice, or acted on their own judgment not to make too much haste to sell.

THE

PLUMMER FRUIT DRYERS. Patented April 1877.

THESE MACHINES ARE UNSURPASSED BY any other for Drying or Preserving Fruits and Vegetables of all kinds, and are constructed and fur-nished complete in four different sizes, namely:

The Family Dryer-capacity of 3 bushels

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These Dryers were awarded the Centennial Medal
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Patentee and Manufacturer.

jet5tf East Portland, Oregon.

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Jes Address F. B. DUNN, Eugene City.

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NOTICE--THE FOLLOWING RATES OF Freight on Grain and Flour have been established by this company as the maximum rates for one year from May 1st, 1877, v.z.:

Per Ton. Oregon City Butteville Champoog Dayton Fairfield Wheatland Lincoln Salem Eota Eora Independence Ankeny's Landing Buena Vista Spring Hill Albany Carvallis **********

ye-rs.
S. G. REED, Vice President W. T. & L.CO.
Pertiand, April 28, 1877.
May1-3n

NOTICE.

OREGON & CALIFORNIA RAILROAD.

THE FOLTOWING RATES OF FREIGHT ON Grain, Flour and Mitl Stuffs, in car loads, as per published tariff of the Company under date of January 2th, 1877, will be marinained as the maximum rates until May 31st, 1878, viz:

Per 100 lts.

Oregon City	**	
Rock Island	**	
Canby	**	tt cent
Aurora	**	ll cent
Hubbard	**	!! cent
Woodburn	**	11 cent
Gervala	**	
B ooks	**	
Salem	**	12 cent
Furner	**	
Marion	**	
Jefferson	**	
Miller's	41:	
A bany	**	
Tangent	**	
Shedd's	**	
Ha'sey	46)	18 cent
Moddy	**	
Harrisburg	**	
Junction	**	
Luper's	**	
Irving	**	
Envene	**	
Springfield	No.	33 cent
Goshen	**	
Cresswell	**	
Latham	**	
Comstock's	51	37 cent
Drain		
Yone dla	**	35 cent
Oskland	34	
Umpqua	***	35 cent
Roseburg	44	
R. KOaH Portland, O	LER, Vie	e at Portland. e Pres. O. & C. R. R. Co. ne 9th, 1877. jeifif.

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