is the parent of agriculture. It determines, on a small scale, the value of the principles on which an extended cultivation of the soil depends."

In garden vegetables, in fruits, in flowers, in shrubs, immense progress has been made within the past few years, mainly the result of propagating new varieties. In all d partments of horticulture the exercise of skill and untiring perseverance is apparent, and should be an incentive to agriculturists to follow in the same path.

The pleasure, and in exceptional cases the profit, to be derived is so considerable that the propagator of new varieties will generally be amply rewarded for the time occupied in conducting the various operations of selecting, sowing, and reaping new kinds of grain. farmers who are anxious to improve the varieties of grain in cultivation-wheat, oats, or barley, should adopt the same means as some so successfully followed out by horticulturistshybridizing, and more especially by selecting the best ears, and growing the seed so obtained until sufficient quantities are secured to seed considerable portions of land preparatory to dist posing of a portion of the seeds raised from the selected ears. The improvement of the domestic animals and birds has been mainly effected by selection, and the same principles are equally applicable for the improvements of the various This field varieties of the cereals in cultivation. of experiment is open to all, and the persevering may calculate upon success. Where so much can be effected with even an ordinary amount of attention, the experimenter who possesses a knowledge of the cereals, and also of vegetable physiology, is certain to reap a good harvest.-North Brilish Agriculturist.

Agricultural Intelligence.

The Michigan State Fair.

The Prairie Farmer of October 4th ebserves:

The 14th annual fair of the Michigan State Agricultural Society was held at Detroit last week, and proved a complete success financially, and presented an array of articles and animals in the different departments that entitle it to a fair comparison with the most successful ever held by the society.

The opening day closed with a heavy thunderstorm, quite flooding the grounds and dampening the arder of the members and exhibitors somewhat, but the second morning broke cool and clear with promise of fine weather which held good. Departments filled rapidly and the people turned out.

The attendance was very large Wednesday a Thursday. Parson Brownlow addressed an dience of about 15,000 on Thursday afternor with a recital of personal adventures beli leaving Divie land—he was cordially received.

Horse Department.—The entries were I numerous, but enough well known stock enter to attract great attention. Among them "Mag Charta," "Fanny," a celebrated trotting ma and many others of local celebrity. Seve excellent spans of matched horses were on: ground for carriage and general work. Jac and mules were more in number and better the ever, showing the attention paid to this branches will tend to remove very many ordine horses and them place will doubtless be fill with a better grade of stock if we may juit by the feeling shown among horse men a farmers.

Cattle Department.—The number of a mals entered was large, comprising Devons, P hams and grades. There were a good me fat cattle, some very noticeable ones. One especially, fed by Mr. Smith, Detroit, weight over 3,200 lbs. The herd of Messrs. Crouse, Hartland, in part of imported stock, was v fine, and contained animals of much prom The Messrs. Sly of Plymouth, noted breed had a fine herd. Several others from Olno a

Canada, showed good herds.

Sheep Department.—Here, as at Clevela the Vermonters appeared in competition who all breeders and growers. The home exhibition was not what Michigan can or ought have made. The show was made up of Leters, South Downs, French and Spanish Mons. There is a large demand now for she corresponding to the government demand clothing and want of cotton, and prices hargely advanced the past season. Large prace offered for fancy sheep. We would cut those desiring to commence to be very car of whom they buy high priced sheep, that the donot suffer as many in the west have betfore done.

Implement Department.—Anything that lessen the labour of the farm, and in part m am nds for the labor of those who have vo. teered, gave this department especial prot ence, and the usual number of new inventipractical and impractical were shown, the prietor of each demonstrating what fortunes be made or saved by their adoption. Rea; ad mowers were well represented. R. L. H ard, of Bustalo, N. Y., showed the Ketcl Reaper and Mower. The former has a ven genious simple raking attachment, which driver can operate with one hand, while drives with the other, or it can be so arran as to be worked by the machine—the cos the attachment is about \$10 for a hand r and can be attached to any reaper. He showed an attachment to the reaper for cut