tility the feed must be purchased, for if that
which is grown on the farm only is constumed
nothing is added to the resouncos it nothing is added to the resources it already con-
tains. Therefore, the only feasible plan that can be devised is to buy the amount of fertilizer that will be required to produce the crop in-
tended to be sold, or the farm will be inst the tended to be sold, or the farm will be just the
amount short that it required to produce the sop grown
really worse in one prowing potaticular than producin wheat, for here the straw is left to be returned to the and; therefore, it is more on a par with
growing grain and selling both straw and grain from the farm. Here also the greater the yiel. in the crop sold a larger amount is sold from the producing power, and it is only a question of not pay for the expenditures required in growing experiments that have been conducted through the prizes offered in the contest we are about to
review must be of untold benefit to turists. If it can be proved that a fertilizer can be supplied at an expenditure that the crop will
warrant, the tables are then turned the other way, and the crop thus produced it a materia the potato crop is one that gives the best results as a cleaning crop, and it is also one of the most
useful to follow with grain.
It must be borne in mind, in estimating the re stable manure that it requ res a moderate amount of moisture all through the growing
aeason season. In order to receive the best advantage
from any fertilizer, the elements contained in it must be made soluble under a moi-t condition of the soil to which it has been applied. Therefore, the extremely dry weather experienced at the
most critical period preven ed the crop in this contest obtaining the benefit that it otherwise must c nsider that the results obtained were astonishing, as it is generally conceded that las season was the most unfavorable for potato pro-
duction we have had in many years, The following are th
together with the mode of working the land adopted by each of the most successful con testants:
of potatoes, of which 15 gry, grew 315 bushe's comprising two varieties, viz,, Burbank's Scedling and Rural New Yorker No 2 The land was prep red by plowing (in the fall of 1891) out of sod
off which had been cut oue crop of after being seeded. The land was replowed May 12, 1592, and thoroughly harrowed and drilled Then 600 pounds of Freeman's potato manure
was applied in the drill and mixed with the soil broadcast, thus 1,200 pounds was used on this acre. The seed was planted whole (mediumsired potatoes being selected), and 960 pounds to
the acre, and planted May 24 th. The vines appeared a above ground June 3rd. The cultivatimes, twise cultivating betwe the ground three hand hoeing, to effectually kill the weeds among 20th by hand digging with potato forks.
Mr. Henry Pickett. (larkson) hishels of potatoes, of which 30 bushels were
small, com prising two varieties, and hural New Yorker No., 2. He used 2,200 pared the land by applying first 400 pound efore plowing, which was performed May 16 land harrowed and drilled, and another 601 pornds applied in the drill, and a fourth appli-
cation was made after by working around the cation was made after by working around the
hills. The seed on this plot was planted May to ilanting, 930 pounds being used. The plant having been haround June 11, the ground hetween the rows three times, and cultivated th.. last time. The crop was dug with protato
forks on the 20 th to 24 th of October and weighel?
$26!$ bushels, and 20 pounds of Notatoes, on
variety, viz, Rural New Yorker No., 2, and diser
1,800 pounds of Freeman's potato manur 1,200 pounds of which were appliced in the dri the hoe, balance when the potatoes deep wit inches high-the land having boen crepper
with potatoes, corn and turnins for the thre inevious years. In his case tho land was plowe the spring. Francis Peck, Ameliasburg, Albury
P. O., Prince E.lward County, grew 1 s. on his acre, of which 13 bushels were sumal three years previous y without manure, at this time having been plowed from an old
masture. Four different varicties hall been trie in this contest, of which Numroe County Priz Hay. In this test I 1350 pounds of Freeman' potato manure were nsed, 600 of which wer
applich after plowing and harrowing, the balance being applied in the drills. Equally good result were obtained by other partiesin this competition, fanure to their plots, which the rules strictly to be derived by applying the fertilizer alone It is evident that all the contestants did which the greatest efficacy might be traced
whe but in these cases there would be a large proThe subjoinel table gives the names of the each applied, the amount in bushels in the different yields, money value applying, money
value obtained at 60 cents per bushelalue obtained at 60 cents per bushel-tho
current prices at this writing, profit between the value of manure applied and the crop obach can easily figure for themselves :- requiren

Name nf
Contestan


 This contest will be contimued in 1893 , when we
apect to see a still larger number of compectitors

## A Few Points onliorse Breeding

 fred the farm, and those engaged in this interestin work must be again reminded that all success in the breeding of animals is based on the selection of the parents and on the treatment of the progeny. that "like produces like," and this maxim applies not only to the production of the constitutional vigor and the predisposition to disease. Axperiect is more liable than the horsa to transmit blemishes as well as beauties, and that diseases of all sorts are transmitted to the progeny, il 110 ery in that immediately suly ceeding. This consideration increases the hecessity of a judicious selection, for the propa gation of diseases of any kiud is even worse thai demned pointe The mare from which the breeder intends to breed must be free from disease of any kind; car with ribs curving from the back, the short rib well "home," or leaving a short space between it and the hook bone; thighs deep and muscular, one of hund legs hat ant an, a ness; feet olean, firm and sound; pasterns oblique; the arm in front wide, chest deep, shoulderblique and sloping lhackwards at the withers nd shortening the back; top of the shoulder
withers and drooping a little from the set on of
the head ; crest strong and firm and downwards ; ears long and firm, and thickening motion; eyes prominent, quick, bold and lively; face broad between the eyes and tapering to the culzzle; cheek bone not very broad, which show nostrils expanded but neat: foreleg standing wel forward, and not under the belly of the animal one clean and short in hair, feet standing con ave and not flat, knee joints flat and broad.
The most objectionable has to guard against are heaviness of form and inllness in action, and round, bound legs. These lumbering animal with asluggish motion and with hanereal tastes. In order to remedy this defect, mple elements exist, so soon as the breeder is flesh constitute strength. A heavy belly is and objectionable, showing a great quantity of offal to be carried about in a loose shape. A main useless parts and in getting rid of ung the size of pendages. A leading point with our first breed. ers is to reduce the size of the animal, in order to The spretry and compactness.
ample stoductions of nature are so varied that exist; one animal is found of a finer form than another, produced by nature or by chance, and the further improvement is effected with which in the animal body shows the result of a superior organization more quickly or more durable than the eye; in every case of breeding it is promin-
ent, pert and lively, and forms a importance in the selection of animale. When the body is in a state of inaction the visual organ should appear placid and easy; but when must give the first signal and commune eye to the other parts the intelligence that the time of action has arrived, and these parts the summons by being closely knit and obey in combination, compact and ready for action, and not loose or disjointed or far between.
A horse may be called society in miniature the component parts of which must be justed so that each part assists the other in the combination. These mapid and the most precise under the name of "spirit and action," and
und proceed from a superior organization by assorting Thie qualities of the male requiranion. The qualities of the male require a similar ex usually kept for the purpose of propagation, ye a discrimination is essentially necessary. The nimal must be clean-legged, with a flat, thin lofty oblique shoulders, tapering withers, arched neck and small head; eye impetuous, but at the same time placid; ears fine, but quick in hardihood when the legs are darker in sign of han the body. The brown or dark bay seems to be the hardiest of all colors, and an animal of throughout, shows a production of skill and The breeder having by the $\qquad$ rofessional skill outained a valuable progeny, fion with the propagation, or his purpose is only haff effected, and the neglect of one part will finest forms are destroyed, the most unbounded ated, by action are broken down and annihil ant consorting of the clements of propagation and a starvation in the rearing produce a race of
animals to be seen in our fairs-a speci ignorance and a disgrace to the agricultural occupation. Breedery are possessed with the
illea that animaly must he staryed in idea that animals must he starved in order to be
reared and kept at little cost; and certainly ceared alla kept at little cost ; and certainly a
more fallacions illea cannot be entertained on any surbect of the kind. Ample feeding and comfort are essential to the rearing of animals of in suckling, and she will nurse her emploved

