devoted much time and thought to the study of these interesting animals, and I am firmly convinced that in this, as in every parsuit where excellence is desired, a man's time and energies must be largely devoted to his business.

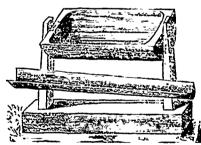
voted to his business.

In founding a herd of short-horns, the young breeder should commence with a choice few, and spare no pains in procuring them. Nor must money be a consideration, as the first oatlay will be the least, if the selection is good. The pichagice of the cows must be of the first class, and five from alloy. The animals themselves must be as perfect in form, and good in quality as can be bought; and they should be known as r golar breeders, or from regardar breeding tribes. The less short-horns cannot be purchased, but they can be bred; and any one commencing with five or six superior cows, and using a ball as good as can be tound—the blood and quality of which must also be unexceptionable—may, by returns which must also be unexceptionable -may, by returning his heders, in a few years by the posses or of a splendid herd. "The Breekins Consider Register of Short-horns, containing Forms of Latry for Registering the Pedigree and Produce of the Herd. by finely laced all round, the lacing broader at tips, with Mr. Torr, and published by Longman & Co., London, this averaging the outer web is relief the improved. will be found fally to an worth parame of a private herd book. Our national register, known as "Conte's Herd Book, in 12 vols. Svo., is published by the proprictor, Mr. Stationd, of Husten-square, London, who receives entries from chore-local backders at certain times, of which he gives nonce, for future publication.

In the foregoing observations I have confined my remarks to the feeding and management of breed- tail white or grey, spangled with black at tips of sistent with fact condition. The redning and treatment of stock in an ordinary and economical manner, consistent with fact condition. The redning and treatment of stock for calabition at the ribust local and mational shows require adult rectains to riand demands. care and skul which tew persons thoroughly possess, and an oachy and unsecond o capense which alarms prudent men. When expension is not a consideration, other requisites are a casencal and emperative, that although the competitors are numerous, the winners of prizes are generally a select tew, vernying the words of an ancient motio, that .

"Many go out for wook and come frome shorm," -Farmer's Magazine.

Watering Trough.



Place two posts in the ground to support the frame for the trong's Hang the from the on guideous means of the lever it is troped to as to throw the water into the waste eport. When not in use the trough can be left bottom up to prevent it being filled with snow, sleet, &c.—Raciae, W.s., J. 4. Bulsh.

Principles of Breeding.

The National Live Stock Journal says: Scientifi. investigation and research have combined the fullowing propositions as true, in the transmission of hereditary animal characteristics .

1st. Lake produces like, or the likeness of some an-

cestor.

2d. When there is great unnormity among the members of a species, the divergine and the offspring from the average type are usually small

quent and great.

4th. Any accelental variation from the established type in the form, disposition or habits of a species, may be perpetuated, and to a limited extent (intensified, by careful selection and use.

5th. An unnatural strain of demand on any part cular part of the animal machinery, long continued, tends to weaken or dwarf all the other parts not alhed to the one so stimulated.

6th. Hereditary qualities are hable to be weakened, if not entirely lost, by disuse.

Poultry Pard.

Hints to Poultry Exhibitors.

Continued from page 288.

Polym -Three varieties of this breed are offered prizes, White Crested Black, and Gold and Silver Spangled Polish. The crest-feathers of the Silver Spangled Polish cock should be black at roots, white in middle, and spotted with black at tips, on old birds white feathers mingled); hackle white, spotted with black at tips; back shoulder coverts and wingrow, white spotted with black, similar to but broader than hackle and saddle-feathers; wing coverts white, laced all round with black, the lacing broader or thicker at the ends of feathers, forming two symme trically laced bars across the wings : secondary quils this exception, the outer web is white, the inner web white with more or less grey or greyish black mingled, but still clearly lighter than the black lacing; primaries very similar to secondaries; saddle-feathers white tipped with black at their bases; breast white, with a heavy crescentic spangle at tips of feathers. often running up the sides so as to form a lacing feathers; sickles the same; till coverts or sidefeathers, white with more or less grey in the centre. heavily laced with very resplendent green black. The erest of the Silver Spangled Polish hen should be black, finely laced with white, the first you, after wards white laced with black, hackle white, laced at tips with black; breast, white spangled with erescentic spangles, running up almost into a lacing. remainder of plumage white, laced entirely round every feather with black even in the secondary quills, the lacing being rather thicker or heavier at tips of the feathers. In both sexes, the eyes bright red, beak dark horn color, face, red, legs, slaty blue.

The Golden Spangled Polish should be similar in all respects in both sexes to Silver Spangled as agails marking, only substituting the golden for the dver ground

The acceets in both the above varieties of the Polish are: Want of size and fulness of crest; presence of more than the merest rudiments or comb, dark breast, wings and tail badly laced, and want of size, symmetry and condition.

The White Crested Black Poish, in both sexes, should have beak black or dark horn color, face and wattles red, deaf cars white, eyes red, crest pure white, with only a few black teathers in the front Rest of the plumage a deep rich black, Less a very dark slate color, approaching to black. In this vinety, the defects are . Want of size and fulness in crest, too much comb, red deaf ear, too much black in crest, or bad white, want of gloss or richness of plumage. want of size, symmetry and condition.

In all varieties of the Polish breed, the following are disqualifications. Distinct two-horned comb, erooked back, wry tail, or any other deformity, presence of foul colored feathers, amoutated combs, plucked crests, or any other fradulent treatment. legs of any color but blue or black, or bluish black

HAMBI ROBS - Four varieties of Hamburghs are included in the prize list, Gold and Silver Spangled, and Gold and Silver Pencilled. In the Silver Spangled cook the hackle should be silvery white, free from 3d. When a considerable divergence has once been cetablished, nankenesses among the obspiring are ne. [3, 1] of there at bottomspotted as much as possible. On the back, shoulder coverts and wing-box, the teathers should be white spotted-with black Owing to the pointed shape of the tip of the feithers, the spots will be long and narrow. Each feather of the wing coverts should be white, with a heavy round black spangle at the tip, forming two even bars across the spangle forming what is called the stepping of the

A black spot should appear at each end of the saddlefeathers, the rest white. Breast, under part and thighs, white, spangled with black, every feather having a rich, round, black spangle at the tip, the larger the better, and just arranged as barely to show the white between. The outside of the tail whitish, inside greyish, each feather spangled at the tip. The feathers of the sickles and the secondary sickles, clear white, with a large distinct spangle at the end of each. In the Silver Spangled hen, each feather of the hackle should be silvery white, spotted with black on the end, those towards the bottom becoming larger and rounder. Back, shoulders, saddle, tail coverts. breast, under-parts and thighs, white, each feather tipped with a large round, black moon or spangle, not arranged so close as to overlap and appear solid black, but so that the white can just be seen between Tail feathers white, with a spangle at the end, which is, however, seldom perfectly round. Wing coverts tipped with very large spangles, so as to form two regular bars across the wing, and secondary quills to be white, tipped with a heavy crescentic spangle, so arranged as to appear like "steps" on the end of the wing when it is closed. Primaries, white, tipped with black. The marking to be as uniform as possible all over the body In both sexes the beak a dark horn color; comb, face and wattles, a brilliant red , deaf ears, pure white, eyes, hazel, and legs, dark leaden blue. In the Golden Spangled Humburghs the ground color of the cock should be rich reddish golden bay, the hackle and saddle striped with black, the stripes to be sharp and clear. The feathers of the back, shoulder coverts and wing-bow, should have black spots at their tips. Wing coverts heavily spangled with large round spangles, forming two bars across the wing. The ends of the secondary and primary feathers also spangled on the ends. Breast, under-parts and thighs, heavily spangled with rich round spangles. Tail, rich green black. The hen of the Golden Spangled variety should have a tich reddish golden bay ground color, but in other respects similar to the Silver Spangled, except that the hackle is striped instead of spotted with black, and the tail is black. In both sexes, beak, horn color, comb, face and wattles, brilliant red, deaf ears, pure white, eyes, red, and legs dark leaden blue. The defects in both varieties of the Spangled Hamburghs are Bad head and comb; bad carriage of tail; stained deaf ears; deficiency in bars; marking of tail of Silver Spangled) spangling too thick so as to appear black, or too thin and small, so as to appear spotted or irregular, or want of clearness in ground, or any other faults of color and marking, and want of general symmetry and condition. The disqualifications are Single or lopping combs, hen-feathered cocks; actually red deaf ears; absence of bars on wings; legs of any other color but blue or dark leaden blue; wry tails, or any bodily deformity; Trimmed combs, or any other fraudulent dyeing, triuming or dressing In the Silver Pencilled Hamburghs the hackle, back, saddle, shoulder coverts and wing-bow, pure silvery white, lower web of wing coverts, pure white; upper web, heavily pencilled across, the pencilling to extend just at tip across outer web also, so as to form ar indistinct and rudimentary bar; secondaries, white on lower web, except a strip of black next the quils, and black on muer web, except a little grey or white on extreme edge; primaries, white on outer web, and black on inner web; Breast, under-parts and thighs, white, except a few black spots behind the thighs, fail, black in the true feathers; mckle and secondaries, rich glossy, green-black, with a narrow lacing or edging of pure white round The hackle of the Silver Pencilled hen, silvery white Remainder of plumage, except wing quills, a pure silvery white ground color, each feather pencilled across with black; the pencilling to be as fine or the wing. Secondaries, white, spang'd at the tips, frequent as possible, to go as straight and squarely across as possible, and to be nearly as possible equal wing. Primaries also to be spangled at the caids. in width to the white spaces left between. The