ready appeared by ploughing a single deep furrow around it, up the perpendicular side of which the grub could not climb. This plan was stated to have been adopted with some success in some localities on the invasion of the Army-worm in 1861, the furrows in some instances being almost filled with the arrested worms, which were destroyed by dragging a heavy log of timber, or some equally efficacious implement over them.—Eps.]

## IS IN-AND-IN BREEDING ADMISSA-BLE.

Its advocates point with triumph, to the example of Robert Bakewell with his Longhorns, and Col. Samuel Jaques with his Creampots; but it should be remembered that every man is not a Bakewell or a Juques; to prove which it is only necessary to state a well known fact, viz: that after the death of Bakewell, the Dishley Longhoins rapidly degenerated, and have now become extinct; and, since the death of Col. Jaques, the Creampots are going the same way. No man has as yet, been found skilful enough to keep them up to the high standard the attained under the management of their iliustrious originators. Chas. Colling tried it with the Shorthorns, and the fact that Comet (155), the best bull of his day, was deeply in and in bred, would seem to be sufficient evidence that in-andin breeding was not only admissable, but highly advantageous. But Comet had a deformed shoulder, and he never sized so good an animal as he himself was. Colling bred from Favorite to the sixth generation. But Favorite is represented as a bull of great size and substance, and rather coarse. For this reason, it was desirable to give his stock more fineness of form than he himself had, and in-and in breeding would have this effect. His great substance and stamina would admit of it, while at the same time the produce of an animal, with less substance and vigor, would have been utterly ruined. Rev. Henry Berry tried it with good success, for a while, but many of his animals became entirely impotent, and he was obliged to throw in a strong cross to remedy the evil. Mr. Thomas Bates bred his Duchess tribe strictly among themselves for twenty years, and obtained what he most desired, viz: great uniformity. But many of his best heifers were hopelessly barren, and he was obliged much against his will, to resort to a new strain of blood, which he obtained in Belvidere, whom he purchased of Mr. Stephenson. As a result of this cross, his an imals received new vigor, while at the same time their peculiar firmness and style was resained.

The editor of the Albany Cultivator, writing

on the same subject, quotes the following remarks from Mr. Berry: Close breeding impain the constitution and affects the proceeding powers. In meand in breeding I believe that the procreative power-fails first or chiefly on the part of the male.

The editor has the following remarks in regard to the stock of Mr. Robinson: Mr. Robinson much as a stock of pure Shorthorns for his estate in Scotland, and pursued strictly the course of in and in breeding; the consequence was his cattle soon became feeble and derical, very bad breeders, and many died of consumption. By resorting to Mr. Colling's stock and the use of one of his bulls for a few year, his stock was renovated and assumed their former beauty and vigor.

Mr. Stephens in the Farmer's Guide, he some remarks on this subject so much to the point, that I copy them entire:

The immediate effects of breeding in-andia or employing animals nearly all ed by block to procreate their kind, are remarkable. Il bone becomes very small, of condensed textue and fine quality. The skin is so thin as to n ceive the appellation of papery so open of textr as to be sensible to the least change of temper ture; and hence animals bred in and in are ver susceptible of catarrhal affections, and on which account are liable to consumption. The cr cass is much reduced in size, and the disposi ion to fatten increases to such a degree that a animal may be said to be always in a condition to be slaughtered. The hair is short, smoot and thin set, and the wool short, thin set a watery; and both hide and fleece lose a lar proportion of weight. The body assumed change of form, the barrel being beautiful rounded, but seems stuffed, as it were, will the skin. The extremities are very fine, t. head and hoofs small, the ears thin and bros and the head of the sheep is almost bare of hi of a blue color, very liable to be scalded by t heas of the sun, and attracted by the f.y. necks of cattle and sheep are thin, and dra with a downward curve between the head tot top of the shoulder. The eyes are often after ed with wateriness. Lameness frequently ens in one of the limbs. The constitution is er. entry much weakened. I have seen many mals that were in and in bred, and they we either small in size, or deficient in constitute and these last died prematurely. stance, although the animal escaped both these defects, he had a nervous affection of.

From the above facts we may infer that and in breeding may be pursued, where the mals have great substance and vigor—espectly if they are somewhat course, or when a sometimes the case, the breeder wishes to certrate some particular strain of blood. Excither case it must be pursued with greation, and must not be carried too far. Some