improved but their crops would receive a proportionate increase. It is physically impossible for any field to bear two crops-one of weeds and the other of grain-at the same time; the former will be certain to obtain the mastery of the latter. The angles formed by our zig zag fences are, by neglecting to mow them in sufficient time, prolific sources of weeds, as though they were specially designed and set apart for the purpose. All such places should be carefully and periodically examined and kept clean; and the landsides and borders of woodlands ought not to escape a similar method of supervision, and no weed should any where be allowed to ripen its seed. By steadily following out such a course the annoyances and losses of the farmer would diminish as his crops and profits increase.

Few are aware how strangely prolific are these pests. Professor Buckman, by the most careful experiments, ascertained that a single plant of the common groundsel will produce 6,500 seeds in one summer. The graceful corn cockle sheds 2,600 productive seeds; and the red poppy, which diversifies the corn fields of the chalk and limestones of England, produces 50,000 minute but vital seeds. The sow-thistle branches out into the wind its 20 ,000 flossy parachutes, bearing the germinating car-like spack, to undulate with every breath of air and take root far away. The common dock lets fall its 13,000 solid grains, each destined to shoot down an exhaustive top-root into the soil. Dandelion produces nearly 3,000 seeds, each furnished with an inimitable apparatus for a distant flight. The cow parsnip, if neglected, will produce 5,000 plants; the meadow scabious, 4,000 ; the May-weed, 45,000 ; the daisy 13,500 . Nor is it sufficient to cut down their bearing plants, and leave them to dry on the dung heap or wither on the ground. The sap in the stem and leaves of the cut-dewn plants still mounts up to and nourishes the seed. Nor is their wondrous vitality less remarkable. If the ground be trenched three or four feet deep, there will appear upon the surface a dense crop of weeds, of a different kind from any observed before. They may have been hidden for ages, but when exposed to the air and rain and sun, the little speck of vitahty within germinates, as if the seed had freshly fallen! No limits can be assigned to
the vital durability of some kinds of seed, when buried deeply in the ground, and not stimulated by the action of heat, moisture, and atmospheric air.

It is intolerable that an indolent farme should be permitted to poison his neighbort fields. If he is lost to all sense of the injury he inflicts upon his own produce, he shoulde coerced to extirpate these enemies for the sab of others, whose property and labour are is teriorated by his carelessness. Alexande II. of Scotland denounced that man to be traitor "who poisons the King's lands wil' weeds, and introduces thereby a host $d$ enemies." And it is said that whoever mis found to have three beads of the common ste wort among his corn, was fined a sheep each stalk. In Denmark the farmers are bour by law to destroy the corn-marigold; and France a farmer may sue his neighbor mi neglects to eradicate the thistles upon his lar at the proper season. In Australia a simil regulat:on has been imposed by legislatir authority, with, it is said, the most benefich results. In Canada, we believe, enactmer have been issuca against allowing thistles ripen on the road-sides and exposed publicsit: ations, both from the legislature and tom ship corporations; and ic is passing strand that such important and beneficial regulation on the proper observance of which both priv, and public wealth is so closely dependar should in many districts become practically? oporative. It is high time that some firm sta should be taken, not only against thistles, pigeon weed, and the whole tribe of farm pas of this nature, forming as they do insuperit barriers to Agricultural progress, and corts quently to the increase of wealth and nations prosperity.

## SKETCHES OF THE DIFFERENT BREEDS OF CATTLE.

Durhams or Shorthornso
(Concluded from page 20.)
Besides the very eminent breeders referred in a former paper, others of scarcely less na appeared in the feld, and to the result of $t^{3}$ labors the general elevation of the presentra of Short horns is owing; nor have they des erated in the hands of their successors.

