land by the farmer, will be equivalent to a fair rent. In order, therefore, that the farmer shall receive fair remuneration, the price of each particular produce which he raises must be sufficient, first, to pay this interest of capital sunk in the land, which may be considered as a rent, and, secondly, to pay the labour and expense of the farmer-or rather replace, with the ordinary profits, the stock which he employs about it. The words of Adam Smith on this subject, are so much to the purpose, that we must give them place, even though in an Agricultural Report:-
This rise in the price'of each paticular producn must evidently be previous to the improvement and cullivation of the land which is destined for raising it. Gaia is the end of all inprovement, and nothing could deserve that name of which loss was to be the necessary consequence. But loss mu-t be the necessary consequence of improving land for the sake of a produce of witich the price could never bring back the expense. If the complete improvement and cultivation of the conntry be, as it most certainly is, the greatest of all public advantag's, this rise in the price of all those different sorts of rude produce, instead of being considered as a public calamity, ought to he regarded as the necessary forerunner anil attendant of the great:st of all public alvanlages.

This select:on from a high authority cannot be disputed, and we trust that the present prospect of the farmer will be a great encouragement to agricultural improvement in Canada.

The demand for Jabour seems fully equal to the supply, and in consequence of the pub. lie works in progress, we believe labourers will find constant employment during the winter. This is fortunate, as subsistence is likely to be high. When our public works are in a greater state of forwardness to completion, it will become more a public duty that measures should be adopted to promote the improvement of the country, and augment the quantity and value of her productions, so that they shall give full employment to our canals, railroads, \&c., or it would be better they had never been constructed. It would be a waste of money indeed, to construct, at great expense, canals and railroadsinto a waste wilderness, or poor country that produced scarcely sufficient to support her inhabitants.

## REMARKS ON PLOUGHING.

By T. SULITIVAN, ESQ.
The manner of attaching the working cattle to thexplongh may seem to require no illustration, but it isccertainly a point of no trivial importance to know w!en an animal is yoked either to the plough or cart in such a manner as to exert his power to the best advantage. One of the most essential prozerties of a well-made plough-indeed, ono of the
chief difficulties attending its construction-is to have its principal parts so formed and combined that the implement may be enabled to preserve a steady onward motion in the ground during the operation of ploughing. But the motion of the plough is Known to be afficted not only by the form and connection of its parts, but also by the manner in which the animals of draught are attached to it. We have, therefore, a double inducement to pay the utmost attention to the proper mode of yoking the. working animals to the plough. This will of course depend, in some measure, upon the number of horses employed in the team. In Scottand, where the swing mough is almost invariably drawn by two horses yoked abreast, the followng is the simple and efficient methon of yoking rene rally adopted :A set of swing-trees, or swingle-trecs, is attached to the bridle of the plough by means of a draught-swivel hooked to the centre of the main or midde-tree; and the hosses are yoked to their respuctive trees by dratelth chinins or traces, which are linked on one end to the hooks of the hames, and hooked at the other into the eyes of the swing-trees. The thaces are upheld by a broad belt of feather, called a becrband, passing over the back of each horse, on which are hooks fastened to the traces on each side. The honses are kept together by a small iope attached to the imner ring of each hidle, and to the trace of the opposite horse, near whre the backbrand joins it, which prevents cither horse pulling his end of the double tree before the other. In many places the heads of the animats are comected together by a leather strap, buckled at each end to the bridle-ring, which prevents the horsiss separating heyond its jength, but allows their heads to move about loosely. By these means the horses are kifpt together, made to pull equally, and can be turned quickly and simultaneously at the head-lanids. The ploughman directs the horses, and, when necessary, urges them forward with the reins, which extend from each plough-handle, through rings in the back-bands, to the outer ring of eacli bide.
The horses should be yoked as near to the plough as possible, without ton much confining or preventing them stepping out freely; and the draughtchains should extend from the swing-trees to the hames, so as to form a right angle with the plane of the collar-hone. It is likewise evident that ihe traces should proceed in a direct iine foom the point of attachment on the collar to the swing-trees; for if the line be in any way bent, a portion of the nower will be necessarily lost. Hence the inporlunce of allowing the traces to hang freely, the hack-hands merely keeping them in a proper position, and close to the horse's sides. But it is argued by some writers on this sulject, that the back-band, besides supporting the traces, has also the effect of dividing the draught bitween the shoulders and back of the animal. When the back-band is short on each side, ant! the traces thereby bent out of the direct line, the muscles of the back, it is said, are brought into action, and the capability of the animal increased. The strain upon the shoulder is not so great, it is alleged, when the back-band is thus at work, as if the draught-chains were perfectly siraight.

Much diversity of opinion and practice exists among English agriculturists in reference to the number of horses required to plough particular kinds of lands, as well as the manner of yoking them, whether abreast or in single file, so as to exert their power ta the best advantagea $\Delta$ good doal

