thousand. We are probably, within the mark, when we hazard the opinion, that there were between fifty and fifty-five thousand visitors present. It would be premature to institute any comparisons, based upon statistics, between this and preceding Exhibitions. It is sufficient to say, for the present, that it far exceeded general anticipations; that it was well arranged, well sustained, and was a flattering and cheerful exposition of the progress of the country in wealth, industry, and civilization.

The Wheat Crop.

(Continued from Page 618.)

Of the red varieties, the following are those

generally preferred :-

Burwell .- Straw long, stout, and coloured; ear large; chaff coarse and deep coloured; grain long shaped and dark; sample generally good; large cropper, and very hardy.

Browick.—Straw long and stout; ear bold and full; less colour than the foregoing; grain short, plump, and well shaped; skin moderately thick; very productive and hardy; sample generally classed among the finer varietics.

Pristol. - Very similar in character to the Browick; straw long; grain rather coarser and longer; very hardy, yield generally good; sample inferior.

Clovers.—Straw long; grain and chaff stout, but of a lighter colour than the preceding;

sample fair; good cropper.

Hickling's Prolific. - Straw long and stout; ear large, and of a compact square form; grain short and roundish, of a deep yellow colour; chaff white; yield large, but of inferior quality.

Kessingland .- Ear large, dark yellow colour;

somewhat coarse, but very productive.

Lammas.—One of the best varieties of red wheats, grain dark coloured, plump, and fine skinned; straw stout and clean; should be cut early, to prevent shelling; sample good, and liked by the millers; fair cropper.

Piper's Thickset .- Straw short and tough; enr square and compact, tapering towards top, with awns which gradually fall off when fully ripe; grain round, and redish in colour: sample fair;

yield large.

Spalding's,-Straw long and stout; hardy,

and very prolific; grain large, oblong shape;

good average quality.

Velvet or Woolly-eared Bearded. - Ear long, dark red colour; grain large flinty, and coarse; chaff hard and close; difficult to thrash unless in good condition; early, hardy, and prolific.

The species Triticum sativum was formerly called T. vulgare, and was frequently divided into two classes—the winter, T. Hibernum, and the summer, T. æstivum. This classification is no longer recognized, as it is now well known that wheat, by being constantly sown in I

the spring, quite changes its habits as to time of ripening. The produce of wheat sor in the spring acquires the habit of perfecting i growth quicker than the produce of the san wheat sown in the autumn. Hence the farm when he sows wheat in spring should be part ular to obtain seed the produce of spm grown grain, and not the produce of that son in the autumn. The same change takes place in all the cereals, and in other crops which w cultivate. The difference also in colour between the red and white varieties is probably de mainly to the nature and character of the soil which they are grown. Fine white wheat gradually become darker and coarser, and ult mately change their colour altogether whe grown continuously on cold, ungenial soils while the coarser red wheats grown, year after year, on rich, warm soils, in a good climate generally lose their characteristics, become lighter red colour, than yellowish, and finall assume the external appearance of a stron white variety. It has been remarked that the grain in this respect is affected differently to the straw, in changing its colour and character mon quickly than that does. Hence we have many varieties of red wheats with white chaff and straw, and varieties of white wheats with rec straw - the chaff and straw retaining their colour after the influence of cultivation has af fected a change in the grain.

In the foregoing, and all the other varieties of T. sativum, the straw is cylindrical in shape and hollow. In the following species, the T turgidum, and its varieties, the interior of the straw is occupied more or less completely by pithy substance, which gives it toughness and strength; and the grain or seeds have ales regular and symmetrical shape than those

already described.

The varieties of Turgid wheats are generally hardy, vigorous, and very productive, with long tough, coarse straw. Having a low nutritire value, and being unpalatable to cattle, it is un suitable for fodder; but where straw is in demand for thatching, litter, or similar purposes this description of wheat usually is found to b more remuncrative than the finer qualities, The ear i pecially in cold and heavy soils. always bearded (awned). In some varieties the awns fall off as the grain approaches maturity and thus a difference in appearance is given t The soils best suited for these wheat are the strongest and richest clays, in which w so often see the ordinary wheats go down ' wards harvest time-their stout, tough strain being fully capable of standing up against the action of ordinary weather, notwithstanding th size and weight of its ear. They all require be sown in the autumn, and are always backward at harvest; therefore are more suitable for early than for late districts. The yield great, averaging probably one fourth more than that of the ordinary wheats. The grain, hor