

OBSERVATIONS ON THE VARIETY TESTS.

1. The numbers of bearded and of bald varieties of winter wheat which have been grown in our trial grounds are about equal.

2. In each of the seven years past, the bearded varieties have given a heavier weight per measured bushel than the bald varieties, the average being 1.2 pounds in favor of the bearded.

3. In yield of grain per acre for the past seven years, the bald varieties have given an average of 38.8 bushels, and the bearded varieties 38.2 bushels. In 1896, however, the bearded varieties gave about five bushels per acre more than the bald; and in 1891 the bald varieties surpassed the bearded by nearly ten bushels per acre.

4. Of all the winter wheats tested in 1896, fifty-four were red grained and twenty-seven were white grained varieties.

5. In six of the past seven years, the red wheats have given a heavier average weight per measured bushel than the white wheats by about one pound.

6. In 1896 the red wheats gave an average of exactly ten bushels per acre more than the white wheats; but in 1891 and 1894, the white wheats gave considerably larger yields than the red varieties, the average for the seven years being about equal.

7. In 1896, the varieties with bald heads and white grain gave only two-thirds as much in average yield of grain per acre, as the varieties with bearded heads and red grain.

8. The varieties which produced the least amount of rust in 1896 are, Reliable, Turkish Red, Egyptian Amber, Imperial Amber, Emporium, and Amherst Isle; and the variety most subject to rust was Hindostan.

9. The varieties which gave the heaviest weight per measured bushel in 1896 are, Velvet Chaff, Russian Amber, Longberry Red, Pride of Illinois and Egyptian Amber.

10. The varieties which gave the largest yield of grain per acre in 1896 are, Imperial Amber, Russian Amber, Poole, Giant Square Head, Hunter's Wheat and New Columbia.

11. The varieties which were first in reaching maturity in 1896 are Fultz, Turkish Red, Egyptian Amber, McPherson, Arnold's Hybrid, Imperial Amber, Geneva, Red May and Tuscan Island.

12. The varieties which produced the longest straw in 1896 are, Andrew's No. 4, Giant Square Head, Emporium, Golden Tankard, Simcoe Red and Imperial Amber.

13. The varieties which produced the longest average heads in 1896 are Long Amber, Manilla, Pride of Genesee, Stewart's Champion and Silver Star; and those which produced the shortest average heads are Queen Meg, Giant Square Head and Early Genesee Giant.

14. On examination of the yields per acre of eighty-one varieties of winter wheat tested in 1896, it is found that the ten varieties possessing the shortest heads produced an average of eleven bushels per acre more than the ten varieties possessing the longest heads.

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