

1998 Cabbage Cultivar Evaluation

Ohio State University Extension Enterprise Center

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This Cabbage Cultivar Trial compared 15 cultivars using 4 replicates of each cultivar. Objectives were to evaluate performance and quality characteristics of cabbage cultivars for use in producing fresh market cabbage.

Methods:

Planting: Seeds were planted on April 17 into Landmark 288 deep plug trays with Metromix 360 media. Plants were Field planted on June 28 1998 at Hillsboro.

Spacing: Rows were 5 feet apart, with plants set into twin rows on raised beds at 12 inch spacing between plants in the row and 16 inch spacing between double rows.

Soil Type: Haubstadt Silt Loam

Fertilizer: Applied 120 lbs N, 120 lbs P₂O₅ and 120 lbs K₂O per acre prior to planting according to the soil test recommendations. 20-20-20, (1 lb./100 gal. 8 oz. Per plant w/transplant water)

Weed Control: 2 pt./acre Treflan 4E pre plant incorporated on June 30th, 1998 hand hoed and cultivated as necessary.

Pest Management: 2 qt./acre MVP II & 5 fl. oz./acre Pounce on July 26, 2 qt./acre Sevin XLR on August 10, 2 qt./acre MVP II & 5 fl. oz./acre Pounce on August 21, 1 qt./acre Thiodan 3EC on September 11

Irrigation: None

Results:

Total marketable yields for the replicated cultivars ranged from 18.14 tons per acre (Almanac) to 2.76 tons per acre (Zelox). Weather conditions during the 1998 growing season favored disease development on cabbage grown in Southern Ohio. Cultivars in this trial showed varying symptoms of disease pressure.

Table 1. Yields from replicated Cabbage Cultivar Evaluation trials: Ohio State University Extension Enterprise Center, Hillsboro, Ohio 1998 (Harvested October 8 1998)

<u>Cultivar</u>	<u>Marketable</u> <u>Ton/Acre</u>	<u>Marketable</u> <u>Heads/Acre</u>	<u>Average</u> <u>Head Wt.</u>
Almanac	18.14	9792	3.67
Magaton	15.72	11452	2.74
Fresco	15.69	8750	3.65
Fortress	14.69	10625	2.79
Cheers	14.34	11250	2.55
Bravo	13.81	10417	2.6
Score	13.53	9792	2.74
Discover	12.40	10833	2.28
Azan	11.62	9375	2.52
Genesee	11.60	9583	2.47
Cecile	10.26	10000	2.06
Red Dynasty	9.76	10625	1.82
Vorox	6.83	8542	1.99
smand	4.85	8750	1.11
Zelox	2.76	3958	1.41
LSD	4.38	3251	0.67

Table 2. Cabbage Head Characteristics from Cabbage Cultivar Evaluation trial: Ohio State University Extension Enterprise Center, Hillsboro, Ohio 1998

<u>Cultivar</u>	<u>Head</u> <u>Length</u>	<u>Head</u> <u>Width</u>	<u>Core</u> <u>Length</u>	<u>Internal</u> <u>Color</u>	<u>External</u> <u>Color</u>	<u>Head</u> <u>Shape</u>
Almanac	7.2"	6.3"	3.2"	white-green	med. green	pointed
Magaton	6.1"	5.7"	1.6"	white-green	lt. green	round
Fresco	7.1"	7.3"	3.3"	white-green	lt. green	pointed
Fortress	4.8"	5.9"	2.7"	white-green	med. green	round/flat
Cheers	6.0"	6.3"	3.0"	white-green	med. green	round
Bravo	5.0"	4.7"	2.5"	white-green	med. green	round
Score	5.3"	5.3"	2.9"	white-green	lt. green	round
Discover	5.3"	5.1"	2.4"	white-green	med. green	round-pointed
Azan	5.5"	4.4"	2.5"	white-green	lt. green	pointed
Genesee	6.0"	5.3"	2.9"	white-green	lt. green	round

Cecile	5.0"	4.8"	1.4"	white-green	med. green	round
Red Dynasty	5.7"	5.0"	2.8"	purple-white	dark purple	round-pointed
Vorox	5.8"	4.2"	2.3"	purple-white	dark purple	pointed
Desmand	3.6"	4.3"	2.0"	white-lt. yell.	lt. green	round-pointed
Zelox	5.8"	4.4"	2.7"	purple-white	dark purple	pointed

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