

Garlic Growth Results – Harmony Arboretum 2016

Results are fresh weight, reported as per bulb weight in ounces.

Cultivar Comparison Trials

<u>Cultivar</u>	<u>Planting Date</u>	<u>Average bulb weight (oz.)</u>
Deerfield Purple	Sept. 23	1.33
	October 20	2
Korean Red	Sept. 23	2.66
	October 20	2.66
Siberian	Sept. 23	3.33
	Oct. 20	3.33
Blanak	Sept. 23	2.66
	Oct. 20	3.33
Purple Glazer	Sept. 23	1.33
	Oct. 20	1.6
Duganski	Sept. 23	2.3
	Oct. 20	2.3
Uzbekistan	Sept. 23	1.33
	Oct. 20	2
Music	Sept. 23	4.8
	Oct. 20	4.67
German Red	Sept. 23	3
	Oct. 20	3.56
Bent-top Hardneck	Sept. 23	5
	Oct. 20	4
Polish Softneck	Sept. 23	1.33
	Oct. 20	1.6
Elephant Garlic	Oct. 20	12.8
Vietnamese Red	Oct. 20	2.66
	Nov. 14 (with scape)	1.26
	Nov. 14 (without scape)	1.85
Turkish Giant	Oct. 20	2.66
Premium Northern White	Oct. 20	1.76

Planting Depth Trial

Planted to Premium Northern White (cultivar) on October 20, 2015, 36 cloves planted in each bed. Half the bed mulched with straw, half unmulched but no measurable differences due to mulching.

One inch planting depth – 29 bulbs harvested, average weight of 1.52 ounces

Three inch planting depth – 32 bulbs harvested, average weight of 1.38 ounces

Six inch planting depth – 21 bulbs harvested, average weight of 1.14 ounces

Nitrogen Rate/Source Trial

Planted to three cultivars on October 20, 2015. Part of bed had pre-plant compost layered into it as nitrogen source. Part of bed received no additional nitrogen, and final portion received nitrogen containing fertilizer at appropriate rate in mid-May (which was a bit later than it should have been).

Cultivar	Nitrogen	Average weight (ounces)
Deerfield Purple	Compost	1.54
	Fertilizer	0.86
	None	0.89
Uzbekistan	Compost	1.6
	Fertilizer	0.57
	None	0.66
Blanak	Compost	1.78
	Fertilizer	1.71
	None	1.33

Growing Season Mulch Trial

Planted to remaining cloves of five cultivars on October 20, 2015. Bed was kept mulched throughout entire growing season. Comparison is same cultivar's varietal trial weight of same planting date.

Cultivar	Mulched?	Average Weight (ounces)
Purple Glazer	yes	2
	No	1.6
Duganski	yes	3
	No	2.3
Korean Red	yes	4.44
	No	2.66
Siberian	yes	3.66
	No	3.33
Uzbekistan	yes	2.18
	No	2.0