Gomez Park Community Garden Germination Test - April 2012

The varieties listed below are undergoing germination tests with the control group in commercial potting soil and the Gomez group in soil taken for the site on 4/3/2012. (after the second soil test results)

The high EC (salinity) level will impact plant growth and particularly seed germination. The impact on plant growth can be estimated by using the information below on variety threshold and slope (for a complete explanation read "An Introduction to Soil Salinity and Sodium Issues in New Mexico" - link). The impact on seed germination is not as clear, so I initiated the germination test for those varieties that would be commonly planted as seed or transplanted into the beds. I am also doing a couple of transplant tests using pots filled with Gomez soil.

Soil temperature in the germination flat is held at 75-80F to accelerate germination. Seeds were not pre-soaked. The larger seeds are planted in groups of 10 with 5 seeds in each soil substrate. Smaller seeds are not individually counted - so 50% germination is something of a guess with those.

Variety	Plant	1st	50%	Final	1st	50%	Last Germ
Name	Date	Germ	Germ	Germ	Germ	Germ	
		Potting Soil - EC low			Gomez Soil - EC 36.03		
Cascadia	4/4/2012	4/8	4/9	4/10	X	X	X
Peas							
French	4/4/2012	4/8	4/8	4/9	X	X	X
Beans							
Delicata	4/4/2012	4/9	4/9	4/10	X	X	X
Squash							
Jubilee	4/4/2012	4/6		4/7	X	X	X
Corn							
Brightlights	4/4/2012	4/7	4/8	4/9	X	X	X
Chard							
Cherry Bell	4/4/2012	4/7	4/7	4/8	X	X	X
Radish							
French	4/4/2012	4/7	4/8	4/9	X	X	X
Lettuce							
Siberian	4/4/2012	4/6		4/7	X	X	X
Kale							
Persimmon	4/4/2012	4/9	4/10	4/11	X	X	X
Tomato							
Nardello	4/4/2012	4/11	4/11	4/11	X	X	X
Peppers							

Variety Threshold and Slope - Gomez Soil - EC 36.03

Peas - ? - ? - Sensitive

Beans - 1 - 19 - Sensitive

Corn - 1.7 - 12 - Moderately Sensitive

Squash 5.7 - 9.4 - Moderately Tolerant

Radish - 1.2 - 13 - Moderately Sensitive

Peppers - 1.5 - 14 - Moderately Sensitive

Tomato - 2.5 - 9.9 - Moderately Sensitive

Lettuce - 1.3 - 13 - Moderately Sensitive

Chard - ? - ? - Moderately Tolerant

Kale - ? - ? -

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