

Cauliflower and Snap Bean Trials, Lima Breeding Update

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2021 Snap Bean Trials

Flat Podded

11 varieties

Planted May 11

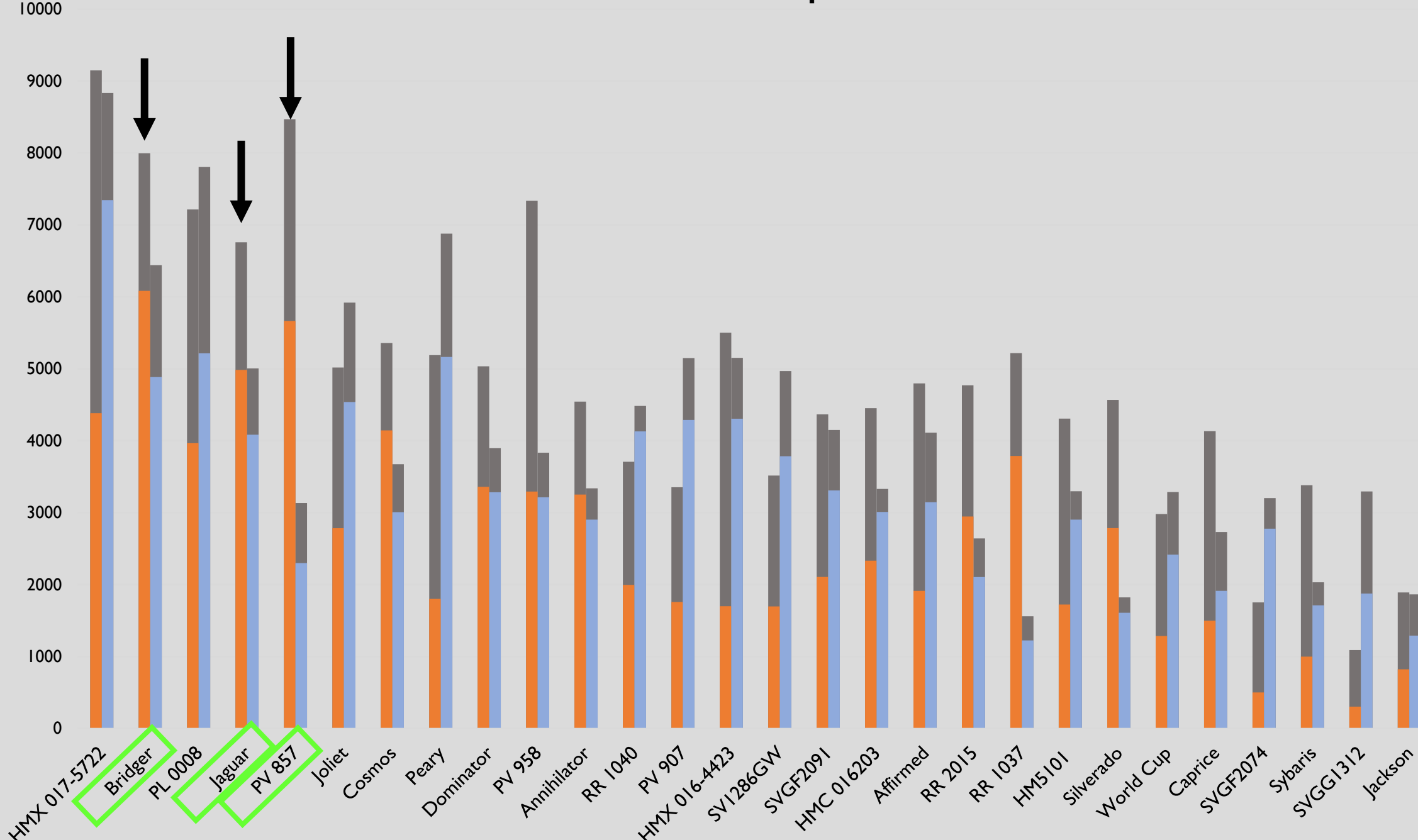
Round Podded

28 varieties

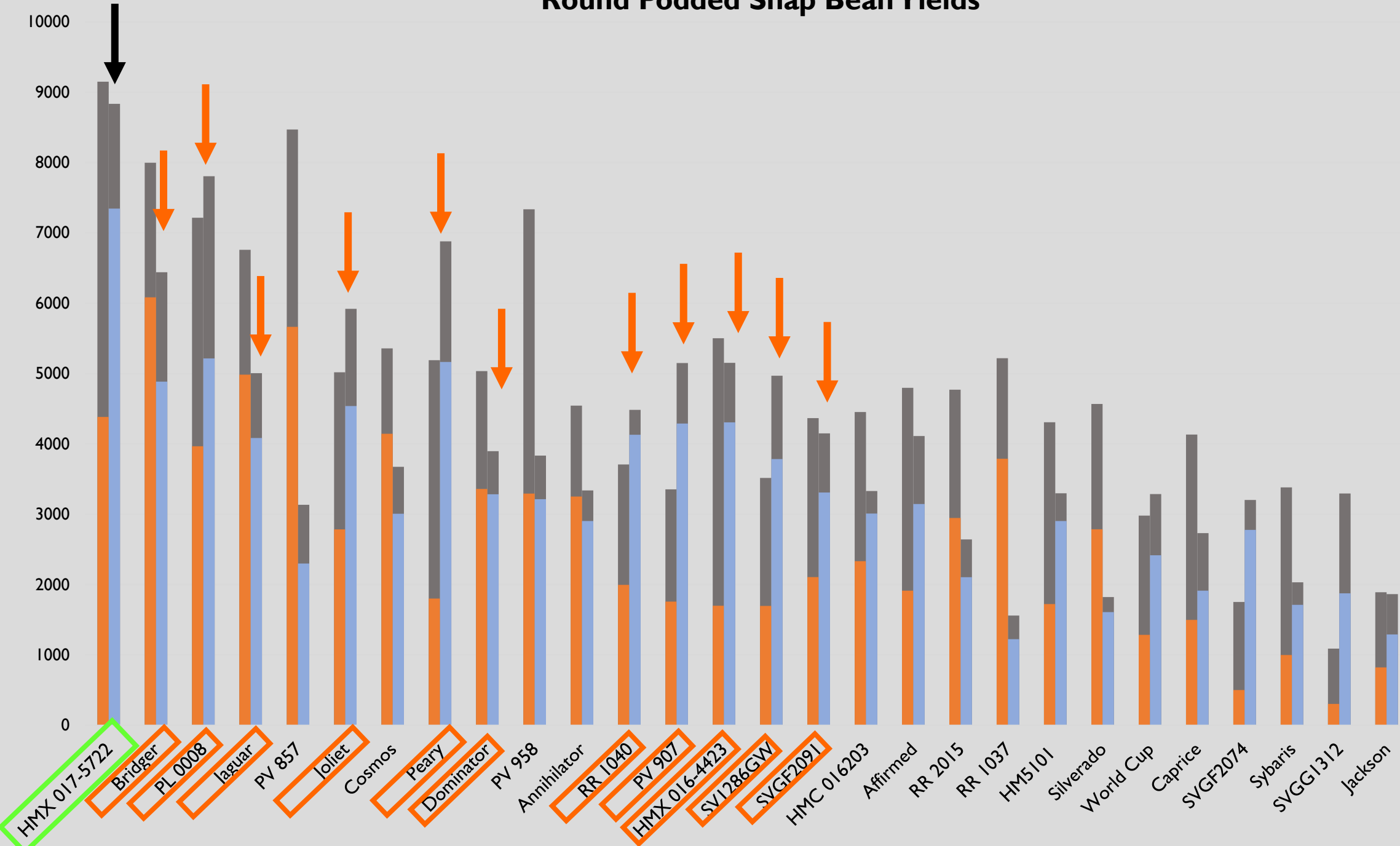
Planted June 2 & June 16



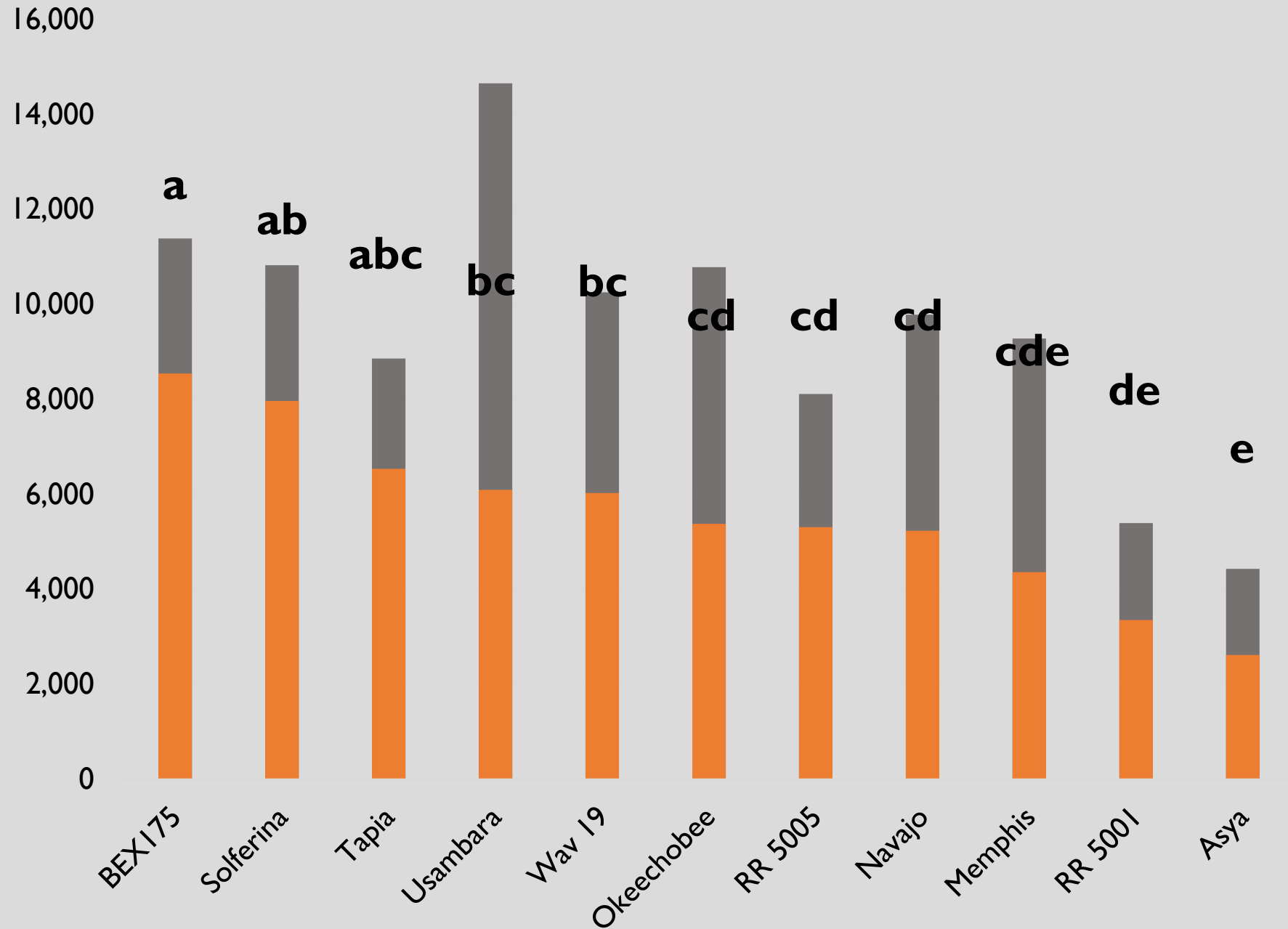
Round Podded Snap Bean Yields



Round Podded Snap Bean Yields



Flat Podded Snap Bean Yields



2021 Fall Cauliflower Trial

Seeded: July 7 (128 cells, 1.2 inches)

Transplanted: August 5

Harvested: Oct 25 – Dec 22



2021 Fall Cauliflower Trial



2021 Fall Cauliflower Trial

Trial Yields in Pounds/Acre

	Total Wt		Mkt Wt		% Marketable
Twister	18,868 a		15,780 a		81.0 a
Caniego	13,703 b		12,555 a		91.3 a
Bermeo	12,133 b		12,004 a		98.8 a
Flamenco	15,273 ab		11,480 a		71.0 a
Toledo	12,771 b		11,480 a		89.5 a
Alcala	13,263 b		10,153 ab		72.3 a
Skywalker	13,306 b		4,829 bc		31.0 b
B-3277	12,678 b		4,648 bc		34.0 b
Adona	11,427 b		2,654 c		23.0 b
<i>p-value</i>	<i>0.0300</i>		<i>0.0013</i>		<i>0.0001</i>
C.V.	19.733		42.25		33.63
LSD	3949		5863		32.27

2021 Fall Cauliflower Trial

Percent of Total Yield at Each Harvest

	25-Oct	28-Oct	1-Nov	8-Nov	19-Nov	22-Dec
Bermeo	98%					2%
Flamenco		92%	2%	1%	3%	2%
Caniego		19%	75%	6%		
Alcala		40%	49%	4%	6%	
Twister			77%	6%	17%	
Toledo			5%	26%	56%	13%
Skywalker					35%	65%
B-3277				5%	22%	74%
Adona					27%	73%



Twister



Caniego



Bermeo



Flamenco



Toledo



Alcala

2021 Fall Cauliflower Trial



Twister



Toledo



Caniego

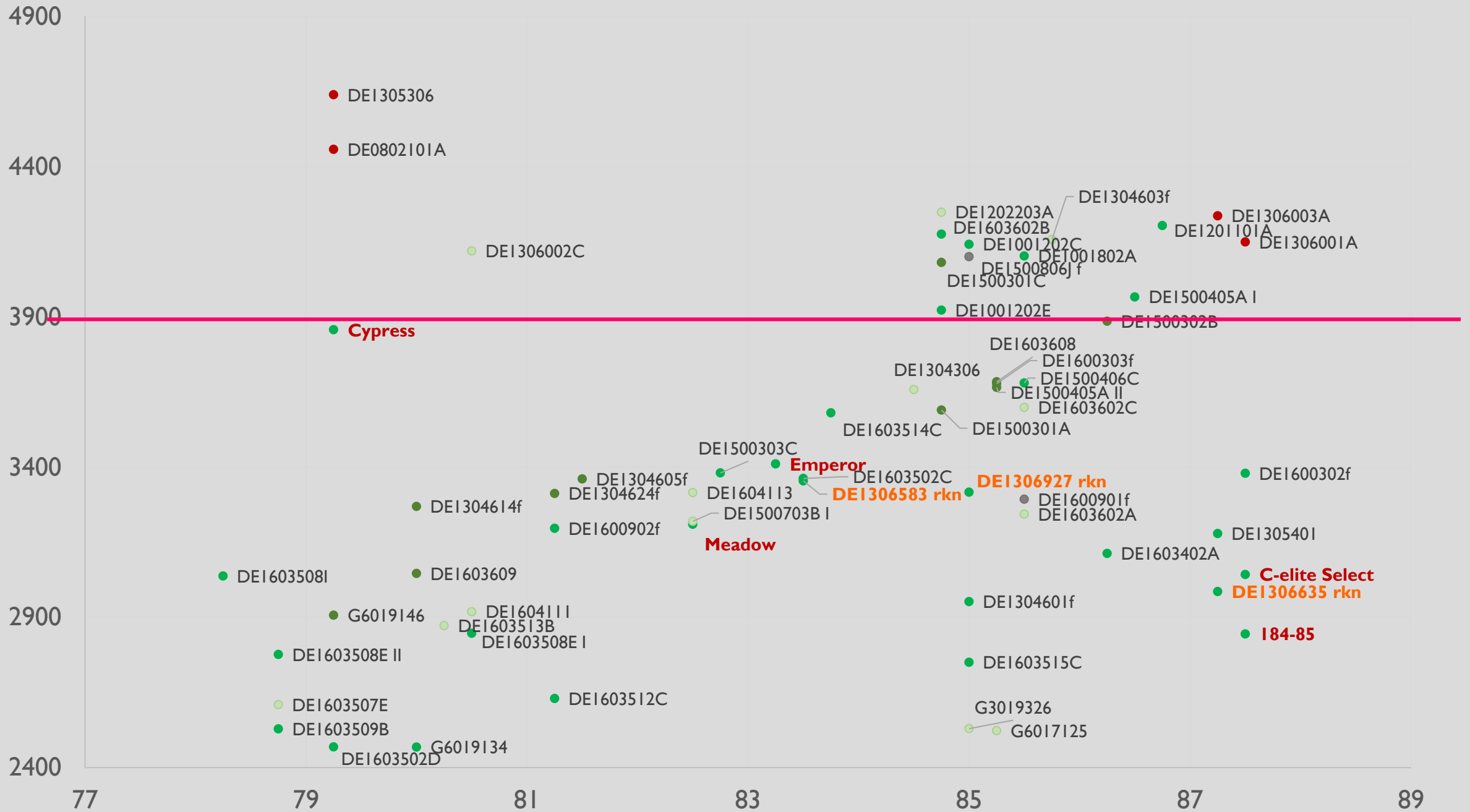


Alcala

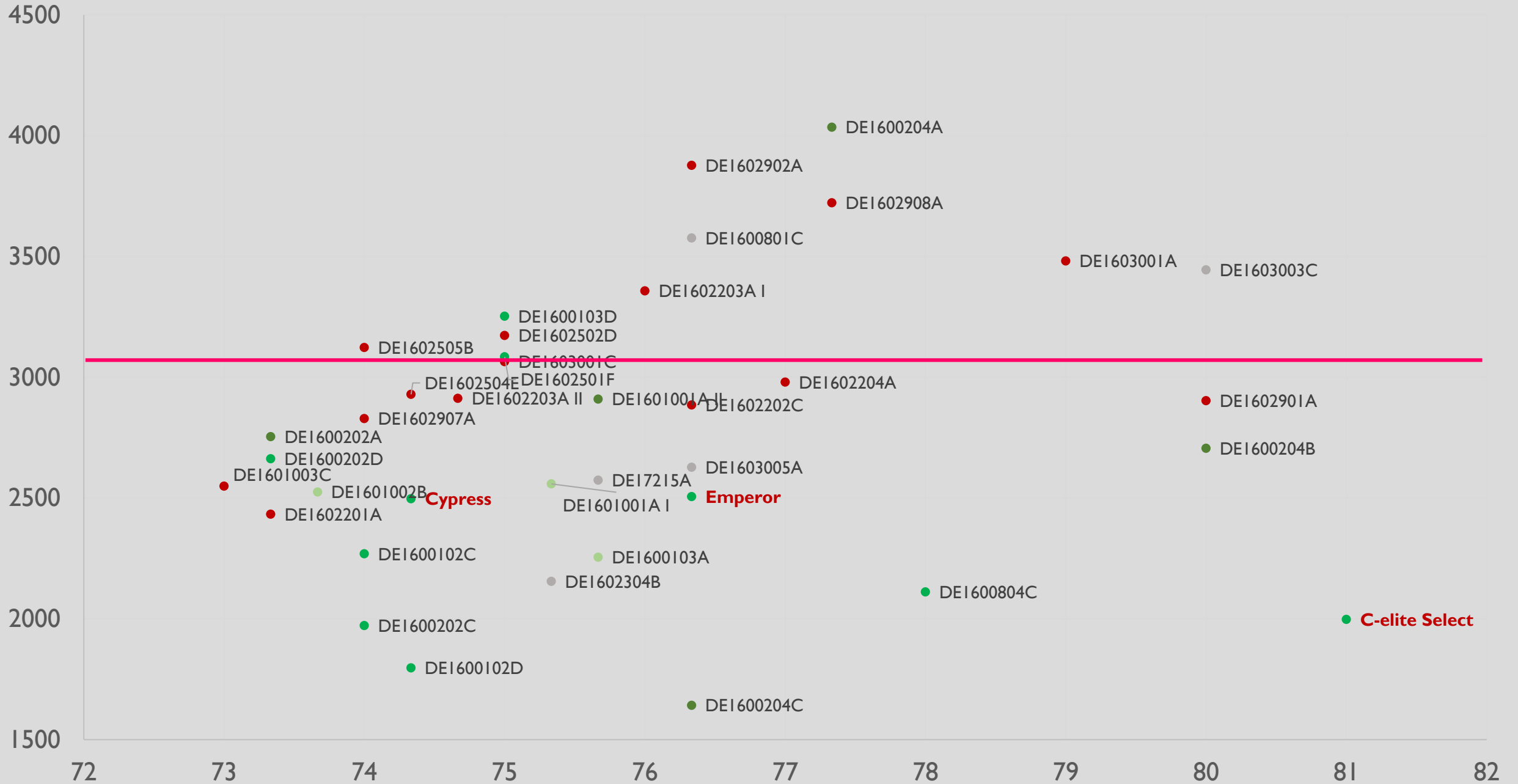
Lima Breeding Update



2021 Advanced Lima Trial



2021 Advanced Lima Trial



Lima Breeding Update



Other Projects

Fordhook breeding for heat tolerance.

High quality genome sequences for 2 baby lima lines

Characterization and genetic mapping of new downy mildew resistance genes

Screened 70 inbred lines for heat, RKN and yield.

Continue work to evaluate usefulness of the narrow leaf shape trait.

Upcoming Projects

Screening of diversity panel for RKN resistance and white mold resistance.

Proposal related to consumer preferences and using diverse germplasm.

Lima Breeding Update



Thanks!

Part Time Employees

Tessa McDonough

Emily Jones

Jacob Maske

Danielle Watkins

Emma Stallings

Carvel Farm Crew

Delaware Specialty Crop Block Grant Program

