1 SUPPLEMENTARY TABLES

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3 **Table S1**. Comparisons of standardized major axis regression slopes from primary bivariate

4 relationships presented for all possible comparisons of the three growth stages (Late-Veg.,

5 Early-Rep., and Late-Rep.) measured on field-grown plants and those grown in controlled

6 growth chambers (Chamber). Pair-wise differences in slopes were assessed by likelihood ratio

7 tests with significance corrected for multiple comparisons using the Sidak correction.

8 Comparisons with differing slopes are indicated: * indicates p<0.05, ** p<0.01, and ***

9 *p*<0.001.

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Slope Comparison:		Chamber	Chamber	Chamber	Late-Veg.	Late-Veg.	Early-Rep.
		VS.	VS.	VS.	VS.	VS.	VS.
		Late-Veg.	Early-Rep.	Late-Rep.	Early-Rep.	Late-Rep.	Late-Rep.
Trait 1	Trait 2						
A _N	g_{m}	*		***			
A _N	g _s			*			
A _N	J_{cal}	***	**				
g_{m}	$g_{ ext{s-co2}}$						
$g_{ m m}$	J_{cal}	***	*	***			
A_N/g_s	g_{m}	*					
g_{m}	LMA						

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- **Table S2**. Cultivars used in this study along with their maturity group status and the source of seeds. Abbreviations used on figure axes and in legends are included for clarity. MG is soybean
- maturity group.

	Figure				
Cultivar	Abbreviations	MG	Seed Source		
Garden Soy 21	GS21	2	NGRP ^B		
Garden Soy 22 ^A	GS22	2	NGRP		
Garden Soy 24	GS24	2	NGRP		
Garden Soy 31 ^A	GS31	3	NGRP		
Garden Soy 32 ^A	GS32	3	NGRP		
Garden Soy 41 ^A	GS41	4	NGRP		
Garden Soy 42 ^A	GS42	4	NGRP		
Garden Soy 43 ^A	GS43	4	NGRP		
Lanco ^A	Lanc	4	Southern Exposure Seed Exchange ^C		
Mikawashima ^A	Mika	0	NGRP		
Vinton 81	Vint	2	Urban Farmer ^D		
Wyandot	Wyan	3	DKG Seed Farms ^E		
^A Designates cultivars used for field plantings. ^B United States Department of Agriculture,					
Agricultural Research Service, National Genetic Resources Program. ^C Mineral, Virginia, USA.					
^D Westfield, Indiana, USA. ^E Orville, OH, USA.					