

University of Tennessee

Evaluation of Flax Cultivars in Jackson TN

Trial ID: 2015_Flux_WTREC Location: Jackson, TN Trial Year: 2016
 Protocol ID: 2015_Flux_WTREC Investigator: Angela McClure
 Crop: Other Study Director: Angela McClure
 Project ID: 2015_Flux_WTREC Sponsor Contact: Brian Caldebeck

Crop Code	LINUM	LINUM	LINUM	LINUM	LINUM	LINUM
BBCH Scale						
Crop Scientific Name	Flax	Flax	Flax	Flax	Flax	Flax
Crop Name	Flax	Flax	Flax	Flax	Flax	Flax
Crop Variety						
Description	Stand count	Percent Brown >	Pre Harvest He>	Harvest Weights	FM Adjusted We>	Harvest Moistu>
Part Rated	PLANT	PLANT	PLANT	SEED	SEED	SEED
Rating Date	11/3/2015	6/3/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Rating Data Type	CROPST	MATURI	HEIGHT	WEIGHT	WEIGHT	MOICON
Rating Unit	FT2	IN	IN	lb/plot	lb/plot	percent
Collection Basis, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	2	1	1	1	1	1
Crop Stage Majority	3 inches	29 inch	29 inch	29 inch	29 inch	29 inch
Assessed By	C. Walker	A. McClure	A. McClure	A. McClure	A. McClure	A. McClure
Plant-Eval Interval	26 DP-1	239 DP-1	246 DP-1	246 DP-1	246 DP-1	246 DP-1
Days After Emergence	12 DE-1	225 DE-1	232 DE-1	232 DE-1	232 DE-1	232 DE-1
ARM Action Codes		ET2				ER1
Number of Decimals						
Entry Entry	Appl					
No. Name Code Plot	1	2	3	4	5	6
1 CCWF01 A 101	39.0	60.0	29.0	3.880	3.800	
203	36.0	80.0	27.0	2.730	2.680	8.80
301	32.0	75.0	29.0	2.450	2.400	9.80
402	31.0	75.0	31.0	2.840	2.780	9.60
Mean =	34.5	72.5	29.0	2.975	2.915	9.40
2 CCWF02 A 102	25.0	30.0	29.0	4.100	3.980	
204	38.0	70.0	29.0	2.350	2.280	9.10
303	39.0	70.0	33.0	2.370	2.290	8.00
404	41.0	75.0	33.0	2.220	2.150	9.70
Mean =	35.8	61.3	31.0	2.760	2.675	8.93
3 CCWF03 A 103	40.0	50.0	22.0	3.390	3.330	
202	33.0	75.0	23.0	3.530	3.460	7.80
304	42.0	80.0	24.0	3.070	3.010	9.80
401	32.0	80.0	25.0	4.200	4.120	8.50
Mean =	36.8	71.3	23.5	3.548	3.480	8.70
4 CCWF04 A 104	37.0	50.0	27.0	3.720	3.520	
201	38.0	65.0	26.0	3.010	2.890	9.10
302	47.0	75.0	30.0	1.830	1.760	9.00
403	33.0	70.0	30.0	1.260	1.210	8.90
Mean =	38.8	65.0	28.3	2.455	2.345	9.00

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Crop Code	LINUM	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale		BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name		Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Flax	Soybean	Soybean	Soybean	Soybean			
Crop Variety			Behind Flax	Behind Wheat	Behind Wheat			
Description	Yield at 10% m>		Yield at 13% m>	Harvest Moistu>	Yield at 13% m>			
Part Rated	SEED	SEED	SEED	SEED	SEED			
Rating Date	6/10/2016	10/10/2016	10/10/2016	10/10/2016	10/10/2016			
Rating Data Type	YIELD	MOICON	YIELD	MOICON	YIELD			
Rating Unit	BU60LB	%	BU60LB	%	BU60LB			
Collection Basis, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	29 inch							
Assessed By	A. McClure	A. McClure	A. McClure	A. McClure	A. McClure			
Plant-Eval Interval	246 DP-1	368 DP-1	368 DP-1	368 DP-1	368 DP-1			
Days After Emergence	232 DE-1	354 DE-1	354 DE-1	354 DE-1	354 DE-1			
ARM Action Codes								
Number of Decimals	2	2	2	2	2			
Entry No.	Entry Name	Appl Code	Plot	7	8	9	10	11
1	CCWF01 A	101		19.98	8.33	69.00	8.64	51.88
		203		14.76	9.68	57.90		
		301		11.85	9.77	58.30		
		402		13.98	10.70	51.00		
		Mean =		15.14	9.62	59.05	8.64	51.88
2	CCWF02 A	102		12.34	8.57	53.20	8.19	52.35
		204		12.14	9.74	55.50		
		303		13.84	11.08	53.80		
		404		10.74	9.48	53.90		
		Mean =		12.27	9.72	54.10	8.19	52.35
3	CCWF03 A	103		18.10	8.39	39.00	9.26	48.29
		202		21.44	8.68	55.30		
		304		14.85	9.72	63.10		
		401		23.47	9.70	57.50		
		Mean =		19.47	9.12	53.73	9.26	48.29
4	CCWF04 A	104		12.24	8.52	33.60	8.06	54.48
		201		15.39	10.24	51.40		
		302		9.48	10.59	54.10		
		403		6.58	10.49	50.50		
		Mean =		10.92	9.96	47.40	8.06	54.48

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Crop Code
 LINUM, , , = LINUM, , ,
 GLXMA, BSOY, Glycine max, = US

Part Rated
 PLANT = plant
 SEED = seed
Rating Data Type
 CROPST = cropstand
 MATURI = maturity
 HEIGHT = height
 WEIGHT = weight
 MOICON = moisture content
 YIELD = yield

Rating Unit
 FT2 = square foot
 IN = inch
 lb/plot = pounds per plot
 BU60LB = bushel 60 lb
 % = percent

PLOT = total plot
Plant-Eval Interval
 26 DP-1 = 1 LIUUT 10/8/2015
 239 DP-1 = 1 LIUUT 10/8/2015
 246 DP-1 = 1 LIUUT 10/8/2015
 368 DP-1 = 1 LIUUT 10/8/2015

ARM Action Codes
 ET2 = Excluded treatment 2
 ER1 = Excluded replicate 1

Crop Code	LINUM	LINUM	LINUM	LINUM	LINUM	LINUM	LINUM
BBCH Scale							
Crop Scientific Name							
Crop Name	Flax	Flax	Flax	Flax	Flax	Flax	Flax
Crop Variety							
Description	Stand count	Percent Brown >	Pre Harvest He>	Harvest Weights	FM Adjusted We>	Harvest Moistu>	Yield at 10% m>
Part Rated	PLANT	PLANT	PLANT	SEED	SEED	SEED	SEED
Rating Date	11/3/2015	6/3/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016	6/10/2016
Rating Data Type	CROPST	MATURI	HEIGHT	WEIGHT	WEIGHT	MOICON	YIELD
Rating Unit	FT2	IN	IN	lb/plot	lb/plot	percent	BU60LB
Collection Basis, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	2	1	1	1	1	1	1
Crop Stage Majority	3 inches	29 inch	29 inch	29 inch	29 inch	29 inch	29 inch
Assessed By	C. Walker	A. McClure	A. McClure	A. McClure	A. McClure	A. McClure	A. McClure
Plant-Eval Interval	26 DP-1	239 DP-1	246 DP-1	246 DP-1	246 DP-1	246 DP-1	246 DP-1
Days After Emergence	12 DE-1	225 DE-1	232 DE-1	232 DE-1	232 DE-1	232 DE-1	232 DE-1
ARM Action Codes		ET2				ER1	
Number of Decimals							2
Entry No.	1*	2*	3*	4*	5*	6*	7*
Entry Name	1 CCWF01 A	2 CCWF02 A	3 CCWF03 A	4 CCWF04 A			
Appl Code	A	A	A	A			
	34.5 -	72.5 -	29.0 b	2.975 -	2.915 -	9.40 -	15.14 ab
	35.8 -	61.3	31.0 a	2.760 -	2.675 -	8.93 -	12.27 b
	36.8 -	71.3 -	23.5 c	3.548 -	3.480 -	8.70 -	19.47 a
	38.8 -	65.0 -	28.3 b	2.455 -	2.345 -	9.00 -	10.92 b
LSD P=.05	9.29	7.76	1.42	1.0373	0.9962	1.538	5.174
Standard Deviation	5.81	4.49	0.89	0.6485	0.6228	0.770	3.235
CV	15.94	6.45	3.17	22.1	21.82	8.54	22.39
Bartlett's X2	1.252	0.702	1.018	2.172	1.987	6.049	3.105
P(Bartlett's X2)	0.74	0.704	0.797	0.538	0.575	0.109	0.376
Skewness	-0.1973	-0.9901	-0.2436	-0.2145	-0.2242	-0.5151	0.5028
Kurtosis	0.5443	-0.3096	-0.66	-0.5502	-0.5097	-0.5465	0.0546
Replicate F	0.748	17.759	14.735	3.330	3.331	0.482	1.023
Replicate Prob(F)	0.5503	0.0022	0.0008	0.0702	0.0701	0.6393	0.4271
Treatment F	0.382	3.207	51.478	2.022	2.361	0.429	5.460
Treatment Prob(F)	0.7683	0.1129	0.0001	0.1814	0.1393	0.7398	0.0205

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Project ID: 2015_Flax_WTREC	Sponsor Contact: Brian Caldebeck	

Crop Code	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
BBCH Scale	Glycine max	Glycine max	Glycine max	Glycine max
Crop Scientific Name	Soybean	Soybean	Soybean	Soybean
Crop Name	Behind Flax	Behind Wheat	Behind Wheat	Behind Wheat
Crop Variety	Yield at 13% m>	Harvest Moistu>	Yield at 13% m>	Yield at 13% m>
Description				
Part Rated	SEED	SEED	SEED	SEED
Rating Date	10/10/2016	10/10/2016	10/10/2016	10/10/2016
Rating Data Type	MOICON	YIELD	MOICON	YIELD
Rating Unit	%	BU60LB	%	BU60LB
Collection Basis, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Crop Stage Majority				
Assessed By	A. McClure	A. McClure	A. McClure	A. McClure
Plant-Eval Interval	368 DP-1	368 DP-1	368 DP-1	368 DP-1
Days After Emergence	354 DE-1	354 DE-1	354 DE-1	354 DE-1
ARM Action Codes				
Number of Decimals	2	2	2	2
Entry No.	8*	9*	10	11
Entry Name				
Appl Code				
1 CCWF01 A	9.62 -	59.05 -	8.64	51.88
2 CCWF02 A	9.72 -	54.10 -	8.19	52.35
3 CCWF03 A	9.12 -	53.73 -	9.26	48.29
4 CCWF04 A	9.96 -	47.40 -	8.06	54.48
LSD P=.05	0.790	12.960	.	.
Standard Deviation	0.494	8.102	.	.
CV	5.14	15.12	.	.
Bartlett's X2	0.499	9.315	.	.
P(Bartlett's X2)	0.919	0.025*	.	.
Skewness	-0.0663	-0.8516	0.9521	-0.821
Kurtosis	-1.1478	2.0628	-0.3987	1.7309
Replicate F	11.117	0.814		
Replicate Prob(F)	0.0022	0.5179		
Treatment F	2.030	1.389		
Treatment Prob(F)	0.1802	0.3079		

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Part Rated

PLANT = plant
 SEED = seed

Rating Data Type

CROPST = cropstand
 MATURI = maturity
 HEIGHT = height
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 MOICON = moisture content
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Rating Unit

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 lb/plot = pounds per plot
 BU60LB = bushel 60 lb
 % = percent

PLOT = total plot

Plant-Eval Interval

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ARM Action Codes

ET2 = Excluded treatment 2
 ER1 = Excluded replicate 1