		FIELD EXPE	RIMENT HISTORY							
Title: Sweet Corn Stand Reduction										
Experiment:	16Sweet		Trial ID: 6256	Year: 2018						
Personnel:	Joe Lauer, Thier	no Diallo, Kent Kohn.								
Location:	Arlington, WI		County: Columbia							
Supported By:	HATCH, Nationa	al Crop Insurance Ser	vices.							
Site Information	<u>l</u>									
Field: ARS 373	3 <b>P</b> I	revious Crop: Soyb	ean Soil Type	e: Plano Silt Loam						
Soil Test Date:	11/12/18	<b>pH:</b> 7.0 <b>OM (%)</b>	: 2.6 <b>P (ppm):</b> 15	<b>K (ppm):</b> 109						
<u>Plot Managemen</u> Tillage Operatio Fertilizer:	n <u>t</u> ns: Field Cultiva Preplant :	tor <u>Analysis:</u> 46-0-0	Product Rate Ibs/A: 240	<u>Date:</u> 5 /16/18						
	Starter :	N/A	N/A	N/A						
	Post plant : Manure:	N/A N/A	N/A N/A	N/A N/A						
Herbicide:	2.4D @ 16 oz/A Tomahawk @ 32 Laudis 3.0 Accent Q 1.5 oz/ N/A	2 oz/A 5/8/18 oz/A 6/29/18	Insecticide: N/A Hybrid: Syngen	ta - Overland						
Irrigation: Planting Date:	5/18/18	Planting Depth:	1.5" <b>Row Wid</b>	<b>th</b> : 30"						
Target Plant De	<b>nsity</b> : 27000 p	lants per acre	Planting Method: JD17	00 w RTK						
Harvest Date: 8 <u>Notes:</u>	3/16/18		Harvest Method: Hand	Harvest						
Experimental De	<u>esign</u>									
Design: RCB 3	3 x 4 Factorial		Replications 4							
Plot Size Seeded: 10' x 25' Experiment Size: 0.5 A										
Harvest Plot Siz	<b>:e:</b> 5' x 17.4'		Harvest Plant Density:	18933 plants per acre						
Factors/Treatme	ents:									
Stand reduction stage:	or Leaf removal @	-								
1) 0% @ 5 leaf sta 2) 25% @ 5 leaf sta 3) 50% @ 5 leaf s 4) 75% @ 5 leaf s 5) Leaf removal of 6) 0% @ 10 leaf s 7) 25% @ 10 leaf 8) 50% @ 10 leaf 9) 75% @ 10 leaf 10) Leaf removal of 11) 0% @ 15 leaf 12) 25% @ 15 lea 13) 50% @ 15 lea	tage (approximately tage (approximately tage (approximately 50% @ 5 leaf stag tage (approximately stage (approximate stage (approximate of 50% @ 10 leaf st stage (approximate f stage (approximate f stage (approximate f stage (approximate f stage (approximate f stage (approximate	V3 stage by collar methor v3 stage by collar methor v4 stage by collar methor v8 stage by collar methor v8 stage by collar methor v9 v8 stage by collar methor v13 stage by collar methor v	nod) nod) ge by collar method) nod) thod) thod) thod) stage by collar method) ethod) nethod) nethod)							

Arlington, WI - 2018.													
		Main	Secondary	5-ear	5-ear	Cut	Fresh	Dry			Silking		
Thin	Thin	Unhusked	Unhusked	Unhusked	Husked	grain	grain	grain	Till	er	day of	Plant	Harvest
time	percent	ear yield	ear yield	yield	yield	moisture	yield	yield	number	hight	year	hight	density
	%	T/A	T/A	T/A	T/A	%	T/A	T/A	no.	in	DOY	in	plants/A
V3		7.9	1.4	9.2	6.4	78.5	4.1	0.9	16	32	200	72	18700
V8		7.8	0.9	8.7	6.4	78.6	4.2	0.9	8	27	199	71	18800
V13		7.2	0.6	7.8	5.9	79.0	3.6	0.8	6	20	200	72	19049
	0	9.5	0.1	9.6	7.8	78.6	4.9	1.0	7	21	200	75	27250
	25	8.6	0.3	9.0	7.1	78.4	4.4	1.0	9	23	199	74	21250
	50	6.5	1.0	7.4	5.2	78.6	3.5	0.7	13	22	200	71	14500
	75	3.5	2.6	6.0	2.8	79.0	1.8	0.4	10	41	199	69	7417
	L50	10.1	0.8	10.9	8.3	78.9	5.4	1.1	11	24	200	71	23832
V3	0	9.4	0.1	9.6	7.7	78.0	4.9	1.1	11	24	200	74	26750
V3	25	8.9	0.5	9.4	7.5	78.0	4.7	1.0	12	25	200	74	22000
V3	50	7.6	1.4	9.0	6.1	78.7	4.1	0.9	23	27	200	71	16250
V3	75	3.8	3.5	7.3	3.1	79.5	2.0	0.4	19	57	200	72	7750
V3	L50	9.5	1.3	10.8	7.5	78.4	5.0	1.1	15	29	200	69	20750
V8	0	10.1	0.2	10.2	8.3	78.7	5.4	1.1	7	18	200	76	27750
V8	25	8.9	0.1	9.0	7.3	78.1	4.6	1.0	8	24	199	74	21750
V8	50	6.0	1.1	7.1	4.9	78.6	3.2	0.7	8	27	199	69	13250
V8	75	3.5	2.9	6.4	2.9	78.9	1.9	0.4	7	46	199	67	7500
V8	L50	10.6	0.4	11.0	8.8	78.7	5.8	1.2	11	20	200	70	23750
V13	0	8.9	0.1	9.0	7.4	79.1	4.3	0.9	4	22	200	74	27250
V13	25	8.1	0.4	8.6	6.5	79.1	4.1	0.8	9	21	199	73	20000
V13	50	5.7	0.5	6.2	4.7	78.6	3.1	0.7	7	13	200	73	14000
V13	75	3.1	1.3	4.4	2.4	78.7	1.5	0.3	4	20	200	67	7000
V13	L50	10.3	0.6	11.0	8.6	79.6	5.3	1.1	7	22	199	73	26995
Mean		7.6	1.0	8.6	6.2	78.7	4.0	0.9	10	26	200	72	18850
Probability(%)			<b>a</b> 4										
Thin time (T)		9.6	0.1	0.1	10.8	13.9	1.0	0.3	0.0	0.0	19.4	57.9	82.4
Thin percent (P)		0.0	0.0	0.0	0.0	35.2	0.0	0.0	4.9	0.0	45.3	0.0	0.0
T x P <b>LSD (0.10)</b>		22.9	1.3	8.6	12.6	34.7	18.8	32.1	4.0	0.1	60.6	3.2	0.2
<u>LSD (0.10)</u> Thin time (T)		0.5	0.3	0.6	0.5	NS	0.3	0.1	2	4	NS	NS	NS
Thin percent (P)		0.7	0.4	0.8	0.6	NS	0.4	0.1	3	6	NS	2	1240
ΤxΡ		NS	0.7	1.3	NS	NS	NS	NS	5	10	NS	3	2147

Table:1816-01. Influence of Sweet Corn Stand Reduction on Yield. Arlington, WI - 2018