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THE INFLUENCE OF ROUNDUP + ATRAZINE APPLIED AT DIFFERENT TIMES ON YIELD GROWN IN A HIGH INPUT SYSTEM - YEAR 2			
Trial ID:	CN-02-15	Study Dir.:	RANDY DOWDY/BEN SHIRLEY
Location:	BROOKS COUNTY	Investigator:	Eric P. Prostko

Reps: 4 Plots: 5 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .65176)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Rep			
									1	2	3	4
1	NTC								101	204	303	402
2	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	10 DAP	A		25.0 ml/mx	102	205	305	404
	ATRAZINE	4	L	48.0 oz/a	10 DAP	A		37.5 ml/mx				
	AMS XTRA	3.4	L	2.5 % v/v	10 DAP	A		37.5 ml/mx				
	V1 STAGE											
3	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	17 DAP	B		25.0 ml/mx	103	203	302	401
	ATRAZINE	4	L	48.0 oz/a	17 DAP	B		37.5 ml/mx				
	AMS XTRA	3.4	L	2.5 % v/v	17 DAP	B		37.5 ml/mx				
	V3 STAGE											
4	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	23 DAP	C		25.0 ml/mx	104	202	301	405
	ATRAZINE	4	L	48.0 oz/a	23 DAP	C		37.5 ml/mx				
	AMS XTRA	3.4	L	2.5 % v/v	23 DAP	C		37.5 ml/mx				
	V4-V5 STAGES											
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	32 DAP	D		25.0 ml/mx	105	201	304	403
	ATRAZINE	4	L	48.0 oz/a	32 DAP	D		37.5 ml/mx				
	AMS XTRA	3.4	L	2.5 % v/v	32 DAP	D		37.5 ml/mx				
	V7 STAGE											

Sort Order: Treatment

Trial Comments
<p>ROUNDUP P-MAX (24 OZ/A) + ATRAZINE (2 QT/A) + DUAL MAGNUM (16 oz/A) - PRE</p> <p>CORN EMERGED ON MARCH 25, 2015</p> <p>APPROXIMATE GDD FROM EMERGENCE AS FOLLOWS:</p> <p>10 DAP = 50 GDD = V1 17 DAP = 178 GDD = V3 23 DAP = 313 GDD = V4-V5 32 DAP = 487 GDD = V7</p> <p>APRIL 21 APPLICATION DATE - CORN WAS SLIGHTLY BLOWN OVER DUE TO HIGH WINDS AND RAINFALL ON APRIL 19</p> <p>YIELD DATA WAS NOT COLLECTED IN FROM PLOT 103, 104, 105 DUE TO WIND DAMAGE/LODGED CORN.</p> <p>YIELDS ADJUSTED TO 15.5% MOISTURE. G/EAR ADJUSTED TO 15.5% MOISTURE. YIELDS OBTAINED BY HAND-HARVESTING A 10 FT SECTION OF STAKED ROW (30" SPACING)</p> <p><u>SUMMARY:</u></p> <p>1) ON MAY 1, PLANTS HEIGHTS WERE NOT INFLUENCED BY ANY APPLICATION TIMING.</p> <p>2) CORN YIELDS WERE NOT REDUCED BY ANY TIMING WHEN COMPARED TO THE NTC. ROUNDUP + ATRAZINE APPLIED AT V4-V5 STAGE HAD HIGHER YIELDS THAN THE NTC AND WHEN APPLIED AT THE V3 STAGE OF GROWTH.</p> <p>3) CORN EAR#/A AND CORN EAR WEIGHTS WERE NOT INFLUENCED BY ANY HERBICIDE TREATMENT.</p>

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ON YIELD GROWN IN A HIGH INPUT SYSTEM - YEAR 2

Trial ID: CN-02-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: RANDY DOWDY/BEN SHIRLEY Title: _____
Affiliation: _____ Postal Code: _____

Investigator: Eric P. Prostko Title: _____
Affiliation: _____ Postal Code: _____

Trial Status: _____ Initiation Date: _____ Country: _____
City: _____ State/Prov.: _____ Postal Code: _____
Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. _____ 2. _____

Crop 1: ZEAMA FIELD CORN Variety: PIONEER 1197 Planting Date: Mar-20-15
Planting Method: JONME DEERE AIR Rate: 40000 SEED/A Depth: 2 IN
Perennial Age: _____ Row Spacing: 30 IN Seed Bed: _____
Soil Temperature: _____ Soil Moisture: OPTIMUM Emergence Date: _____

Plot Width, Unit: 5 FT Plot Length, Unit: 25 FT Reps: 4
Site Type: _____
Tillage Type: CONVENTIONAL Study Design: RACOB
Trial Initiation Comments: _____

Previous: Crops Pesticides Year
1. SOYBEANS 2015 _____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
			Conc	Unit	Type	Rate	
1.							

SOIL DESCRIPTION

Texture: LOAMY SAND % OM: _____ % Sand: _____ % Silt: _____ % Clay: _____
pH: _____ CEC: _____ Soil Name: TIFTON Fertility Level: EXCELLENT

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-5-15		0.5	IN	SPRINKLER - CENTER PIVOT		

Overall Moisture Conditions: _____
Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Mar-30-15	Apr-6-15	Apr-12-15	Apr-21-15		
Time of Day:	7:30 AM	7:50 AM	8:08 AM	7:30 AM		
Application Method:	BROADCAST	BROADCAST	BROADCAST	BROADCAST		
Application Timing:	10 DAP	17 DAP	23 DAP	32 DAP		
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE	FOLIAGE		
Air Temp., Unit:	49 F	63.7 F	69 F	60.4 F		
% Relative Humidity:	75	86	89	85		
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH	1 MPH		
Dew Presence (Y/N):	N	Y	Y	Y		
Water Hardness:	--	--	--	--		
Soil Temp., Unit:	59 F	66.5 F	70 F	67 F		
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM	WET		
% Cloud Cover:	20	100	100	30		

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ZEAMA		4 LF	5 LF	7-8LF		
Stage Scale:	V1	V3	V4-V5	V7		
Height, Unit:	2 IN	4 IN	10 IN	24 IN		

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: _____	_____	_____	_____	_____	_____	_____
	Stage Scale: _____	_____	_____	_____	_____	_____	_____
	Density, Unit: _____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	SAME	_____	SAME	SAME	_____	_____
Operating Pressure:	32	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	18	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	54	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	_____	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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Trial ID: CN-02-15		Study Dir.: RANDY DOWDY/BEN SHIRLEY												
Location: BROOKS COUNTY		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	ZEAMA PLANT - STUNTING PERCENT	ZEAMA PLANT - HGT-1 CM	ZEAMA PLANT - HGT-2 CM	ZEAMA PLANT - HGT-3 CM	ZEAMA PLANT - HGT-4 CM	ZEAMA PLANT - HGT-5 CM	ZEAMA PLANT - AVG HGT CM		
						May-1-15	May-1-15	May-1-15	May-1-15	May-1-15	May-1-15	May-1-15		
PRM Data Type												T1		
# Subsamples, Dec.												- 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
1	NTC							0.0 a	114.5 a	113.8 a	113.3 a	113.8 a	113.0 a	114 a
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a		10 DAP A		3.8 a	109.3 a	109.3 a	111.0 a	114.0 a	110.3 a	111 a
	ATRAZINE	4 L		48.0 oz/a		10 DAP A								
	AMS XTRA	3.4 L		2.5 % v/v		10 DAP A								
	V1 STAGE													
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a		17 DAP B		0.0 a	115.8 a	116.0 a	112.5 a	111.3 a	113.8 a	114 a
	ATRAZINE	4 L		48.0 oz/a		17 DAP B								
	AMS XTRA	3.4 L		2.5 % v/v		17 DAP B								
	V3 STAGE													
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a		23 DAP C		1.3 a	110.3 a	113.0 a	119.0 a	114.5 a	117.5 a	115 a
	ATRAZINE	4 L		48.0 oz/a		23 DAP C								
	AMS XTRA	3.4 L		2.5 % v/v		23 DAP C								
	V4-V5 STAGES													
5	ROUNDUP P-MAX	5.5 SL		32.0 oz/a		32 DAP D		1.3 a	109.8 a	112.0 a	113.0 a	109.8 a	116.8 a	112 a
	ATRAZINE	4 L		48.0 oz/a		32 DAP D								
	AMS XTRA	3.4 L		2.5 % v/v		32 DAP D								
	V7 STAGE													
LSD P=.10								3.30	10.04	7.18	9.30	8.17	5.62	5.5
Standard Deviation								2.62	7.97	5.70	7.38	6.48	4.46	4.4
CV								209.76	7.12	5.05	6.48	5.75	3.9	3.89
Grand Mean								1.25	111.90	112.80	113.75	112.65	114.25	113.1
Bartlett's X2								1.724	1.853	3.219	0.93	3.625	4.165	3.019
P(Bartlett's X2)								0.422	0.763	0.522	0.92	0.459	0.384	0.555
Replicate F								1.152	1.219	0.513	1.856	0.753	3.729	2.020
Replicate Prob(F)								0.3683	0.3451	0.6806	0.1908	0.5414	0.0420	0.1649
Treatment F								1.364	0.566	0.753	0.689	0.400	1.741	0.526
Treatment Prob(F)								0.3036	0.6919	0.5752	0.6132	0.8048	0.2057	0.7188

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Missing data estimates are included in columns: Yates=8,9,10,11,12,13,14

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Weed Code							-----	-----	-----	-----	-----	-----	
Crop Code							ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	
Part Rated							PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	EAR -	
Rating Data Type							YIELD	MOISTURE	YIELD	EARS	EARS	YIELD	
Rating Unit							LB/10 FT	PERCENT	BU/A	#/10 FT	#/A	LBS/A	
Rating Date							Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	
PRM Data Type									TY2		T3	TY4	
# Subsamples, Dec.							- 2	- 1	- 0	- 0	- 0	- 1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	8	9	10	11	12	13	14
1	NTC						13.81 bc	24.4 a	308 bc	23 a	39640 a	21530.3 bc	247 a
2	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	10 DAP	A	14.29 ab	24.4 a	318 ab	24 a	41818 a	22265.7 ab	242 a
	ATRAZINE	4	L	48.0 oz/a	10 DAP	A							
	AMS XTRA	3.4	L	2.5 % v/v	10 DAP	A							
	V1 STAGE												
3	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	17 DAP	B	13.57 c	24.4 a	302 c	23 a	39470 a	21151.7 c	243 a
	ATRAZINE	4	L	48.0 oz/a	17 DAP	B							
	AMS XTRA	3.4	L	2.5 % v/v	17 DAP	B							
	V3 STAGE												
4	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	23 DAP	C	14.57 a	24.4 a	324 a	23 a	40666 a	22700.9 a	255 a
	ATRAZINE	4	L	48.0 oz/a	23 DAP	C							
	AMS XTRA	3.4	L	2.5 % v/v	23 DAP	C							
	V4-V5 STAGES												
5	ROUNDUP P-MAX	5.5	SL	32.0 oz/a	32 DAP	D	14.04 abc	24.4 a	313 abc	23 a	40108 a	21883.2 abc	248 a
	ATRAZINE	4	L	48.0 oz/a	32 DAP	D							
	AMS XTRA	3.4	L	2.5 % v/v	32 DAP	D							
	V7 STAGE												
LSD P=.10							0.606	0.06	13.5	1.7	2967.3	946.89	21.3
Standard Deviation							0.467	0.05	10.4	1.3	2289.2	730.51	16.4
CV							3.32	0.2	3.33	5.67	5.67	3.33	6.66
Grand Mean							14.056	24.40	312.9	23.2	40340.4	21906.36	246.9
Bartlett's X2							5.826	0.107	7.332	2.714	2.714	7.332	2.584
P(Bartlett's X2)							0.213	0.999	0.119	0.607	0.607	0.119	0.63
Replicate F							0.841	1658.417	2.636	1.266	1.266	2.636	1.899
Replicate Prob(F)							0.5050	0.0001	0.1136	0.3433	0.3433	0.1136	0.2002
Treatment F							2.793	0.750	2.758	0.685	0.685	2.758	0.367
Treatment Prob(F)							0.0925	0.5823	0.0950	0.6199	0.6199	0.0950	0.8266

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Trial ID: CN-02-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = $([C2]+[C3]+[C4]+[C5]+[C6])/5$

TY2 = $24.89143*[8]*(100-@MVAVGREP([9]))/84.5$

T3 = $[11]*1742.4$

TY4 = $1742.4*[8]*(100-@MVAVGREP([9]))/84.5$

T5 = $([13]/[12])*454$

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Location: BROOKS COUNTY		Investigator: Eric P. Prostko												
Weed Code														
Crop Code														
Part Rated														
Rating Data Type														
Rating Unit														
Rating Date														
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Plot	1	2	3	4	5	6	7
	1 NTC					101		0.0	111.0	104.0	100.0	104.0	105.0	105
						204		0.0	113.0	118.0	112.0	114.0	108.0	113
						303		0.0	113.0	116.0	116.0	111.0	114.0	114
						402		0.0	121.0	117.0	125.0	126.0	125.0	123
						Mean =		0.0	114.5	113.8	113.3	113.8	113.0	114
	2 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	10 DAP A	102		0.0	114.0	115.0	114.0	120.0	110.0	115
	ATRAZINE	4 L		48.0 oz/a	10 DAP A	205		10.0	116.0	100.0	105.0	113.0	105.0	108
	AMS XTRA	3.4 L		2.5 % v/v	10 DAP A	305		5.0	100.0	106.0	105.0	112.0	110.0	107
	V1 STAGE					404		0.0	107.0	116.0	120.0	111.0	116.0	114
						Mean =		3.8	109.3	109.3	111.0	114.0	110.3	111
	3 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	17 DAP B	103		0.0	107.0	113.0	107.0	102.0	111.0	108
	ATRAZINE	4 L		48.0 oz/a	17 DAP B	203		0.0	130.0	120.0	111.0	114.0	117.0	118
	AMS XTRA	3.4 L		2.5 % v/v	17 DAP B	302		0.0	112.0	115.0	125.0	117.0	115.0	117
	V3 STAGE					401		0.0	114.0	116.0	107.0	112.0	112.0	112
						Mean =		0.0	115.8	116.0	112.5	111.3	113.8	114
	4 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	23 DAP C	104		0.0	96.0	107.0	124.0	117.0	117.0	112
	ATRAZINE	4 L		48.0 oz/a	23 DAP C	202		0.0	114.0	117.0	111.0	108.0	116.0	113
	AMS XTRA	3.4 L		2.5 % v/v	23 DAP C	301		0.0	116.0	117.0	124.0	110.0	114.0	116
	V4-V5 STAGES					405		5.0	115.0	111.0	117.0	123.0	123.0	118
						Mean =		1.3	110.3	113.0	119.0	114.5	117.5	115
	5 ROUNDUP P-MAX	5.5 SL		32.0 oz/a	32 DAP D	105		0.0	113.0	114.0	108.0	107.0	114.0	111
	ATRAZINE	4 L		48.0 oz/a	32 DAP D	201		5.0	103.0	107.0	107.0	110.0	110.0	107
	AMS XTRA	3.4 L		2.5 % v/v	32 DAP D	304		0.0	103.0	112.0	116.0	114.0	122.0	113
	V7 STAGE					403		0.0	120.0	115.0	121.0	108.0	121.0	117
						Mean =		1.3	109.8	112.0	113.0	109.8	116.8	112

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Weed Code						-----	-----	-----	-----	-----	-----	-----			
Crop Code						ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA			
Part Rated						PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	EAR -			
Rating Data Type						YIELD	MOISTURE	YIELD	EARS	EARS	YIELD	WEIGHT			
Rating Unit						LB/10 FT	PERCENT	BU/A	#/10 FT	#/A	LBS/A	GRAMS			
Rating Date						Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15			
PRM Data Type								TY2		T3	TY4	T5			
# Subsamples, Dec.						- 2	- 1	- 0	- 0	- 0	- 1	- 0			
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	8	9	10	11	12	13	14
1	NTC						101		14.65	23.5	330	24	41818	23109.5	251
							204		13.10	24.2	293	23	40075	20475.4	232
							303		13.45	25.6	295	22	38333	20634.1	244
							402		14.05	24.4	313	22	38333	21902.3	259
							Mean =		13.81	24.4	308	23	39640	21530.3	247
2	ROUNDUP P-MAX ATRAZINE AMS XTRA V1 STAGE	5.5	SL	32.0 oz/a		10 DAP A	102		14.10	23.5	318	23	40075	22241.9	252
		4	L	48.0 oz/a		10 DAP A	205		14.55	24.2	325	24	41818	22741.7	247
		3.4	L	2.5 % v/v		10 DAP A	305		14.10	25.6	309	25	43560	21631.3	225
							404		14.40	24.4	321	24	41818	22447.9	244
							Mean =		14.29	24.4	318	24	41818	22265.7	242
3	ROUNDUP P-MAX ATRAZINE AMS XTRA V3 STAGE	5.5	SL	32.0 oz/a		17 DAP B	103		13.79*	23.3*	311*	23*	39398*	21749.6*	248*
		4	L	48.0 oz/a		17 DAP B	203		14.00	24.2	313	22	38333	21882.1	259
		3.4	L	2.5 % v/v		17 DAP B	302		13.55	25.6	297	22	38333	20787.6	246
							401		12.95	24.4	288	24	41818	20187.5	219
							Mean =		13.57	24.4	302	23	39470	21151.7	243
4	ROUNDUP P-MAX ATRAZINE AMS XTRA V4-V5 STAGES	5.5	SL	32.0 oz/a		23 DAP C	104		14.82*	23.4*	334*	23*	40697*	23362.7*	260*
		4	L	48.0 oz/a		23 DAP C	202		14.60	24.2	326	21	36590	22819.9	283
		3.4	L	2.5 % v/v		23 DAP C	301		14.25	25.6	312	25	43560	21861.5	228
							405		14.60	24.4	325	24	41818	22759.7	247
							Mean =		14.57	24.4	324	23	40666	22700.9	255
5	ROUNDUP P-MAX ATRAZINE AMS XTRA V7 STAGE	5.5	SL	32.0 oz/a		32 DAP D	105		14.32*	23.4*	323*	23*	40207*	22586.9*	255*
		4	L	48.0 oz/a		32 DAP D	201		13.75	24.2	307	21	36590	21491.3	267
		3.4	L	2.5 % v/v		32 DAP D	304		14.15	25.6	310	24	41818	21708.0	236
							403		13.95	24.4	311	24	41818	21746.4	236
							Mean =		14.04	24.4	313	23	40108	21883.2	248

University of Georgia

THE INFLUENCE OF ROUNDUP + ATRAZINE APPLIED AT DIFFERENT TIMES
ON YIELD GROWN IN A HIGH INPUT SYSTEM - YEAR 2

Trial ID: CN-02-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = $([C2]+[C3]+[C4]+[C5]+[C6])/5$

TY2 = $24.89143*[8]*(100-@MVAVGREP([9]))/84.5$

T3 = $[11]*1742.4$

TY4 = $1742.4*[8]*(100-@MVAVGREP([9]))/84.5$

T5 = $([13]/[12])*454$