		Wł	neat a	and ry	yegra	ss res	sponse to	o Prov	n, Axiom, (Ospre	у, Но	elon,	and	Axial.
Tri	al ID: Whe	eat2-	08				Study I	Dir.:	Amy Davis					
Loc	ation: Pla	ains					-		Stanley Cu	lpepp	er			
Rep	s: 4		Plo	ts: 6 by	/ 30 fe	et								
	y vol: 14.8 g	jal/ac					(min .9260	02)						
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By I	Rep		
No.	Name	Conc	Unit	Туре	Rate	Unit	Stg	Code	to Measure	1	2	3	4	
1	None									101	206	308	406	
2	Prowl H20	3.8		L	42	OZ/A	PRE	А	33.26 ml/mx	102	204	305	411	
3	Prowl H20	3.8		L	42	OZ/A	Spike	В	33.26 ml/mx	103	205	310	404	
4	Axiom	68		DF	8	OZ/A	Spike	В	6.072 g/mx	104	202	304	407	
5	Osprey	4.5		WG	4.75	OZ/A	1-2 lf W	С	3.605 g/mx	105	208	312	413	
	UAN			L	-		1-2 lf W	С	38.0 ml/mx					
	NIS			L	0.25	% V/V	1-2 lf W	С	3.75 ml/mx					
6	Hoelon	3		EC	2	PT/A	1-2 lf W	С	25.34 ml/mx	106	201	311	412	
7	Axial	0.83		EC			1-2 lf W	С	6.493 ml/mx	-	209	303	402	
	ADIGOR			L	9.6	OZ/A	1-2 lf W	С	7.601 ml/mx					
8	Osprey	4.5		WG			2 T whea	-	3.605 g/mx	108	207	309	410	
	UAN			L			2 T whea		38.0 ml/mx					
	NIS			L			2 T whea		3.75 ml/mx					
9	Hoelon	3		EC	2	PT/A	2 T whea	D	25.34 ml/mx	109	213	306	408	
10	Axial	0.83		EC	-		2 T whea		6.493 ml/mx	110	212	301	409	
	ADIGOR			L	9.6	OZ/A	2 T whea	D	7.601 ml/mx					
11	Prowl H20	3.8		L		OZ/A		В	33.26 ml/mx	111	203	307	403	
	Osprey	4.5		WG			2 T whea	-	3.605 g/mx					
	UAN			L			2 T whea		38.0 ml/mx					
	NIS			L			2 T whea		3.75 ml/mx					
12	Prowl H20	3.8		L			Spike	В	33.26 ml/mx	112	211	313	401	
	Hoelon	3		EC			2 T whea		25.34 ml/mx					
13	Prowl H20	3.8		L			Spike	В	33.26 ml/mx	-	210	302	405	
	Axial	0.83		EC			2 T whea		6.493 ml/mx					
	ADIGOR			L	9.6	UZ/A	2 T whea	ט	7.601 ml/mx					J

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
207.850	ml	Prowl H20	3.8	L	
7.590	g	Axiom	68	DF	
13.520	g	Osprey	4.5	WG	
142.510	ml	UAN		L	
14.061	ml	NIS		L	
95.007	ml	Hoelon	3	EC	
24.348	ml	Axial	0.83	EC	
28.505	ml	ADIGOR		L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1.5 liters.

Wheat and ryegrass response to Prowl, Axiom, Osprey, Hoelon, and Axial.						
rial ID: Wheat2-08 Study Dir.: Amy Davis Docation: Plains Investigator: Stanley Culpepper						
Trial Comments						
etermine the most effective program for the control of annual ryegrass.						
NOTE: Ryegrass was seeded across the back 6 foot of each plot to ensure a significant ryegrass population. After late-season weed control ratings were made, the back 6 foot where ryegrass was planted was mowed down prior to harvest. A natural infestation of 1 ryegrass plant per square yard was present and tended to impact yield.						
/heat response: . No treatment injured wheat.						
 Six systems provided excellent control at harvest and included: A. Hoelon applied to 2-leaf wheat (90%) B. Axial applied to 2-leaf wheat (92%) C. Hoelon applied to 2 tiller wheat (94%). D. Prowl at spike followed by Osprey, Hoelon or Axial at 2 tiller wheat (97-98%). Axiom or Prowl alone at spike provided poor control as the ryegrass had already emerged prior to activation by rainfall. Prowl PRE provided poor late season control, although control during mid-season was greater than 75%. Osprey provided poor control. This is the first research trial conducted in five years where control was unacceptable. 						
/heat Yield: . Spike applications of Prowl or Axiom did not improve yield compared to the control. All other treatments improved yield compared to the on-treated.						

GENERAL COMMENTS:

1. 14.3% moisture; 59.5 lb/bu test weight at harvest

		Wł	neat a	and ryegra	lss respon	se to Pro	wl, Axiom	, Osprey,	Hoelon,	and Axial	•	
	al ID: Whe		08			udy Dir.:	-					
Loc	ation: Pla	ains			Inve	estigator:	Stanley	Culpepper				
	ed Code p Code			TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	LOLMG	LOLMG	
Rati	ng Data Typ	е		injury	injury		injury	injury	injury	control	control	
	ing Unit			percent	percent			percent	percent		percent	
	ng Date			Nov-30-07		Dec-19-07		Mar-03-08				
	essed By			AD	AD	AD	AD	AD	AD	AD	AD	
Trt-I	Eval Interval			16 DA-B	12 DA-C	19 DA-C	41 DA-D	75 DA-D	117 DA-D	16 DA-B	12 DA-C	
	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8	
	None			0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	Prowl H20	42	OZ/A	0 a	0 a	-	0 a	0 a	0 a	74 a	71 a	
3	Prowl H20	42	OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
4	Axiom	8	OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
5	Osprey	4.75	OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	UAN	1.5	QT/A									
	NIS	0.25	% V/V									
6	Hoelon	2	PT/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
7	Axial		OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	50 b	
	ADIGOR		OZ/A									
8	Osprey		OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	UAN		QT/A									
	NIS		% V/V							0.1		
-	Hoelon		PT/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
10	Axial ADIGOR		OZ/A OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
11	Prowl H20		OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	Osprey	4.75	OZ/A									
	UAN	1.5	QT/A									
	NIS	0.25	% V/V									
12	Prowl H20	42	OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	Hoelon	2	PT/A									
13	Prowl H20		OZ/A	0 a	0 a	0 a	0 a	0 a	0 a	0 b	0 c	
	Axial		OZ/A									
	ADIGOR	9.6	OZ/A									
LSD) (P=.05)			0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	
	ndard Deviat	ion		0.0	0.0		0.0	0.0	0.0	0.7	0.7	
CV				0.0	0.0		0.0	0.0	0.0	12.22	7.43	
	lett's X2			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
P(B	artlett's X2)											

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Weed Code	LOLMG	LOLMG	LOLMG	LOLMG	
Crop Code					TRZAQ
Rating Data Type	control	control	control	control	yield
Rating Unit	percent	percent			
Rating Date	Dec-19-07		Mar-03-08		May-23-08
Assessed By	AD	AD	AD	SC&AD	
Trt-Eval Interval	19 DA-C	41 DA-D	75 DA-D	120 DA-D	198 DA-A
Trt Treatment Rate					
No. Name Rate Unit	9	10	11	12	13
1 None	0 d	0 g	0 e	0 f	21 cd
2 Prowl H20 42 OZ/A	70 a	73 d	13 d	16 e	22 abc
3 Prowl H20 42 OZ/A	0 d	0 g	0 e	1 f	21 d
4 Axiom 8 OZ/A	3 d	0 g	5 e	5 f	21 d
5 Osprey 4.75 OZ/A	46 c	90 b	56 c	72 d	22 bcd
UAN 1.5 QT/A					
NIS 0.25 % V/V					
6 Hoelon 2 PT/A	60 b	99 a	99 a	90 abc	22 bcd
7 Axial 8.2 OZ/A	60 b	97 a	99 a	92 abc	22 ab
ADIGOR 9.6 OZ/A					
8 Osprey 4.75 OZ/A	0 d	50 f	50 c	86 bc	22 ab
UAN 1.5 QT/A					
NIS 0.25 % V/V					
9 Hoelon 2 PT/A	0 d	80 c	99 a	94 abc	23 ab
10 Axial 8.2 OZ/A	0 d	80 c	86 b	82 cd	23 a
ADIGOR 9.6 OZ/A					
11 Prowl H20 42 OZ/A	0 d	78 cd	87 b	99 a	23 ab
Osprey 4.75 OZ/A					
UAN 1.5 QT/A					
NIS 0.25 % V/V					
12 Prowl H20 42 OZ/A	0 d	60 e	96 a	97 ab	23 ab
Hoelon 2 PT/A					
13 Prowl H20 42 OZ/A	0 d	73 d	99 a	97 ab	23 ab
Axial 8.2 OZ/A					
ADIGOR 9.6 OZ/A					
LSD (P=.05)	6.1	5.6	6.9	11.0	0.8
Standard Deviation	4.2	3.9	4.8	7.7	0.6
CV	23.07	6.49	8.0	12.12	2.66
Bartlett's X2	5.846	5.404	15.83	34.129	15.641
P(Bartlett's X2)	0.016*	0.144	0.007*	0.001*	0.208

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Jun-12-09 (Wheat2-08)

University of Georgia

	Wheat and ryegrass response to	Prowl, Axiom, Osprey, H	coelon, and Axial.
Trial ID: Wheat	-	r.: Amy Davis	
Location: Plain	s Investigat	or: Stanley Culpepper	
	GENERAL TRIAL INFORMA	TION	
Study Director:	-	Title: Ext. Weed	l Science
Affiliation:	University of Georgia		
Postal Code:	31794		
Investigator:	Stanley Culpepper	Title: Ext. Weed	l Science
Affiliation:	University of Georgia		
Postal Code:	31794		
	TRIAL LOCATION		
City: Pla		rial Status:	
State/Prov.: GA	2	rial Reliability:	good
Postal Code:		nitiation Date:	Nov-06-07
Country:	I	lanned Completion Date:	
E-Longitude of I	LL Corner °: N-I	atitude of LL Corner °:	·
Altitude of LL (Corner: Unit: A	ngle y-axis to North °:	·
Directions:			
	COOPERATOR/LANDOWN	IFD	
Cooperator:	COOP ENATORY HANDOW		
-			
Postal Code:			
Conducted Under	GLP (Y/N): N Conduct	ed Under GEP (Y/N): N	
	Guideline Description:		
Objective:			
Conclusions:			

CROP AND WEED DESCRIPTION Weed Code Common Name Scientific Name

1. LOLMG Ryegrass, annual	Lolium multiflorum gaue	dini
Crop 1: TRZAW wheat Planting Date: Nov-06-07	Planting Method	Variety: AGS-2000 1: drilled
Rate: 20 ft	Depth: 1 in	Perennial Age:
Row Spacing: 7.5 in Sp	pacing Within Row: 0.05	in Seed Bed: flat
soil Temperature: 75 f	Soil Moisture: fair	Emergence Date: Nov-11-07
	SITE AND DESIGN	
Plot Width, Unit: 6 FT	Plot Length, Unit:	30 FT Reps: 4
Site Type: Plains Researce	ch Station	
Tillage Type: Conventional	Study Design:	RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

		Maintenance	Form	Form	Form		Rate
No.	Date	Treatment Name	Conc	Unit	Туре	Rate	Unit
1.							

		SOIL DESCRIPTION							
% Sand: 80	% OM:	5.9	Texture:	loamy sand					
% Silt: 10	pH:	1.6	Soil Name:						
% Clay: 10	CEC:		Fert. Level:						

	ADDITIONAL N	MEASURED	ELEMEN	TS
Element		Quanti	lty	Unit

guanoroj							

MOISTURE CON	NDITIONS
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	Date	Time	Amount	Unit	Туре	Interval	Unit
1.							

Overall Moisture Conditions:

Closest Weather Station:

_____ Distance: _____ Unit: ___

	APPLICATION DESCRIPTION				
	А	В	C	D	
Application Date:	Nov-07-07	Nov-14-07	Nov-30-07	Dec-19-07	
Time of Day:	5:00 pm	9:00 am	9:00 am	4:30 pm	
Application Method:	broadcast	broadcast	broadcast	broadcast	
Application Timing:	a	b	С	d	
Applic. Placement:	on soil	overtop	overtop	overtop	
Air Temp., Unit:	57 f	71 f	54 f	66 f	
% Relative Humidity:	29	69	62.5	58	
Wind Velocity, Unit:	5 mph	3 mph	5 mph	2 mph	
Dew Presence (Y/N):	n	n	У	n	
Water Hardness:					
Soil Temp., Unit:	65 f	63 f	52 f	62 f	
Soil Moisture:	dry	fair	fair	moist	
% Cloud Cover:	0	0	0	0	

CROP STAGE AT EACH APPLICATION

	A	В	С	D
Crop 1 Code, Stage:	TRZAW A	TRZAW B	TRZAW C	TRZAW D
Stage Scale:	PRE	spike	3 leaf	2 tiller
Height, Unit:	0 in	0.75 in	5 in	7 inch

WEED STAGE AT EACH APPLICATION

	A	В	С	D
Weed 1 Code, Stage:	LOLMG A	LOLMG B	LOLMG C	LOLMG D
Stage Scale:	PRE	Spike	2 leaf	2 tiller
Density, Unit:	0 ydsq	15 ydsq	2 in	4 inch

	APPLIC	ATION EQUIPMEN	NT	
	A	В	C	D
Appl. Equipment:	backpack	backpack	backpack	backpack
Operating Pressure:	24	24	24	24
Nozzle Type:	flat fan	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002	11002
Nozzle Spacing, Unit:	18 in	18 in	18 in	18 in
Nozzles/Row:	2	2	2	2
Band Width, Unit:				
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft	4.5 ft
Boom Height, Unit:	15 in	15 in	15 in	15 in
Ground Speed, Unit:	3 mph	3 mph	3 mph	3 mph
Incorporation Equip.:				
Hours to Incorp.:				
Incorp. Depth, Unit:				
Carrier:	water	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:				
Propellant:	CO2	CO2	C02	CO2
Tank Mix (Y/N):	Y	Y	Y	Y

Trt No

Treatment Application Comment