

Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

Alternatives to Paraquat in a Double Knock

Trial ID: **LB1715** Location: **St Ruth** Trial Year: **2017**
 Investigator: **Linda Bailey**

Objective:	To investigate alternative products and mixtures that can be used as a second knock on common sowthistle or fleabane		
Situation:	Fallow		
Application Code:	A	B	C
Application Date:	25/11/2017	27/11/2017	6/12/2017
Application Timing:	Late Post-Emergent	Late Post Emergent + Residual	'Double Knock' applied 9 days later
Weed Name:	Tall Fleabane (<i>Conyza sumatrensis</i>)		
Weed Stage:	Flower buds visible, 70cm tall		
Weed Population:	0.1/m ²		
Trial Quality:	Poor (target population too low)		
Keywords:	Tall fleabane, fallow, knockdown		
NB: Application A was Roundup UltraMax at 2L/ha. Application B Amicide 625 1L/ha + Starane 500mL/ha + Dual Gold 1L/ha Applications A and B were commercially applied to ALL plots			

NB: The table below shows the performance of the 'second knock' treatments applied on 6/12/2017 (Feathertop Rhodes grass was a secondary species at this site with an initial populations of ~4/m²)

Pest Scientific Name Pest Name				<i>Conyza sumatrensis</i> Tall Fleabane		<i>Chloris virgata</i> Feathertop Rhodes grass	
				22/12/2017 BURNDOWN	8/01/2018 COUNT	22/12/2017 BURNDOWN	8/01/2018 COUNT
Assessment Date				%	/m ²	%	/m ²
Assessment Type				51	51	24	24
Assessment Unit				16 DAC	33 DAC	16 DAC	33 DAC
Pest Stage Majority				AA	AA	ER2	ER2
Treatment-Evaluation Interval							
ARM Action Codes							
Trt No.	Treatment	Product Rate	Appl. Code				
1	Untreated	-		23e	0.07-	55-	3.4-
2	Nuquat	800ml/ha	C	22e	0.07-	85-	2.7-
3	Nuquat	1600ml/ha	C	67abc	0.01-	65-	2.5-
4	Nuquat Hasten	1600ml/ha 1% v/v	C C	43de	0.09-	75-	3.0-
5	Nuquat	2000ml/ha	C	78a	0.03-	78-	3.7-
6	Nuquat	2400ml/ha	C	73ab	0.04-	55-	2.1-
7	Sharpen Hasten	9g/ha 1% v/v	C C	62a-d	0.03-	90-	3.4-
8	Sharpen Hasten	17g/ha 1% v/v	C C	55bcd	0.04-	70-	4.0-
9	Sharpen Hasten	26g/ha 1% v/v	C C	77ab	0.01-	40-	1.9-
10	Sharpen Hasten	34g/ha 1% v/v	C C	72ab	0.08-	53-	2.9-
11	Nuquat Sharpen Hasten	800ml/ha 9g/ha 1% v/v	C C C	82a	0.04-	75-	4.1-
12	Nuquat Sharpen Hasten	1600ml/ha 9g/ha 1% v/v	C C C	70ab	0.06-	63-	3.2-
13	Nuquat Sharpen Hasten	800ml/ha 17g/ha 1% v/v	C C C	60a-d	0.05-	63-	3.5-
14	Experimental Adigor	1600ml/ha 1% v/v	C C	47cd	0.02-	70-	3.2-
LSD P= Treatment Prob.(F)=				21.9 0.0001	nsd 0.4605	nsd 0.0526	nsd 0.8859

Means followed by same letter do not significantly differ (P=.05, LSD)

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Mean comparisons performed only when AOV Treatment P (F) is significant at mean comparison OSL.

Alternatives to Paraquat in a Double Knock

Trial ID: LB1715

Location:

St Ruth

Trial Year: 2017

Assessment Type

BURNDOWN = % Burndown/brown out

Pest Stage Majority

51 = Inflorescence or flower buds visible

24 = 4 Tillers visible

ARM Action Codes

AA = Automatic arcsine square root % transformation

ER2 = Excluded replicate 2

DAC= Days after Application C

Application Description

	A	B	C
Application Date:	25/11/2017	27/11/2017	6/12/2017
Application Start Time:			9:00 AM
Application Stop Time:			11:25 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:			LATE POSTEM
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Air Temperature, Unit:			24 C
% Relative Humidity:			32
Wind Velocity, Unit:			5 km/h
Wind Direction:			NE
Dew Presence (Y/N):			No
Soil Moisture:			SLIWET
% Cloud Cover:			5
Next Moisture Occurred On:	3/12/2017	3/12/2017	9/12/2017

Application Equipment

	A	B	C
Application Equipment:	JD4730	JD4730	Quad bike
Equipment Type:	SPTRMO	SPTRMO	BOOM
Operation Pressure, Unit:	380 kPa	550 kPa	300 kPa
Nozzle Type:	AIRMIX	TEEJTU	AIXR
Nozzle Size:	MD11002	TT110015	110015
Nozzle Spacing, Unit:	50 cm	25 cm	50 cm
Boom Length, Unit:	36 m	36 m	4 m
Boom Height, Unit:	60 cm	60 cm	50 cm
Ground Speed, Unit:	27 km/h	25 km/h	7.2 km/h
Carrier:	Water		
Spray Volume, Unit:	40 L/ha	80 L/ha	100 L/ha