

# NGA Fallow Management of Summer Grass Weeds Survey 2013



1. On average, in what % of your FALLOW PADDOCKS do the following summer grass weeds require management? NB If your MAJOR summer grass weed is a different species, please indicate the % of paddocks requiring management and the weed name, otherwise leave blank. Please select one answer per row

	Don't know	Weed not present	Present but in <10% of paddocks	10-25% of paddocks	26-50% of paddocks	>50% of paddocks	Rating Count
Awnless barnyard grass (Echinochloa colona)	0.0% (0)	0.0% (0)	5.9% (3)	7.8% (4)	17.6% (9)	<b>68.6% (35)</b>	51
Feathertop Rhodes grass (Chloris virgata)	3.8% (2)	5.7% (3)	<b>45.3% (24)</b>	32.1% (17)	5.7% (3)	7.5% (4)	53
Windmill grass (Chloris truncata)	0.0% (0)	20.4% (10)	<b>59.2% (29)</b>	10.2% (5)	8.2% (4)	2.0% (1)	49
Liverseed grass (Urochloa panicoides)	1.9% (1)	0.0% (0)	25.0% (13)	19.2% (10)	<b>28.8% (15)</b>	25.0% (13)	52
Sweet summer grass (Brachiaria eruciformis)	16.0% (8)	24.0% (12)	<b>32.0% (16)</b>	16.0% (8)	10.0% (5)	2.0% (1)	50
Other summer grass weed	3.6% (1)	10.7% (3)	<b>39.3% (11)</b>	25.0% (7)	10.7% (3)	10.7% (3)	28

Name of other summer grass weed 21

answered question	53
skipped question	0

**2. For each weed, has there been any CONSISTENT CHANGE in the % of FALLOW PADDOCKS requiring management over the last 5-10 years? Please select one answer per row**

	Don't know	Weed not present	Weed present but little change	Less paddocks require management	More paddocks require management	Rating Count
Awnless barnyard grass	5.9% (3)	0.0% (0)	27.5% (14)	0.0% (0)	<b>66.7% (34)</b>	51
Feathertop Rhodes grass	4.0% (2)	6.0% (3)	6.0% (3)	2.0% (1)	<b>82.0% (41)</b>	50
Windmill grass	12.0% (6)	24.0% (12)	30.0% (15)	2.0% (1)	<b>32.0% (16)</b>	50
Liverseed grass	7.8% (4)	2.0% (1)	<b>62.7% (32)</b>	13.7% (7)	13.7% (7)	51
Sweet summer grass	22.4% (11)	26.5% (13)	<b>44.9% (22)</b>	2.0% (1)	4.1% (2)	49
Other summer grass weed (named in Q1)	11.1% (3)	11.1% (3)	<b>55.6% (15)</b>	7.4% (2)	14.8% (4)	27
answered question						<b>52</b>
skipped question						<b>1</b>

**3. For each weed, has the COST OF MANAGEMENT changed over the last 5-10 years?  
Please select one answer per row**

	<b>Don't know</b>	<b>Weed not present</b>	<b>Similar cost</b>	<b>Reduced cost</b>	<b>Increased cost</b>	<b>Rating Count</b>
Awnless barnyard grass	1.9% (1)	0.0% (0)	15.1% (8)	1.9% (1)	<b>81.1% (43)</b>	53
Feathertop Rhodes grass	7.5% (4)	3.8% (2)	13.2% (7)	0.0% (0)	<b>75.5% (40)</b>	53
Windmill grass	7.8% (4)	21.6% (11)	23.5% (12)	0.0% (0)	<b>47.1% (24)</b>	51
Liverseed grass	5.8% (3)	0.0% (0)	<b>59.6% (31)</b>	1.9% (1)	32.7% (17)	52
Sweet summer grass	16.3% (8)	20.4% (10)	<b>55.1% (27)</b>	2.0% (1)	6.1% (3)	49
Other summer grass weed (named in Q1)	14.8% (4)	7.4% (2)	<b>48.1% (13)</b>	3.7% (1)	25.9% (7)	27

If your fallow cost has INCREASED, please indicate the level of increase in \$/ha

27

<b>answered question</b>	<b>53</b>
<b>skipped question</b>	<b>0</b>

**4. On the basis of the area infested, difficulty to control and economic cost, please select YOUR MOST IMPORTANT summer grass weed. Please select ONE answer only**

		Response Percent	Response Count
Don't know		0.0%	0
I don't have any summer grass weed issues		0.0%	0
<b>Awnless barnyard grass</b>	<div></div>	<b>100.0%</b>	<b>53</b>
Feathertop Rhodes grass		0.0%	0
Windmill grass		0.0%	0
Liverseed grass		0.0%	0
Sweet summer grass		0.0%	0
Other summer grass weed		0.0%	0

Name of other summer grass weed 1

<b>answered question</b>	<b>53</b>
<b>skipped question</b>	<b>0</b>

**5. Please estimate the % of your FALLOW PADDOCKS with awnless barnyard grass in the following three categories. Please select one answer per row**

	Don't know	Weed not present	<10% of paddocks	10-25% of paddocks	26-50% of paddocks	>50% of paddocks	Rating Count
Glyphosate susceptible	2.0% (1)	2.0% (1)	7.8% (4)	9.8% (5)	19.6% (10)	<b>58.8% (30)</b>	51
Suspected glyphosate resistant	7.7% (4)	5.8% (3)	15.4% (8)	<b>34.6% (18)</b>	26.9% (14)	9.6% (5)	52
Confirmed glyphosate resistant	22.4% (11)	10.2% (5)	<b>46.9% (23)</b>	16.3% (8)	4.1% (2)	0.0% (0)	49
<b>answered question</b>							<b>52</b>
<b>skipped question</b>							<b>1</b>

**6. Please select the HERBICIDE based practices you are CURRENTLY using on [Q4] for fallow management. Please also indicate the practices you used PREVIOUSLY (~5-10 years ago) on [Q4] and those that you are CONSIDERING for future management. Please select ALL appropriate responses. You can select MULTIPLE answers per row**

	Using currently	Used previously	Considering	Rating Count
Glyphosate alone (at SIMILAR rates to ~5-10 years ago)	23.7% (9)	<b>86.8% (33)</b>	0.0% (0)	38
Glyphosate alone (at INCREASED rates to ~5-10 years ago)	<b>84.1% (37)</b>	25.0% (11)	4.5% (2)	44
Double-knock (Glyphosate followed by a PARAQUAT based product)	<b>81.8% (36)</b>	11.4% (5)	18.2% (8)	44
Double-knock (Glyphosate followed by NON-PARAQUAT based herbicide)	23.5% (4)	11.8% (2)	<b>70.6% (12)</b>	17
Double-knock (including NON-HERBICIDE eg tillage)	<b>52.9% (18)</b>	17.6% (6)	44.1% (15)	34
Group A herbicide alone	20.0% (3)	33.3% (5)	<b>46.7% (7)</b>	15
Double-knock (Group A followed by a PARAQUAT based product)	<b>62.2% (23)</b>	2.7% (1)	45.9% (17)	37
Double-knock (Group A followed by a NON-PARAQUAT based product)	14.3% (2)	7.1% (1)	<b>78.6% (11)</b>	14
Whole paddock camera spray application (eg WeedSeeker)	<b>75.0% (30)</b>	17.5% (7)	25.0% (10)	40
Spot spraying individual patches	<b>70.6% (24)</b>	17.6% (6)	26.5% (9)	34
Residual herbicide (applied in FALLOW phase)	<b>88.9% (40)</b>	22.2% (10)	17.8% (8)	45
Residual herbicide (applied in PREVIOUS CROP)	<b>80.6% (29)</b>	22.2% (8)	22.2% (8)	36
Other herbicide practices (please specify)				5
answered question				50
skipped question				3

**7. Please indicate the NON-HERBICIDE practices you are CURRENTLY using on [Q4] for fallow management. Please also indicate the practices you used PREVIOUSLY (~5-10 years ago) on [Q4] and those that you are CONSIDERING for future management. Please select ALL appropriate responses. You can select MULTIPLE answers per row**

	Using currently	Used previously	Considering	Rating Count
Tillage for seed 'burial'	41.2% (14)	<b>47.1% (16)</b>	35.3% (12)	34
Tillage for control of weed emergence flushes	<b>40.6% (13)</b>	<b>40.6% (13)</b>	34.4% (11)	32
Tillage for 'salvage' control	<b>57.6% (19)</b>	39.4% (13)	24.2% (8)	33
Patch tillage (cultivating small parts of the paddock)	<b>73.3% (22)</b>	26.7% (8)	23.3% (7)	30
Chipping	<b>52.9% (9)</b>	29.4% (5)	47.1% (8)	17
Green manuring (cultivating in 'sacrifice crop')	7.7% (1)	7.7% (1)	<b>84.6% (11)</b>	13
Brown manuring (eg cover cropping)	<b>50.0% (8)</b>	12.5% (2)	43.8% (7)	16
Grazing	<b>52.4% (11)</b>	38.1% (8)	33.3% (7)	21
Changing rotation in individual paddocks	<b>92.3% (36)</b>	23.1% (9)	15.4% (6)	39
Increasing crop competition (in PREVIOUS crop)	<b>74.2% (23)</b>	19.4% (6)	32.3% (10)	31
Burning for salvage control	21.4% (3)	21.4% (3)	<b>71.4% (10)</b>	14
Slashing	16.7% (2)	33.3% (4)	<b>50.0% (6)</b>	12
Other non-herbicide practices (please specify)				2
answered question				48
skipped question				5

**8. Please indicate your level of CONFIDENCE with the following aspects of [Q4] management in fallow. Please select one answer per row**

	Poor	Low	Moderate	High	Rating Count
Level of weed control from double-knocks	0.0% (0)	2.0% (1)	44.9% (22)	<b>53.1% (26)</b>	49
Timing intervals for double-knocks	0.0% (0)	2.1% (1)	<b>63.8% (30)</b>	34.0% (16)	47
Application parameters for double-knocks	0.0% (0)	4.2% (2)	<b>58.3% (28)</b>	37.5% (18)	48
Level of weed control from residuals	4.3% (2)	12.8% (6)	<b>51.1% (24)</b>	31.9% (15)	47
Fit for residuals in system (when and how)	4.1% (2)	18.4% (9)	<b>38.8% (19)</b>	<b>38.8% (19)</b>	49
Plantback periods for residuals	6.1% (3)	16.3% (8)	<b>53.1% (26)</b>	24.5% (12)	49
Impact of tillage on soil moisture	6.4% (3)	10.6% (5)	34.0% (16)	<b>48.9% (23)</b>	47
Impact of tillage on soil health	10.9% (5)	21.7% (10)	<b>47.8% (22)</b>	19.6% (9)	46
Fit for tillage in the rotation (when and how)	4.2% (2)	29.2% (14)	<b>45.8% (22)</b>	20.8% (10)	48
Type of tillage required	4.3% (2)	27.7% (13)	<b>51.1% (24)</b>	17.0% (8)	47
'Salvage' weed control options	8.9% (4)	35.6% (16)	<b>42.2% (19)</b>	13.3% (6)	45
Other fallow management practice (please specify)					0
answered question					50
skipped question					3

**9. What do YOU believe are the key limitations to using DOUBLE-KNOCK practices for [Q4] management in fallow?**

	Response Count
	49
answered question	49
skipped question	4

**10. What do YOU believe are the key limitations to using RESIDUAL HERBICIDES for [Q4] management in fallow?**

	Response Count
	48
answered question	48
skipped question	5

**11. Has the research activity changed your LEVEL OF UNDERSTANDING of fallow management strategies for the following weeds? Please select one answer per row**

	Weed not present	No change - I am still unsure	No change - already had a good understanding	Improved - adequate level of knowledge gained	Improved - still need more information	Rating Count
Awnless barnyard grass	0.0% (0)	2.0% (1)	6.1% (3)	34.7% (17)	57.1% (28)	49
Feathertop Rhodes grass	4.1% (2)	4.1% (2)	0.0% (0)	34.7% (17)	57.1% (28)	49
Windmill grass	22.9% (11)	10.4% (5)	2.1% (1)	20.8% (10)	43.8% (21)	48
Area requiring more information (please specify)						18
answered question						49
skipped question						4



**12. Has the research activity changed your MANAGEMENT PRACTICES for fallow management of the following weeds? Please select one answer per row**

	Weed not present	No change made or intended	No change yet but plans in place	Changed practices	Rating Count
Awnless barnyard grass	0.0% (0)	2.1% (1)	16.7% (8)	<b>81.3% (39)</b>	48
Feathertop Rhodes grass	4.3% (2)	0.0% (0)	27.7% (13)	<b>68.1% (32)</b>	47
Windmill grass	25.0% (11)	11.4% (5)	25.0% (11)	<b>38.6% (17)</b>	44
Please indicate any key practices changed					15
answered question					<b>49</b>
skipped question					<b>4</b>

**13. Please rate the IMPORTANCE of additional activity in the following areas of R&D or Extension to assist fallow management of summer grass weeds in your farming system. NB Please specify any additional areas of important R,D&E required in the text box at the bottom. Please select one answer per row**





	Adequate information already available	Useful but low importance	Moderate importance	High importance	Rating Count
Weed identification	<b>53.1% (26)</b>	24.5% (12)	14.3% (7)	8.2% (4)	49
Level of weed control from double-knocks	20.4% (10)	4.1% (2)	36.7% (18)	<b>38.8% (19)</b>	49
Timing intervals for double-knocks	12.0% (6)	8.0% (4)	36.0% (18)	<b>44.0% (22)</b>	50
Application parameters for double-knocks	10.0% (5)	6.0% (3)	38.0% (19)	<b>46.0% (23)</b>	50
Level of weed control from residuals	6.1% (3)	0.0% (0)	26.5% (13)	<b>67.3% (33)</b>	49
Fit for residuals in system (when and how)	6.1% (3)	4.1% (2)	24.5% (12)	<b>65.3% (32)</b>	49
Plantback periods for residuals	2.0% (1)	2.0% (1)	10.2% (5)	<b>85.7% (42)</b>	49
Impact of tillage on soil moisture	22.4% (11)	18.4% (9)	<b>34.7% (17)</b>	24.5% (12)	49
Impact of tillage on soil health	16.3% (8)	24.5% (12)	<b>36.7% (18)</b>	22.4% (11)	49
Fit for tillage in the rotation (when and how)	14.3% (7)	12.2% (6)	<b>38.8% (19)</b>	34.7% (17)	49
Type of tillage required	10.2% (5)	14.3% (7)	<b>42.9% (21)</b>	32.7% (16)	49
'Salvage' weed control options	4.2% (2)	20.8% (10)	29.2% (14)	<b>45.8% (22)</b>	48

Please indicate the weed species and other specific areas of R,D&E required

2

<b>answered question</b>	<b>50</b>
<b>skipped question</b>	<b>3</b>

**14. What is your MAIN role in the grains industry? Please select ONE answer only**

		Response Percent	Response Count
Grower		20.0%	10
Reseller agronomist		16.0%	8
<b>Private consultant</b>		<b>62.0%</b>	<b>31</b>
Researcher/ Extension		2.0%	1
	Other (please specify)		0
<b>answered question</b>			<b>50</b>
<b>skipped question</b>			<b>3</b>