

Natural Resource Management Survey 2006-07

otatis	tics						
	In correspondence, please quote this number	Australia	n Busines	s Number			
		Please c any erro					
,	Reference Period The period covered by this form is from 1 July 2006 30 June 2007.	5 to					
]	Purpose of Collection This survey aims to provide analysts in both the public and private sectors with key information on natural resource management issues in the Australian agricultural sector.						
ce use only	Collection Authority The information asked for is collected under the authority of the Census and Statistics Act 1905. Your co-operation sought in completing and returning this form by the due do The Act provides me with the power, if needed, to direct to provide the information sought.	n is ate.					
]]]	Confidentiality Your completed form remains confidential to the Austral Bureau of Statistics (ABS). Due Date Please complete this form and return it to the Australian Bur of Statistics by		Telephone	elp available : 1800 677 903 : Facsimile 1800 802 928 Australian Bureau of Statistics Reply Paid 76746 Sydney NSW 2000			
	Brian Pink Australian Statistician						
	ve should contact if any queries arise regarding this form						
First N	Name	Telephone Numbe	r				
Last N	Vame	Mobile Number					
Signa	iture	Facsimile Number					

Please read this first

- Important: This form will be read using electronic equipment. • Use **black** pen when completing this form. • Keep each number, letter or tick within the data entry boxes provided, for example • If a mistake is made, cross out the incorrect answer and either write the answer in the remaining boxes, for example 73. Area affected or if not enough space is left, write next to the relevant item, for example
 - This form is for the 12 months ending 30 June 2007
 - If exact figures are not available, please provide careful estimates.
 - The items listed under *Including* and *Excluding* are examples and should not be taken as a complete list of items to be included or excluded
 - To convert acres to hectares, divide acres by 2.47.
 - You will need to report an estimate of the time taken when you have completed this form.
 - If you have received more than one form for the same holding please contact us on **1800 677 903**
 - This form should be completed by the person making the management decisions in relation to the agricultural operations of the business identified by the ABN on the front of this form

response or data to enter.

Area affected ... 542

· Leave answer boxes blank where you have no

Pa	rt A – Your characteristics	
1	In relation to the agricultural operations of the business identified by the ABN on the front of this form, are you the:	
		Please tick all that apply
	(a) Owner/operator	
	(b) Business manager	
	(c) Spouse of owner/operator or business manager	
	(d) Employee	
	(e) Accountant	
	(f) Other (please specify in BLOCK letters)	
2	What was your age last birthday?	Years
3	How many years have you been involved in the management of your holding?	Years
4	How many years have you been involved in farming in your local region/shire?	Years

5 Wha	it was the	total a	area of	your hold	ding at 3	0 June	2007?
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Note

- Please report part hectares.
- To convert acres to hectares, divide acres by 2.47.

Including

- All land (including non-arable land) occupied or maintained by you (whoever the owner may be)
- All land worked for you by sharefarmers
- All road permits

Excluding

- All land leased or rented by you to other persons
- Land operated elsewhere by you under a share farming agreement



6 Please provide a breakdown of the total area of your holding as reported in Question 5 according to the main use of the land between 1 July 2006 and 30 June 2007

Note

- Please report part hectares.
- To convert acres to hectares, divide acres by 2.47.
- If exact figures are not available, please provide careful estimates.

La	nd not used for agricultural production	Hectares
(a)	Land set aside for conservation/protection purposes (including land that is largely unmodified and managed to preserve its condition)	•
(b)	Other areas not used for agricultural production (including water bodies, land surrounding and occupied by buildings, and other agriculturally unproductive land such as inaccessible areas or roads)	•
La	nd mainly used for agricultural production	
(c)	Land mainly used for crops (including vegetables, fruit, nuts, rice, cotton, grapevines and nurseries etc, including land left fallow between crops)	•
(d)	Land mainly used for grazing (including land spelled between stock rotations) – grazing on improved pastures	•
	 grazing on other land (including natural pastures/grasslands, rangelands, woodlands/shrublands, forested areas and swamps/wetlands) 	•
(e)	Land mainly used for forestry production	, , , , , , , , , , , , , , , , , , , ,
(f)	Land mainly used for other agricultural purposes (including feedlots, piggery and poultry sheds)	

/		ase indicate the extent to which the following weed-related blems affected your holding between 1 July 2006 and	Please tick	Please tick one box per line only		
	30 ,	June 2007	Not a problem	Minor problem	Major problem	
	(a)	Decreased value of production	. 🗆			
	(b)	Blocked water courses	. 🗆			
	(c)	Increased fire risk	. Д			
	(d)	Poisoned stock	. 🗵			
	(e)	Decreased native plant or animal populations and distribution				
	(f)	Decreased value of holding				
	(g)	Other weed-related problems	J			
3	30 .	that activities were undertaken to address weed-related blems on your holding between 1 July 2006 and June 2007? Ote Include both activities undertaken to manage existing problems and				
		activities undertaken to prevent problems occurring.	Please tick all that apply			
	(a)	Pulling, manual removal or chipping				
	(b)	Application of herbicides				
	(c)	Use of introduced biological control agents (e.g. insects)				
	(d)	Slashing, cutting or mowing				
	(e)	Cultivation (e.g. tillage, discing and grubbing)	. 📙			
	(f)	Crop or grazing management (e.g. rotation) to address weeds				
	(g)	Burning	. \square			
	(h)	Other				
	(i)	No activities		So to Question	on II	

9 What was the amount of effort (in person days) spent addressing weed-related problems on your holding between 1 July 2006 and 30 June 2007?

	•]	One person day equals 8 hours. For example: - 1 person working 8 hours a day = 1 person of a day for 8 days = 1 person working 1 hour a day for 8 days = 1 person days = 1 p	1 person day	Person days
	(a)	Owner/operator		
	(b)	Contractor or employee		
	(c)	Other (e.g. volunteer)		
10	on y	at was the financial cost of addressing our holding between 1 July 2006 and	•	
	(a)	Cost of herbicides used		
		IncludingOnly herbicide that was used between1 July 2006 and 30 June 2007	ExcludingHerbicides provided by contractors (include in Question 10(b))	\$, , , 00
	(b)	Total payments to contractors		\$, , , 00
		 cost of herbicides included in total contractors (estimate if unknown) 		• 00
	(c)	Labour costs		
		IncludingPayments to employeesOwners drawing a wage as an employee	ExcludingPayments to contractors (include in Question 10(b))Voluntary or unpaid work	\$
	(d)	Other expenses		¥ 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		 Including Purchase of fuel, minor equipment and supplies used specifically to address weed-related problems 	ExcludingPurchase of capital equipment	
		Maintenance of capital equipment		\$, , , • 00
	(e)	Total financial cost of addressing we	ped-related problems	\$, , , , , , , , , , , , , , , , , , ,
	(0)	Total infancial cost of addressing we	ed-related problems	
1		erall, how have the weed-related pronged between 1 July 2006 and 30 July		Please tick one box only
	(a)	Increased		
	(b)	Stayed the same		
	(c)	Decreased		

Part D – Pests NRM07

12	What types of pests (including parasites) affected your holding between 1 July 2006 and 30 June 2007?		Please tick one box per line only		
			Not a problem	Minor problem	Major problem
	(a)	Native animal and bird pests (e.g. dingoes, kangaroos, crows, etc.)	<u> </u>		
	(b)	Feral and domestic animals (e.g. dogs, foxes, rabbits, introduced birds, rodents, etc.)	<u> </u>		
	(c)	Insect pests (e.g. flies, aphids, etc.)	—		
	(d)	Other pests (e.g. parasites, slugs, nematodes, mites, etc.)			
	(e)	Did not have any pests	Go	to Questio	on 14
13	Plea	ase indicate the extent to which the following pest-related	Please tick	one box per	line only
	problems affected your holding between 1 July 2006 and			-	
	<i>5</i> 0 J		Not a problem	Minor problem	Major problem
	(a)	Decreased livestock production (e.g. killed or harmed livestock)	<u> </u>		
	(b)	Crop damage or decreased crop production	<u> </u>	. 🗆	
	(c)	Decreased native plant or animal populations and distribution	<u> </u>	. 🗆	
	(d)	Other pest-related problems	<u> </u>	. 🗆	
14		at activities were undertaken to address pest-related problem your holding between 1 July 2006 and 30 June 2007?	ıs		
		Include both activities undertaken to manage existing problems and activities undertaken to prevent problems occurring.	Please tie		
	(a)	Use of pesticides and/or insecticides (including drenches, sprays, dips, etc.)			
	(b)	Use of introduced biological control (e.g. predatory insects, pheromones, etc.)			
	(c)	Baiting			
	(d)	Shooting or trapping			
	(e)	Fencing and/or netting (including construction and/or maintenar	nce)		
	(f)	Crop or grazing management to address pests			
	(g)	Crutching			
	(h)	Other activities			
	(i)	No activities		Go to (Question 17

What was the amount of effort (in person days) spent addressing pest-related problems on your holding between 1 July 2006 and 30 June 2007?

	•]	One person day equals 8 hours. For example: - 1 person working 8 hours a day = 1 person of a day = 1 person working 1 hour a day for 8 days = 8 people working 1 hour each = 1 person day if exact figures are not available, please provides	1 person day y	Person days
	(a)	Owner/operator		
	(b)	Contractor or employee		
	(c)	Other (e.g. volunteer)		
16	on y	at was the financial cost of addressing vour holding between 1 July 2006 and Cost of pesticide/insecticide used		
		 Including Only pesticides/insecticide (including drenches, etc.) that were used between 1 July 2006 and 30 June 2007 	ExcludingPesticides/insecticides provided by contractors (include in Question 16(b))	y \$, , , 00
	(b)	Total payments to contractors		\$, , , , , , , , , , , , , , , ,
		 cost of pesticides/insecticide inclu payments to contractors (estimate inclusion) 		• 00
	(c)	Labour costs		
		IncludingPayments to employeesOwners drawing a wage as an employee	ExcludingPayments to contractors (include in Question 16(b))Voluntary or unpaid work	• 00
	(d)	Other expenses		P 2 2
		 Including Purchase of fuel, minor equipment and supplies used specifically to address pest-related problems 	ExcludingPurchase of capital equipment	
		Maintenance of capital equipment		\$
	(e)	Total financial cost of addressing pe	st-related problems	\$, , , , , , , , , , , , , , , , ,
17		erall, how have the pest-related prob nged between 1 July 2006 and 30 Ju		lease tick one box only
	(a)	Increased		
	(b)	Stayed the same		
	(c)	Decreased		

Part E - Land and soil

18 What were the land and soil problems on your holding, and the area affected by them, between 1 July 2006 and 30 June 2007?

- To convert acres to hectares, divide acres by 2.47.
- If exact figures are not available, please provide careful estimates..
- The same area may be reported more than once.

• Pr	oblems that are under control due to eventative action					
		Please tick	one box per li	ne only	79	
		Not a problem	Minor problem	Major problem	Area affected Hectares	
(a) S	Soil acidity		. 🗆		, , ,	• [
(b) S	Sodicity (sodium in the soil)	. 🗌	. 🗆 🦲		, ,	• [
(c) I	Oryland salinity	. 🗆	 .	. 🗆	, ,	• [
(d) I	rrigation salinity			. 🗆	, ,	• [0
(e) S	Soil compaction			. 🗆	, ,	• [0
(f) S	Surface waterlogging	P	. 🗆	. 🗆	, , ,	• [
(g) I	Erosion		. 🗆	. 🗆	, ,	• [
(h) (Other land and soil related problems	<u> </u>		. 🗆	, , ,	• [

What activities were undertaken to address land and soil problems on your holding between 1 July 2006 and 30 June 2007?

	Including • Both activities undertaken to manage existing problems and activities undertaken to prevent problems occurring	 Excluding Activities undertaken to prevent or manage weed or pest-related problems (include in Questions 8 and 14 respectively) 	
			ease tick all that apply
(a)	Crop and/or pasture type or m	nanagement	
(b)) Grazing management or use of	of particular stock types	
(c)	Construction of earthworks, d	rains or water pumping	
(d)) Changed cultivation methods	or practice	
(e)	Changed irrigation methods o	r practice	
(f)	Changed fertilisation methods	s or practice	
(g)	Tree or shrub planting or main	ntenance	
(h)	Construction and/or maintena protect sensitive areas		
(i)	Addition of soil conditioners gypsum, dolomite, etc.)	(including lime,	
(j)	Soil testing (e.g. pH, salt cont	ent)	
(k)	Other activities		
(1)	No activities		Go to Question
	50		

Part E – Land and soil – (continued)

What was the amount of effort (in person days) spent addressing land and soil problems on your holding between 1 July 2006 and 30 June 2007?

	•]	One person day equals 8 hours. For example: - 1 person working 8 hours a day = 1 person - 1 person working 1 hour a day for 8 days = - 8 people working 1 hour each = 1 person d If exact figures are not available, please prov	e 1 person day ay	Person days
	(a)	Owner/operator		
	(b)			
1		Other (e.g. volunteer)	ing land and soil problems nd 30 June 2007?	
	(a)	 Including Only soil conditioners that were used between 1 July 2006 and 30 June 2007 	Excluding • Fertilisers primarily used to	\$, , , 00
	(b)	Total payments to contractors - cost of soil conditioners included to contractors (estimate if unknown)	in total payments	\$, , 00
	(c)	Labour costs		
		IncludingPayments to employeesOwners drawing a wage as an employee	 Excluding Payments to contractors (include in Question 21(b)) Voluntary or unpaid work 	\$, , , 00
	(d)	Other expenses		
		 Including Purchase of fuel, minor equipment and supplies used specifically to address land and soil problems Maintenance of capital equipment 	ExcludingPurchase of capital equipment	\$ 00
	(e)	Total financial cost of addressing la	and and soil problems	\$, , , 00
2		erall, how have the land and soil pronged between 1 July 2006 and 30 Ju		Please tick one box only
	(a)	Increased		
	(b)	Stayed the same		

Part F – Farm management

23		ich of the following did you have for all or part of your ding between 1 July 2006 and 30 June 2007?	Please tick all	that apply
			Have, but not documented	Documented for holding
	(a)	A farm management strategy	🗆	
	(b)	A natural resource management strategy		
	(c)	Details on land and soil capacity	🗆 🔨	
	(d)	Information on existing or proposed Landcare works	🗆 🦲	
	(e)	Details of existing and/or intended structural and capital improvements		
	(f)	Native vegetation that is conserved or managed under covenant		
	(g)	Information on areas of conservation value		
	(h)	Management strategies in the event of extreme circumstances (such as drought, flood, fire)		
24	hav	None of the above ich of the following government initiatives/programs e you (or a property representative) been involved in ween 1 July 2006 and 30 June 2007?		
	* T	te This includes involvement both on the farm and off the farm.		51 · · · · · · · · · · · · · · · · · · ·
				Please tick all that apply
	(a)	National Landcare Program		
	(b)	Other Natural Heritage Trust Program (excluding National	Landcare Program)
	(c)	National Action Plan for Salinity and Water Quality		
	(d)	Other government initiatives/programs (please specify in B	SLOCK letters)	🗆
	(e)	None of the above		

Part G – Natural resource management

What were your reasons for improving your natural resource management practices (including management of native vegetation, weed, pest, land and soil, and water-related problems) between 1 July 2006 and 30 June 2007, and how important were they?

Please tick one box per line only

			Not a reason	Low importance	High importance
	(a)	Increase productivity			
	(b)	Increase land value			
	(c)	Improve risk management			,
	(d)	Farm sustainability			
	(e)	Improve environmental protection			
	(f)	Other reasons (Please specify)	🗆		
	(g)	Not applicable - did not improve natural reso management practices in this period	ource		
3 / /1 /				Please tick all that apply	
	(a)	Lack of financial resources			
	(b)	Lack of time			
	(c)	Lack of Government incentives			
	(d)	Age and/or ill health			
	(e)	Doubts about likely success			
	(f)	Conflicting information			
	(g)	Differing management views			
	(h)	Insufficient or inadequate information			
	(i)	Other barriers			
	(j)	No barriers			

27 Do you consider the climate affecting your holding (average temperature, rainfall patterns, evaporation, etc.) has changed?

	Dor	No Go to Question 32 Yes					
28		nat changes to the climate have you experienced on ar holding?		Please tick that app			
	(a)	Warmer temperatures					
	(b)	More extreme weather events (for example, longer droughts, more intense or larger hail or frost events)		🗆			
	(c)	Changes in rainfall patterns (for example, increases or decreases in rainfall amount, changes in seasonality)					
	(d)	Other (please specify in BLOCK letters)					
29	What impact have these changes to the climate had on your holding? Please tick one box per line only						
	you	in nothing.	Not	Minor	Major		
		ar	pplicable	impact	impact		
	(a)	Increased the level of production	<u> </u>				
	(b)	Decreased the level of production		<u> </u>	. 🗆		
	(c)	Increased the frequency or extent of pests, weeds or disease	<u> </u>	<u> </u>			
	(d)	Decreased the frequency or extent of pests, weeds or disease	<u> </u>	<u> </u>			
	(e)	Other (please specify in BLOCK letters)	<u> </u>	<u> </u>			

0	Have you modified your management practices in response to changing climate?					
	No Go to Question 32					
	Yes					
1	In response to changed climate, what changes have you made to your management practices?					
	 Excluding Changes made that are not in response to change in climate Please tick all that apply 					
	(a) Changed the type or variety of commodities that are produced					
	(b) Changed the intensity of cropping and/or grazing					
	(c) Changed rotation or fallow practices					
	(d) Changed the time of planting and/or harvesting					
	(e) Changed watering/irrigation practices					
	(f) Other (please specify in BLOCK letters)					
al	rt I – Comments and time taken					
2	Please provide comments					
 on any reporting problems or information unrelated to specific data you have supplied on this form 						
 on data you have supplied or any unusual circumstances which affected your agricultural activity in 2006-07 (e.g. drought, flood, fires, hailstorms, etc.) 						
	 on any questions which caused problems or suggested improvements to this form (Please use BLOCK letters) 					
3	Please provide an estimate of the time taken to complete this form					
	 Including The time actually spent reading the instructions, working on the questions and obtaining the information 					
	The time spent by all employees in collecting and providing this information hrs mins					



