# Land Management Practices Survey 2008-09

**LMPS** 

In correspondence, please quote this number						
	•		correct an	-		
Purpose of Collection This survey will collect information on the land management adopted by farmers in the Great Barrier Reef catchments. will be used by the Australian Government to determine catagricultural land management practices over time.  Collection Authority The information asked for is collected under the authority	The da	ata in				
Census and Statistics Act 1905. Your co-operation is so completing and returning this form by the due date. The Act me with the power, if needed, to direct youto provide the an sought.  Confidentiality  Your completed form remains confidential to the Australia	sought t proving format	in on eau	<u>Y</u>			
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# SAMPLE ONLY

	LMPS

#### Please read this first

3

- **Important**: This form will be read using electronic equipment.
- Use **only black ball point pen** when completing this form.
- Please report area figures in whole numbers except where instructed otherwise, for example

3 2 · 0 or 5 8 ·	7
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• Keep each number, letter or tick within the data entry boxes provided, for example

C A	IRNS	or	/

- Do not use 'nil', 'n/a' or draw a line in the data entry boxes.
- Leave answer boxes blank where you have no response or data to enter.

- You will need to report an estimate of time taken when you have completed this form.
- If a mistake is made, cross out the incorrect answer and either write the answer in the remaining boxes, for example

or if not enough space is left, write next to the relevant item, for example

- 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.

#### Part A - The holding

#### Including

• Any of your land used by sharefarmers

#### Excluding

- Other people's land on which you sharefarm
- Any land under a Stock Grazing
  Permit and/or other short term leave or licence issued over the QPWS estate

  (any land Furests of Privation Parks)



#### Note

- Answer No if you leased part of this holding to others.
- Answer No if you leased any additional land from others (including crown land).

No Go to Question 1(b)		
Yes Go to Question 2		Hectares
(b) Record the area of the holding as shown on page 2	,	,

- (e) Any additional freehold land owned by you in the catchment ... ... ...
- (f) Any additional land leased by you in the catchment (excl. Stock Grazing Permits and any other short term lease or licence issued over the QPWS estate)

#### **Equals**

(g) The total area of land operated or managed by you in the catchment  $\,\ldots\,$ 



2 Please provide a breakdown of the total area of the holding according to the main use of the land between 1 July 2008 and 30 June 2009

		\$
•	Please report part hectares. To convert acres to hectares, divide acres by 2.47. If exact figures are not available, please provide careful estimates.	
L	and 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 houses and buildings, services and access areas, water bodies, mining leases where the lease area cannot be used for agriculture and other agriculturally unproductive or inaccessible areas)	
$\mathbf{L}_{i}$	and mainly used for agricultural production:	
(c	Land mainly used for crops (including sugar, grains, vegetables, fruit, nuts, 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	
	<ul> <li>Grazing on other land (including natural pastures/grasshands, rangelands woodland/shrubland, forested areas, riparian areas and swamps/welland)</li> </ul>	
(e	) Land mainly used for forestry plantation	
(f	Land mainly used for other agricultural purposes (including packing sheds, feedlots, piggery and poultry sheds)	•
(g	Total area of the holding (should equal the total area of the holding in Question 1)	
Part I	B – Soil testing for nutrients	
	testing for nutrients includes testing on the holding for macro nutrients N, P, K, S) and micro nutrients (e.g. Zn, Fe, Cu).	
	d any soil testing for nutrients occur on the holding between July 2008 and 30 June 2009?	
N	Go to Part C on page 5	
Ye	es	

4	What was the timing of 1 July 2008 and 30 Jun	0	utrients between	Tick all that apply	
	(a) Calendar basis (e.g	. weekly, monthly, y	yearly)		
	(b) Prior to planting				
	(c) Dependent on weat	her conditions			
	(d) None of the above				
5	Which of the following holding between 1 July	_	0	Tick all that apply	
	(a) Each paddock was yield/production in	tested on a regular l formation to make			
	(b) Soil samples were	based on soil types	across paddocks/blo	ocks	
	(c) Soil samples were	based on soil types	within paddocks/blo	ocks	
	(d) Random samples ta	aken across the hold	ing		
	(e) Geo-referenced san	nples from holding	soil maps		
	(f) Other				
Pai	rt C – Fertiliser use			-	1
_	Pertiliser includes both chemisuperphosphates etc., and 'by as dunder or mill mud ash  Did you apply aky for July 2008 and 30 June  No Go to Party	alliser to the holding		a,	
7	How much fertiliser w 1 July 2008 and 30 Jun	* *	Ü		
	Please convert liquid	Sugar		p type	
	fertilisers at ratio of 1000 Litres to 1 Tonne	Plant cane	Ratoons	Other crops	Pasture
		Tonnes	Tonnes	Tonnes	Tonnes
	(a) Chemical fertiliser	•	•	•	•
	(b) Dunder	•	•	•	•
	(c) Mill mud/ash			<b></b>	•
	(d) Animal manure	,	,	,	, , ,
	(e) Other fertilisers	•	•	•	,

ð	fertiliser to apply between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Leaf and/or stem tests	
	(b) Soil testing	
	(c) Soil type/productivity zone mapping	
	(d) Previous paddock yields	
	(e) Standard/historical annual rate	
	(f) Seasonal conditions	
	(g) Crop stage	
	(h) Cost of fertiliser	
	(i) Other	
9	Which of the following fertiliser application methods did you use between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Fertigation	
	(b) Surface application – broadcast	
	(c) Surface application – banded	(11)
	(d) Sub-surface application	
	(e) Split application	
	(f) None of the above	🗌
10	Which of the following factors did you consider when deciding to apply fertiliser between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Crop stage – pre planting	🗆
	(b) Crop stage – post harvest	
	(c) Crop stage – while crops actively growing	
	(d) Irrigation schedule	
	(e) Weather forecast	
	(f) Other	
11	Which of the following <u>external</u> factors did you consider when deciding how much fertiliser to apply between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Consultant's and/or contractor's recommendations	
	(b) Latest industry recommended rates	
	(c) Economic or productivity advice (e.g. as much as can be afforded up to the recommended rate)	🗌
	(d) None of the above	

12	How often was your fertiliser application equipment calibrated between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Never	
	(b) Calendar basis (e.g. weekly, monthly, yearly)	
	(c) Whenever a new product is used	
	(d) Whenever a new batch of fertiliser is used	
	(e) At each paddock/block	
	(f) Equipment automatically or self calibrates	
	(g) Not applicable - use contractors	
	(h) None of the above	
13	Which of the following did you consider prior to determining fertiliser application rates between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Nutrient loss from previous crops	
	(b) Nutrients introduced by fertilising	
	(c) Nutrient levels in ground water	
	(d) Nutrient credits obtained training times and other introgen producing fancture produc	
	(e) None of the above	
Ne	rt D – Chemical use  ote Use of chemicals includes herbicides, insecticides, fungicides, plant growth regulators and miticides	
14	Did you use any herbicides on the holding between 1 July 2008 and 30 June 2009?	
	No Go to Question 17 Yes	
15	Did you apply any herbicides using spot spraying between 1 July 2008 and 30 June 2009?	
	Vac	

10	please report the area of land on which the following types of herbicides were used between 1 July 2008 and 30 June 2009	Hectares
	(a) Full rate of pre-emergents	•
	(b) Knockdown plus other herbicides	•
	(c) Knockdown only	, , ,
	(d) Not applicable	
17	Did you use any other chemicals (excluding chemicals associated with animal husbandry) on the holding between 1 July 2008 and 30 June 2009?	
	No Yes	
18	Which of the following methods did you use to decide when to apply chemicals between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Applied at a set time (e.g. weekly, monthly, crop cycle, post cycle, according to industry guidelines)	
	(b) Crop or stock monitoring	IF V
	(c) Weed or pest monitoring	1 L
	(d) Used a fully integrated well on the management program	
	(e) Other	
19	Which of the following methods did you use to apply chemicals on the holding between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Broadcasting or complete cover application	
	(b) Targeted application (e.g. spot spraying, shielded spraying, bonding)	
	(c) Other	
20	How often was your chemical application equipment calibrated between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Never	
	(b) Calendar basis (e.g. weekly, monthly, yearly)	
	(c) Whenever a new product is used	
	(d) Whenever a new batch of chemical is used	
	(e) At each paddock/block	
	(f) Equipment automatically or self calibrates	
	(g) Not applicable - use contractors	
	(h) None of the above	

21		you use any of the following <u>alternate</u> control methods for eds, pests or diseases between 1 July 2008 and 30 June 2009?	Tick all
	Ch	emical	that apply
	(a)	Rotated chemical groups to avoid resistance	
	(b)	Used chemicals you considered to be more environmentally friendly	y
	Me	chanical	
	(c)	Cultivation	
	(d)	Slashing	
	(e) Oth	Mulching or matting	
	(f)	Biological control (i.e introducing parasites, predators or pathogens as control methods)	
	(g)	Practiced good farm hygiene	
	(h)	Variety (crop or breed) selection	
	(i)	Break cropping	
	(j)	Controlled burning	
	(k)	Used National Standard for Organic and Bio-dynamic Produce	IPV
	(1)	None of the above	
22		you use any of the ollowing plactices to avoid 'off farm' mical loss between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a)	Used contour banking and/or row planting direction	
	(b)	Avoided planting times and chemical applications in periods of high rainfall risk or irrigation schedule	
	(c)	Used cover crops or inter row mulching	
	(d)	Changed farm layout to recommended industry best practice (e.g. silt traps, grassed spoon drains or rubble drains, vegetated buffer strips)	
	(e)	None of the above	
Pa	rt E	– Riparian management	
23		ich of the following riparian management practices did you on the holding between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a)	Actively controlled stock access to riparian areas	
	(b)	Riparian areas fully fenced off and alternate water points established	
	(c)	Cattle ramps constructed into creek and river banks to minimise damage	
	(d)	No rivers or creeks on the holding	
	(e)	None of the above	

## Part F – Surface water management

Which of the following water run-off management practices were used on the holding between 1 July 2008 and 30 June 2009?

		ote Water management practices include managing rainfall run-off.	
			Tick all that apply
		Recycling pits or sediment dams	
	(0)	modifying furrow shapes)	
	(c)	Grassed or rubble spoon drains	
	(d)	Contour banks, diversion banks or constructed waterways	
	(e)	Maintained at least 40% ground cover in riparian areas and/or constructed waterways	
	(f)	Ensured at least 40% ground cover remained on paddocks at the end of the 2008 dry season (October - November)	
	(g)	Other water run-off practices	
	(h)	Water run-off practices not required on the holding	
	1 Jo		
26	pra	nich of the following irrigation water management actices were in place on the holding between uly 2008 and 30 June 2009?	Tick all that apply
	(a)	Tail water reuse	
	(b)	Laser levelling	
	(c)	Alternate row irrigation scheduling	
	(d)	Water piping or channel covered/lined to reduce losses	
	(e)	Introduction of more efficient irrigation scheduling	
	(f)	Grassed waterways or channels	
	(g)	Efficient irrigation equipment	
	(h)	None of the above	

# Part H – Sugar cane

27	Did you grow sugar cane on the holding between 1 July 2008 and 30 June 2009?			
	No Go to Question <b>32</b>			
	Yes			
28	What area of land was prepared for sugar cane between 1 July 2008 and 30 June 2009, using the following:	Plant cane (Hectares)	Rato (Hecta	
	(a) Zero till	• 0		• 0
	(b) Minimal zonal till	• 0	, ,	• 0
	(c) Full cultivation	• 0	, ,	• 0
29	What crop residue (trash) management practices w your sugar cane crop between 1 July 2008 and 30 July		<b>V</b>	
	Note  Include each area only once. Include failed crops.  Note	ONL	Нес	tares
	(a) Most trash removed by baling or other methods .		, ,	• 0
	(b) Trash removed by a hot burn (e.g. cane fire)		, ,	• 0
	(c) Trash removed by a cool burn (e.g. trash burn) .		, ,	• 0
	(d) Trash was incorporated into the soil		, ,	• 0
	(e) Trash was left untouched		, ,	• 0
30	Do you use a secondary (break) crop phase in your sugar cane cropping rotation?			
	No Go to Question 31		Tick one	
	Yes		box only	
	(a) A break crop was used in 2008-09			
	(b) The 2008-09 season did not allow for break cropp	ing		

31	Did you use any of the following on the holding between 1 July 2008 and 30 June 2009?	Tick all that apply		
	(a) Permanent or preformed beds			
	(b) Permanent traffic lanes			
	(c) Wheel spacing for all equipment (including harvesting) matching row spacing			
	(d) GPS guided steering technology			
	(e) Dual row harvesting			
	(f) Tillage according to mapped soil type zone across paddocks			
	(g) Zero till planter			
	(h) None of the above			
Par	rt I – Horticulture			
	Did you grow vogetables fruit berries or nuts commercially	IL'	4	
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14		Hectares	
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14  Yes SAMPLE  SAMPLE			• 0
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14  Yes SAMPLE  Please show the area sown			• 0
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14  Yes SAMPLE  Please show the area sown  (a) Vegetables			
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14 Yes SAMPLE  Please show the area sown  (a) Vegetables  (b) Fruit, berries or nuts  Was any area of horticultural cropping land left fallow			
32	Did you grow vegetables, fruit, berries or nuts commercially between 1 July 2008 and 30 June 2009?  No Go to Part J on page 14 Yes SAMPLE  Please show the area sown  (a) Vegetables  (b) Fruit, berries or nuts  Was any area of horticultural cropping land left fallow between 1 July 2008 and 30 June 2009?  No Go to Question 36			

36	Did you use any of the following on the holding between 1 July 2008 and 30 June 2009?	Tick all that apply
	(a) Permanent or preformed beds	
	(b) Permanent traffic lanes	
	(c) Wheel spacing for all equipment (including harvesting) matching row spacing	
	(d) GPS guided steering technology	
	(e) Dual row harvesting	
	(f) Zero till planter	
	(g) None of the above	
37	Did you use alternate or cover crops (to maintain ground cover) between your main horticultural crop plantings between 1 July 2008 and 30 June 2009?	
	No	
	Yes DIEONI	Y
38	Did you use any other management techniques (e.g. murching, matting) to point an ground cover between 1 July 2008 and 30 June 20022	
	No .	
	Yes	

## Part J – Broadacre crops and/or cotton (excluding sugar cane)

•	<ul> <li>Note</li> <li>Cultivation includes discing, ploughing, scarifying and harrowing etc.</li> <li>Include each area only once.</li> <li>Do not include post-sowing cultivation.</li> </ul>		
39	9 Did you prepare (spray, cultivate or sow) any land for b crops and/or cotton on the holding between 1 July 2008 30 June 2009?		
	No Go to Question 44 Yes		
4(	O Please show the area of land prepared for broadacre crecotton between 1 July 2008 and 30 June 2009, using the		
	(a) Zero till		0
	(b) Minimal zonal till		0
	(c) Full cultivation SAMPLE.		
<b>4</b> 1		and/or	
	<ul> <li>Including         <ul> <li>Areas which have been pasture topped, cultivated or had knockdown herbicides applied</li> </ul> </li> <li>Excluding         <ul> <li>Areas under pasture</li> <li>Fallow due to drough</li> </ul> </li> </ul>		
	(a) Less than 3 months		C
	(b) 3 to 9 months		0
	(c) More than 9 months		C

2	What crop residue or stubble management practices were used on your broadacre crops between 1 July 2008 and 30 June 2009?		
	<ul><li>Note</li><li>Include each area only once.</li><li>Include failed crops.</li></ul>	Hectares	
	(a) Stubble was left intact	•	0
	(b) Stubble removed by baling or other methods	•	0
	(c) Stubble removed by a hot burn (early season, summer)	•	0
	(d) Stubble removed by a cool burn (late season, autumn)	•	0
	(e) Stubble was incorporated into the soil	•	0
	(f) Stubble cut and left on the ground	•	0
	(g) Stubble grazed	•	0
3	Did you use GPS, controlled traffic or precision cropping techniques between 1 July 2008 and 30 June 2019?  No SASSAN SERVICE		
	Did you use GPS, controlled traffic or precision cropping techniques between 1 July 2008 and 30 June 2019?  No Yes SATTER		
aı			
aı	rt K – Beef cattle  Were any beef cattle kept on the holding between		
aı	rt K – Beef cattle  Were any beef cattle kept on the holding between  1 July 2008 and 30 June 2009?		
aı	rt K – Beef cattle  Were any beef cattle kept on the holding between  1 July 2008 and 30 June 2009?  No  Go to Question 49  Yes		
•a  4	rt K – Beef cattle  Were any beef cattle kept on the holding between 1 July 2008 and 30 June 2009?  No Go to Question 49  Yes  Which of the following beef cattle management practices did you use on the holding between 1 July 2008 and 30 June 2009?  Tick all		
•a  4	were any beef cattle kept on the holding between 1 July 2008 and 30 June 2009?  No Go to Question 49  Yes  Which of the following beef cattle management practices did you use on the holding between 1 July 2008 and 30 June 2009?  Tick all that appl		

(d) None of the above

46	Which of the following pasture management practices did you use on the holding between 1 July 2008 and 30 June 2009?	Tick all that apply			
	(a) Irrigated pastures				
	(b) Planted or managed pastures that last for 2 years or more (native or improved)				
	(c) Planted pastures that last for one year only (native or improved)				
	(d) Managed predominantly pre-existing native pastures				
	(e) Fenced according to land types				
	(f) Did not manage or improve pastures				
47	Are you able to provide an estimate of the extent of your ground cover at the end of the 2008 dry season (October - November)?				
	No Go to Question 49				
	Yes				
48	What is the estimate of the ground cover at that time?	Tick one box only			
	(a) Greater than 70%	17	<b>J</b>		
	(b) Between 40% and 70%	VL.	1		
	(c) Between 15% and 40%				
	(a) Greater than 70%  (b) Between 40% and 70%  (c) Between 15% and 40%  (d) Less than 15%				
Pa	rt K – Comments and time taken				
49	Please provide comments				
	<ul> <li>on any information you have supplied on this form (e.g. related to unusual movements or other factors) (Please use BLOCK letters)</li> </ul>				
	<ul> <li>on any difficulties you had providing the requested information, or suggested improvements to this form (Please use BLOCK letters)</li> </ul>				
50	Please provide an estimate of the time taken to complete this form				
	Including				
	The time actually spent reading the instructions, working on the questions			hrs	mins
	and obtaining the information  • The time spent by all employees in			1118	1111115
	collecting and providing this information				

Thank you for completing this form