

Pastoral – PDS Bulk Contract							
Group	Project Title	Project aim (lay terms)	Time frame	Due completion date	How long have the projects been operational	What is the level of industry contribution	How does the department engage the industry operator or sector in the current projects
PP 1	Precision Pastoral Management Tools Project	To develop precision forage and livestock management software tools for use by pastoral managers.	2011 to 2015	June 2015	12 months	The PPMT project involves nine research partners, with eight more to become involved during the life of the project. We have, to date, engaged with 17 small (<20 staff), five medium (20 to 199 staff) and nine large (>200 staff) organisations. Some of these research partners will be making available their livestock and properties to enable staff to carry out the research. At this stage it is not possible to ascertain the level of contribution.	Pastoralists have been informed of the project through articles in department newsletters of the WA and the NT governments and from media interviews with ABC radio in the NT and SA. Pastoralists have also been informed about the project during one-on-one discussions about what the project should deliver for the pastoral industry. There will continue to be engagement with the pastoral industry through focus groups, steering committees, print, radio, television and social media, field days and by engaging 6 cattle stations to be involved in the research and demonstration of the Precision Pastoral Management System. Pastoralist involvement and awareness of the project is critical to its success.
PPC 3	Tenderbuff Development and Supply.	Provide a local market for high quality buffalo meat as an alternative to the live export market.		Ongoing	Since 1990	Industry supplied many of the animals in the trade. Buffalo were sourced from a wide variety of producers for both direct sale or for fattening at BHF.	Feedback sheets were supplied to all producers taking buffalo to the abattoir.

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PPC 4	Riverine Buffalo and Crossbreeding Project.	Increase the numbers of purebred Riverine buffalo to a 100 head herd to supply good quality breeders for the meat and dairy sectors.		Ongoing	Since 1994 the first Riverine buffalo were imported.	Private producers have their own buffalo running at BHF on agistment to enable access to latest genetics and good management conditions. Agreement with NTBIC to 50% ownership of the purebred herd first imported from the US. \$2.50 per head per week for agistment fees once weaned.	The department is an associate member of the NTBIC and provides input at most meetings held and also provides the venue.
PPC 5	Enhancing Productivity Improvements in the Australian Water Buffalo Industry	Develop a multipronged approach to increase buffalo production efficiency in meat and dairy buffalo in Australia.	2007 to 2012	Feb 2012	Five-year project	Private producers have their own buffalo running at BHF on agistment to enable access to latest genetics and good management conditions. Agreement with NTBIC to 50% ownership of the purebred herd first imported from the US. \$2.50 per head per week for agistment fees once weaned.	Industry will be advised through the production of a manual for buffalo management.
PPR 10	Rangeland Burning trials - Barkly Tablelands	Improve understanding of the role of fire as a pasture management tool on the Mitchell Grasslands of the Barkly Tablelands.	2002 to 2007	Project Completed Aug 2011	2002 to 2007 = six years	Financial contribution difficult to estimate. In-kind includes paddocks to conduct burning trials, grading firebreaks, accommodation and meals for researchers.	The research is conducted on pastoral stations. Industry advises on research priorities via the Barkly Research Advisory Committee.

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PPC 11	North Australian Beef Fertility Project (Cash Cow)	Measure how much different factors affect reproduction in beef cattle.	2007 to 2012	Mar 2012	2007	Estimated in-kind value from industry 9000 head (15 herds) for three years @ \$20/head = \$540 000 total.	Station provides cattle and pays the costs of mustering and management. DoR provides data collection and analysis.
PPR 18	Carrying Capacity Project (CCP)	Intensive soil and pasture data collection to calibrate locally-relevant pasture growth models across important land types in the NT.	2003 to 2008	June 2012	2003 to 2008 = six years	Financial contribution difficult to estimate. In-kind includes providing areas of paddocks to measure pasture growth, grading firebreaks, accommodation and meals for researchers.	The research was conducted on >10 pastoral stations. Industry advises on research priorities via the Katherine and Alice Springs Pastoral Advisory Committees and the Barkly Research Advisory Committee.
PPR 19	Identifying optimum levels of pasture utilisation on Pigeonhole and Mount Sanford	Determine sustainable utilisation rates on black soils in the VRD.	2003 to 2008	June 2012	2003 to 2008 = six years	Heytesbury Pastoral was a major financial partner. Industry contribution in the order of \$1.8m.	The research was conducted on Pigeon Hole Station. Industry advised on research priorities via the Katherine Pastoral Industry Advisory Committee. Producers attended field days.
PPR 21	Newcastle Waters cell grazing trial	Determine the costs and benefits of a cell grazing system in the Barkly region.	2003 to 2005	June 2012	2003 to 2005 = three years	Financial contribution difficult to estimate. In-kind included use of paddocks and cattle for research, grading firebreaks, weighing cattle, providing a research assistant, accommodation and meals for researchers.	The research was conducted on Newcastle Waters station. Industry advises on research priorities via the Barkly Research Advisory Committee.

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PPC 22	Analysing the variations in weight gain performance of cattle	Identify the causes of variation in live weight gain in cattle on NT cattle stations.	2007 to 2012	Mar 2012	2007	Industry in-kind contributions estimated at 11 mobs, 250/mob @ \$20 = \$55 000 total.	Station provides cattle and pays the costs of mustering and management. DoR provide data collection and analysis.	
PPC 23	Industry initiative to improve heifer performance in the NT	Research and demonstrate ways of improving the fertility of heifers on commercial properties in the NT.	2004 to 2009	Main project 31/12/2009. Extension of Teyon work ongoing		Industry in-kind contributions estimated at -500 heifers x two years @ \$20/head = \$20 000.	Station provides cattle and pays the costs of mustering and management. DoR provide data collection and analysis.	
PPR 24	Land Type Specific Sustainable Practice Guidelines for NT Pastoral Lands	Test a new cost-effective technique for estimating safe pasture utilisation rates.	2009 to 2010	Project Completed Dec 2010	2009 to 2010 = two years	Financial contribution difficult to estimate. In-kind included time spent assisting researchers (one day per property, eight properties), accommodation and meals for researcher.	The research was conducted on eight pastoral stations. Industry advises on research priorities via the Katherine and Alice Springs Pastoral Advisory Committees and the Barkly Research Advisory Committee.	
PPR 25	Developing sustainable carrying capacities in the NT - Tennant Creek	Intensive soil and pasture data collection to calibrate locally-relevant pasture growth models across important land types in the NT.	2006 to 2010	June 2012	See PPR18 above.	See PPR18 above.	See PPR18 above.	

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PPR 26	Developing sustainable carrying capacities in the NT - Alice Region	Facilitate improved rangeland condition across Northern Australia through the development of methodologies for objective assessment of carrying capacity, including calibration of pasture growth models, for the Alice Springs region; and provide pastoralist with the capacity to make decisions on seasonal and long-term stocking strategies.	2006 to 2012	Dec 2012	See PPR18 above.	See PPR18 above.	See PPR18 above.

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PPR 31	Developing improved on-ground grazing practices and industry strategies for beef production enterprises across northern Australia to adapt to climate change	Evaluate and demonstrate business models and management practices that improve the resilience and performance of pastoral businesses. Sister project to BNBPO564.	2009 to 2012	1 May 2012	2009 to 2012 = three years	Financial contribution difficult to estimate. In-kind included time spent assisting researchers, attending workshops, meetings and field days. Accommodation and meals for researcher.	Research being conducted on two pastoral stations. Producers attended workshops and field days. Industry advises on research priorities via the Katherine and Alice Springs Pastoral Advisory Committees.
PPR 32	On-farm demonstration of adaptation and mitigation options for climate change across northern Australia	Evaluate the animal production, land condition, financial and emissions performance of a range of business models and management practices under current and future climate scenarios. Sister project to BNBPO616.	2010 to 2012	24 July 2012	2010 to 2012 = three years	At least \$87 000 (producer time, paddocks and cattle for use in research, attendance at field days, meetings, accommodation and meals for researchers).	Research being conducted on seven pastoral stations. Producers attended workshops and field days. Industry advises on research priorities via the Katherine Pastoral Advisory Committee and the Barkly Research Advisory Committee.

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PPC 33	Phosphorous Project	To determine the response to P supplementation using different strategies and to develop a diagnostic test for P deficiency.	2011-2012	30 Dec 2012	2010	Industry in-kind estimated at 650 cows x 1.5 years @\$20/head = \$19 500.	Station provides cattle and pay the costs of mustering and management. DoR provide data collection and analysis.
PPC 35	PDS Bulk Contract	Conduct six Producer Demonstration Sites in the Northern Territory.	2010 to 2015	31 July 2015	2010	Industry in-kind estimated at 485 head x two years @ \$20 = \$19 400.	Station provides cattle and pay the costs of mustering and management. DoR provide data collection and analysis (Growth Promotant trial).

Plant Industry – Externally-funded Projects							
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P	Quality management to enhance effective supply chains for mangoes and rambutans in Nusa Tenggara Barat, Indonesia and Australia	June 2008	Feb 2012	3.5 years	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.	
P	Integrated tropical passionfruit production systems in South Sulawesi	June 2008	Dec 2011	Four years	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.	
P	Impacts of deforestation and afforestation on greenhouse gas emissions, and carbon and water resources in the Daly River catchment, north Australia	Dec 2010	Nov 2013	Two years	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.	
P	Reducing skin damage and improving efficiency of Calypso mango	Mar 2011	May 2014	One year	Industry contributes \$80 000 to HAL for five years which makes up part of the project funding.	Report to funding body.	
P	Agriculture transforming to adapt to climate change; peanut industry expansion in the NT as a blueprint	Mar 2010	June 2012	Three years	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.	

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P	To investigate closed production systems for ornamental ginger production	July 2011	June 2015	0.5 years	Will be asked to contribute \$8000 towards the project.	Report to funding body + industry forums.

Plant Industry – Internally-funded Projects						
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P	Development of mango rootstocks	July 2010	Ongoing	One year	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.
P	Development of the rice industry in the NT	July 2010	June 2011	One year	No formal industry contribution; however, trial work is carried out on-farm.	Report to industry through Research Forums. Collaborative trials with Industry.

Biosecurity							
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BS	Viral and endogenous retroviral detection and characterisation in crocodiles	Study relationships between virus's and diseases in crocodiles to improve control measures for these diseases.	Jan 2009 to Oct 2011	Dec 2011	Three years	\$79 000 in-kind total project.	Regular meetings.
BS	Crocodile skin project	Investigation of skin blemishes on in-salt raw crocodile skins to increase proportion of high quality crocodile skins.	2009	Report in 2012 to stakeholders	Two years	\$96 000 in-kind \$15 500 skins total project.	Regular meetings.