Appendix 5 EPBC Act Offset Calculator

Offsets Assessment Guide For use in determining offsets under the Environment Protection and Biodiversity Conservation Act 1999 2 October 2012 This guide relies on Macros being enabled in your browser.

Matter of National Environmental Signifi	cance
Name	Malleefowl
EPBC Act status	Vulnerable
Annual probability of extinction Based on IUCN category definitions	0.2%

Key to Cell Colours	
User input required	
Drop-down list	
Calculated output	
Not applicable to attribute	

			Impact calcu	lator										
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imj	pact	Units	Information source							
			Ecological c	ommunities										
				Area										
	Area of community	No		Quality										
				Total quantum of impact	0.00									
	Threatened species habitat													
				Area	392	Hectares								
ator	Area of habitat	Yes		Quality	8	Scale 0-10								
Impact calculator				Total quantum of impact	313.60	Adjusted hectares								
Imp	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imj	pact	Units	Information source							
	Number of features e.g. Nest hollows, habitat trees	No												
	Condition of habitat Change in habitat condition, but no change in extent	No												
			Threatene	ed species										
	Birth rate e.g. Change in nest success	No												
	Mortality rate e.g. Change in number of road kills per year	No												
	Number of individuals e.g. Individual plants/animals	No												

										Offset calcu	ulato	r										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start arc qual		Future area an quality without o	ıd	Future are		Raw gain	Confidence in result (%)	Adjusted gain	Net presen (adjusted he		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
										Ecological	Com	munities										
		N				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset Future area without offset	.0	Risk of loss (%) with offset Future area with offset	0.0	-								
	Area of community	No				Time until ecological benefit		Start quality (scale of 0-10)		(adjusted hectares) Future quality without offset (scale of 0-10)		(adjusted hectares) Future quality with offset (scale of 0-10)										
Ī										Threatened	speci	es habitat					· · · ·					
-						Time over				Risk of loss (%) without 20 offset	0%	Risk of loss (%) with offset	5%									
ator	Area of habitat	a	which loss is averted (max. 20 years)	20	Start area (hectares)	1920	Future area without offset (adjusted hectares)	36.0	Future area with offset (adjusted hectares)	1824.0	288.00	90%	259.20	249.05	337.20	107.53%	Yes					
Offset calculator						Time until ecological benefit	1	Start quality (scale of 0-10)	8	Future quality without offset (scale of 0-10)	7	Future quality with offset (scale of 0-10)	8	1.00	90%	0.90	0.90					
Offs	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon	(years)	Start v	alue	Future value without offset		ut Future value with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net presen	it value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
	Number of features e.g. Nest hollows, habitat trees	No																				
	Condition of habitat Change in habitat condition, but no change in extent	No																				
										Threate	ned sj	pecies									·	
	Birth rate e.g. Change in nest success	No																				
	Mortality rate e.g Change in number of road kills per year	No																				
	Number of individuals e.g. Individual plants/animals	No																				

				Sur	nmary							
			Net			Cost (\$)						
	Protected matter attributes	Quantum of impact	nuccont	% of impact offset	Direct offset adequate?	Direct offset (\$)	Other compensatory measures (\$)	Total (\$)				
	Birth rate	0				\$0.00		\$0.00				
Summary	Mortality rate	0				\$0.00		\$0.00				
Sumr	Number of individuals	0				\$0.00		\$0.00				
•1	Number of features	0				\$0.00		\$0.00				
	Condition of habitat	0				\$0.00		\$0.00				
	Area of habitat	313.6	337.20	107.53%	Yes	\$0.00	N/A	\$0.00				
	Area of community	0				\$0.00		\$0.00				
	•					\$0.00	\$0.00	\$0.00				

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Matter of National Environmental Signif	icance
Name	Chuditch
EPBC Act status	Vulnerable
Annual probability of extinction Based on IUCN category definitions	0.2%

Key to Cell Colours
User input required
Drop-down list
Calculated output
Not applicable to attribute

			Impact calcu	lator										
	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	pact	Units	Information source							
			Ecological c	ommunities										
				Area										
	Area of community	No		Quality										
				Total quantum of impact	0.00									
	Threatened species habitat													
				Area	392	Hectares								
ator	Area of habitat	Yes		Quality	8	Scale 0-10								
Impact calculator				Total quantum of impact	313.60	Adjusted hectares								
Imp	Protected matter attributes	Attribute relevant to case?	Description	Quantum of imp	pact	Units	Information source							
	Number of features e.g. Nest hollows, habitat trees	No												
	Condition of habitat Change in habitat condition, but no change in extent	No												
			Threatene	d species										
	Birth rate e.g. Change in nest success	No												
	Mortality rate e.g. Change in number of road kills per year	No												
	Number of individuals e.g. Individual plants/animals	No												

										Offset c	alculato	r										
	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (	years)	Start are quali		Future are quality witho	a and	Future are		Raw gain	Confidence in result (%)	Adjusted gain	Net preser (adjusted h		% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
										Ecolog	ical Com	munities										
F	Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset Future area without offset (adjusted hectares)	0.0	Risk of loss (%) with offset Future area with offset (adjusted hectares)	0.0	-								
						Time until ecological benefit		Start quality (scale of 0-10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)										
	Threatened species habitat																					
tor	Area of habitat	Yes	313.60	Adjusted hectares		Time over which loss is averted (max. 20 years)	20	Start area (hectares)	1920	Risk of loss (%) without offset Future area without offset (adjusted hectares)	20%	Risk of loss (%) with offset Future area with offset (adjusted hectares)	5% 1824.0	288.00	90%	259.20	249.05	337.20	107.53%	Yes		
Offset calculator						Time until ecological benefit	1	Start quality (scale of 0-10)	8	Future quality without offset (scale of 0-10)	7	Future quality with offset (scale of 0-10)	8	1.00	90%	0.90	0.90					
Offs	Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (	years)	i) Start value		t value Future value without offset		Future valu offset		Raw gain	Confidence in result (%)	Adjusted gain	Net preser	nt value	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source
	Number of features e.g. Nest hollows, habitat trees	No																				
	Condition of habitat Change in habitat condition, but no change in extent	No																				
										Thr	eatened s	pecies										
	Birth rate e.g. Change in nest success	No																				
	Mortality rate 2.g Change in number of road kills per year	No																				
	Number of individuals e.g. Individual plants/animals	No																				

				Sur	nmary							
			Net			Cost (\$)						
	Protected matter attributes	Quantum of impact	nvocont	% of impact offset	Direct offset adequate?	Direct offset (\$)	Other compensatory measures (\$)	Total (\$)				
	Birth rate	0				\$0.00		\$0.00				
Summary	Mortality rate	0				\$0.00		\$0.00				
Sumi	Number of individuals	0				\$0.00		\$0.00				
•	Number of features	0				\$0.00		\$0.00				
	Condition of habitat	0				\$0.00		\$0.00				
	Area of habitat	313.6	337.20	107.53%	Yes	\$0.00	N/A	\$0.00				
	Area of community	0				\$0.00		\$0.00				
-	•					\$0.00	\$0.00	\$0.00				