

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 Significance	
Name	Swift Parrot
EPBC Act status	Critically Endangered
Annual probability of extinction Based on IUCN category definitions	6.8%

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

Impact calculator						
Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
<i>Ecological communities</i>						
Area of community	No		Area			
			Quality			
			Total quantum of impact	0.00		
<i>Threatened species habitat</i>						
Area of habitat	Yes	45.76 ha of direct, partial and mitigated indirect impacts, mainly to poor quality habitat with few foraging species	Area	45.76	Hectares	ELA Survey
			Quality	3	Scale 0-10	
			Total quantum of impact	13.73	Adjusted hectares	
<i>Threatened species</i>						
Number of features e.g. Nest hollows, habitat trees	No					
Condition of habitat Change in habitat condition, but no change in extent	No					
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 calculator																									
Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)	Start area and quality	Future area and quality without offset	Future area and quality with offset	Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset requirement met?	Cost (\$ total)	Information source									
<i>Ecological Communities</i>																									
Area of community	No				Risk-related time horizon (max. 20 years)	Start area (hectares)	Risk of loss (% without offset)	Risk of loss (% with offset)																	
					Time until ecological benefit	Start quality (scale of 0-10)	Future area without offset (adjusted hectares)	0.0	Future area with offset (adjusted hectares)	0.0															
							Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)																
<i>Threatened species habitat</i>																									
Area of habitat	Yes	13.73	Adjusted hectares	143.80 of existing habitat in large connected patches in two BSA sites	Time over which loss is averted (max. 20 years)	20	Start area (hectares)	143.8	Risk of loss (% without offset)	5%	Risk of loss (% with offset)	1%	Raw gain	5.75	Confidence in result (%)	95%	Adjusted gain	5.46	Net present value	1.47					
					Time until ecological benefit	10	Start quality (scale of 0-10)	7	Future area without offset (adjusted hectares)	136.6	Future area with offset (adjusted hectares)	142.4													
							Future quality without offset (scale of 0-10)	5	Future quality with offset (scale of 0-10)	8	3.00	95%	2.85	1.48											
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Summary							
Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Cost (\$)		
					Direct offset (\$)	Other compensatory measures (\$)	Total (\$)
					Birth rate	0	
Mortality rate	0				\$0.00		\$0.00
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	13.728	21.34	155.44%	Yes	\$0.00	N/A	\$0.00
Area of community	0				\$0.00		\$0.00
					\$0.00	\$0.00	\$0.00