

# Risk Assessment

The following risk assessment determines the risk of **Green Anaconda *Eunectes murinus*** to Tasmania using the Bomford model (2008) and proposes assigned threat categories and import classifications for the species

Species:	Green Anaconda <i>Eunectes murinus</i>	
Date of Assessment:	May 2018	
Literature search type and date:	Alien Reptiles and Amphibians – Fred Kraus Species profile Various internet sites	
Factor	Score	
A1. Risk posed from individual escapees (0-2)	1	<i>The animal sometimes attacks when unprovoked and/or is capable of causing serious injury (requiring hospitalisation) or fatality.</i>
A2. Risk to public safety from individual captive animals (0-2)	0	
<b>Stage A. Risk posed by individual animals (risk that a captive or escape animal would harm people)</b>	<b>Public Safety Risk Score</b> = A1 + A2 = <b>1</b>	<b>Public Safety Risk Ranking</b> A ≥ 2, Highly Dangerous A = 1, Moderately Dangerous A = 0, Not Dangerous = <b>Moderately Dangerous</b>
B1. Family random effect value	-0.09	
B2. Proportion of introduction events that led to species establishment (Prop.species value)	.067	Four out of 61 introductions for the family Boidae
B3. S(Climate 6 value)	-1.88	
<b>Stage B. Likelihood of establishment (risk that a particular species will establish a wild population in Tasmania)</b>	<b>Establishment Risk Score</b> <b>0.08417</b>	<b>Establishment Risk Ranking</b> B = ≥0.86, Extreme B = 0.40-0.85, High B = 0.17-0.39, Moderate B = ≤ 0.16, Low = <b>Low</b>
C1. Taxonomic group (0-4)	0	Reptile.
C2. Overseas range size (0-2)	1	
C3. Diet and feeding (0-3)	0	Not a mammal.
C4. Competition for native fauna for tree hollows (0-2)	0	
C5. Overseas environmental pest status (0-3)	0	Never reported as an environmental pest.
C6. Climate match to areas with susceptible native species or communities (0-5)	0	No grid squares in the top five climate match classes.

C7. Overseas primary production (0-3)	1	Fish and sheep
C8. Climate match to susceptible primary production (0-5)	0	No climate match
C9. Spread disease (1-2)	1	
C10. Harm to property (0-3)	0	
C11. Harm to people (0-5)	3	
<b>Stage C. Quantitative Consequence Assessment</b>	<b>Consequence Score</b> = 6	<b>Consequence Risk Ranking</b> C > 19, Extreme C = 15-19, High C = 9-14, Moderate C < 9, Low = <b>Low</b>
Adverse impacts	Known to prey on domestic and agricultural animals	
Close relatives with similar behavioural and ecological strategies that have had adverse impacts elsewhere	<i>Yellow anaconda</i>	
Dietary generalists	Carnivorous	
Stir up sediments to increase turbidity in aquatic habitats	No ( but can live in aquatic habitat, but unlikely to have any impact)	
Occur in high densities in their native or introduced range	No	
Have the potential to cause poisoning and/or physical injury	Yes	
Harbour or transmit diseases or parasites that are present in Tasmania	Unknown	
Have close relatives among Tasmania's endemic reptiles and amphibians	No	
Are known to have spread rapidly following their release into new environments	No	
<b>Stage C. Qualitative Consequence Assessment</b>	<b>Low</b>	
<b>Stage C. Consequence of Establishment (risk that an established population would cause harm)</b>	Quantitative Consequence: Moderate Qualitative Consequence: Low <b>Highest Consequence Assessment: Moderate</b>	
<b>ASSIGNED THREAT CATEGORY:</b>	<b>MODERATE</b>	
<b>PROPOSED IMPORT CLASSIFICATION:</b>	<b>IMPORT RESTRICTED TO THOSE LICENSE HOLDERS APPROVED FOR KEEPING MODERATE THREAT SPECIES</b>	

# Appendices

## APPENDIX A: CALCULATING TOTAL COMMODITY DAMAGE SCORE

Column 1	Column 2	Column 3	Column 4	Column 5
<b>Industry</b>	<b>Commodity Value Index (CVI)</b>	<b>Potential Commodity Impact Score (PCIS, 0-3)</b>	<b>Climate Match to Commodity Score (CMCS, 0-5)</b>	<b>Commodity Damage Score (CDS columns 2 x 3 x 4)</b>
<b>Cattle (includes dairy and beef)</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Timber (includes native and plantation forests)</b>	<b>10</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Aquaculture</b>	<b>6</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Sheep (includes wool and meat)</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Vegetables</b>	<b>5</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Fruit (includes wine grapes)</b>	<b>5</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Poultry (including eggs)</b>	<b>1.5</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Cereal grain (includes wheat, barley, sorghum etc)</b>	<b>1</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Other crops and horticulture (includes nuts and flowers)</b>	<b>1</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Pigs</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Bees (includes honey, beeswax, and pollination)</b>	<b>0.5</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Oilseeds (includes canola, sunflower etc)</b>	<b>0.5</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Grain legumes (includes soybeans)</b>	<b>0.3</b>	<b>N/A</b>	<b>0</b>	<b>0</b>
<b>Other livestock (includes goats and deer)</b>	<b>0.3</b>	<b>1</b>	<b>0</b>	<b>0</b>
<b>Total Commodity Damage Score (TCDS)</b>				<b>0</b>

## APPENDIX B: ASSIGNING SPECIES TO THREAT CATEGORIES

<b>A: Danger posed by individual animals</b> (risk a captive or escaped individual would harm people)	<b>B: Likelihood of establishment</b> (risk that a particular species will establish a wild population in Tasmania)	<b>C: Consequence of establishment</b> (risk that an established population would cause harm)	<b>Threat category</b>	<b>Implications for any proposed import into Tasmania</b>
Highly, Moderately or Not Dangerous	Extreme	Extreme	Extreme	Prohibited
Highly, Moderately or Not Dangerous	Extreme	High		
Highly, Moderately or Not Dangerous	Extreme	Moderate		
Highly, Moderately or Not Dangerous	Extreme	Low		
Highly, Moderately or Not Dangerous	High	Extreme		
Highly, Moderately or Not Dangerous	High	High		
Highly, Moderately or Not Dangerous	Moderate	Extreme		
Highly, Moderately or Not Dangerous	High	Moderate	Serious	Import restricted to those licence holders approved for keeping serious threat species
Highly, Moderately or Not Dangerous	High	Low		
Highly, Moderately or Not Dangerous	Moderate	High		
Highly Dangerous	Moderate	Moderate		
Highly Dangerous	Moderate	Low		
Highly, Moderately or Not Dangerous	Low	Extreme		
Highly, Moderately or Not Dangerous	Low	High		
Highly Dangerous	Low	Moderate		
Highly Dangerous	Low	Low		
Moderately or Not Dangerous	Moderate	Moderate	Moderate	Import restricted to those licence holders approved for keeping moderate threat species
Moderately or Not Dangerous	Moderate	Low		
Moderately or Not Dangerous	Low	Moderate		
Moderately Dangerous	Low	Low		
Not Dangerous	Low	Low	Low	Import permitted
Unknown	Any value	Any value	Extreme until proven otherwise	Prohibited
Any Value	Unknown	Any value		
Any Value	Any value	Unknown		
Unassessed	Unassessed	Unassessed		

