

Risk Assessment

The following risk assessment determines the risk of Capybara to Tasmania using the Bomford model (2008) and proposes assigned threat categories and import classifications for the species.

Species:		Capybara (<i>Hydrochoerus hydrochaeris</i>)
Date of Assessment:	12/3/2015	
Factor	Score	
A1. Risk posed from individual escapees (0-2)	1	http://www.babble.com/pets/exotic-pets-capybaras-giant-hamsters-arent-for-everyone/ http://gianthamster.com/2011/04/scary-scary-night/
A2. Risk to public safety from individual captive animals (0-2)	0	
Stage A. Risk posed by individual animals (risk that a captive or escape animal would harm people)	Public Safety Risk Score = A1 + A2 = 1	Public Safety Risk Ranking A ≥ 2, Highly Dangerous A = 1, Moderately Dangerous A = 0, Not Dangerous = Moderately dangerous
B1. Climate match score (1-6)	2	4 x 6, 1 x 7
B2. Exotic population established overseas score (0-4)	0	Little research into Florida population
B3. Overseas range size score (0-2)	1	12, 123, 000 km
B4. Taxonomic class score (0-1)	1	
Stage B. Likelihood of establishment (risk that a particular species will establish a wild population in Tasmania)	Establishment Risk Score = B1 + B2 + B3 + B4 = 4	Establishment Risk Ranking B = 11-13, Extreme B = 9-10, High B = 6-8, Moderate B ≤ 5, Low = Low
C1. Taxonomic group (0-4)	3	Rodents known to cause agricultural damage but not provided in list under C1, dot point 2 of the <i>Policy and Procedures for the Import, Movement and keeping of vertebrate fauna in Tasmania</i> .
C2. Overseas range size (0-2)	1	12, 123, 000 km

C3. Diet and feeding (0-3)	3	Mammal – browser or grazer
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. Florida not researched.
C6. Climate match to areas with susceptible native species or communities (0-5)	2	Highest climate match falls on RAMSAR wetland. Potential for disturbance of migratory bird species during breeding.
C7. Overseas primary production (0-3)	1	Some animals culled in farmland.
C8. Climate match to susceptible primary production (0-5)	2	44
C9. Spread disease (1-2)	2	
C10. Harm to property (0-3)	0	
C11. Harm to people (0-5)	1	
Stage C. Consequence of Establishment (risk that an established population would cause harm)	Consequence Risk Score = sum of C1 to C11 = 15	Consequence Risk Ranking C > 19, Extreme C = 15-19, High C = 9-14, Moderate C < 9, Low = High
ASSIGNED THREAT CATEGORY:	EXTREME SERIOUS MODERATE LOW EXTREME UNTIL PROVEN OTHERWISE	
PROPOSED IMPORT CLASSIFICATION:	PROHIBITED IMPORT RESTRICTED TO THOSE LICENCE HOLDERS APPROVED FOR KEEPING SERIOUS THREAT SPECIES IMPORT RESTRICTED TO THOSE LICENCE HOLDERS APPROVED FOR KEEPING MODERATE THREAT SPECIES IMPORT PERMITTED	

CALCULATING TOTAL COMMODITY DAMAGE SCORE

Column 1	Column 2	Column 3	Column 4	Column 5
Industry	Commodity Value Index (CVI)	Potential Commodity Impact Score (PCIS, 0-3)	Climate Match to Commodity Score (CMCS, 0-5)	Commodity Damage Score (CDS columns 2 x 3 x 4)
Cattle (includes dairy and beef)	11	1	2	22
Timber (includes native and plantation forests)	10			
Aquaculture	6			
Sheep (includes wool and meat)	5	1	2	10
Vegetables	5			
Fruit (includes wine grapes)	5	1	2	10
Poultry (including eggs)	1.5			
Cereal grain (includes wheat, barley, sorghum etc)	1	1	2	2
Other crops and horticulture (includes nuts and flowers)	1			
Pigs	1			
Bees (includes honey, beeswax, and pollination)	0.5			
Oilseeds (includes canola, sunflower etc)	0.5			
Grain legumes (includes soybeans)	0.3			
Other livestock (includes goats and deer)	0.3			
Total Commodity Damage Score (TCDS)				44

APPENDIX B: ASSIGNING SPECIES TO THREAT CATEGORIES

A: Danger posed by individual animals (risk a captive or escaped individual would harm people)	B: Likelihood of establishment (risk that a particular species will establish a wild population in Tasmania)	C: Consequence of establishment (risk that an established population would cause harm)	Threat category	Implications for any proposed import into Tasmania
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		
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		

