TASMAN RIVER PREDATOR CONTROL PROJECT

Specific objectives over 5 years

- (1) increase annual fledging success of hatched chicks of river birds by 10%
- (2) reduce annual adult river bird mortality by 10%
- (3) increase populations of river birds at an annual growth rate of ~5-10%
- (4) enhance populations of selected lizard and invertebrate species
- (5) ensure predator control does not negatively impact on native floristic values

Rationale for controlling predators

Predators are controlling native fauna populations

Which predators are responsible largely unknown

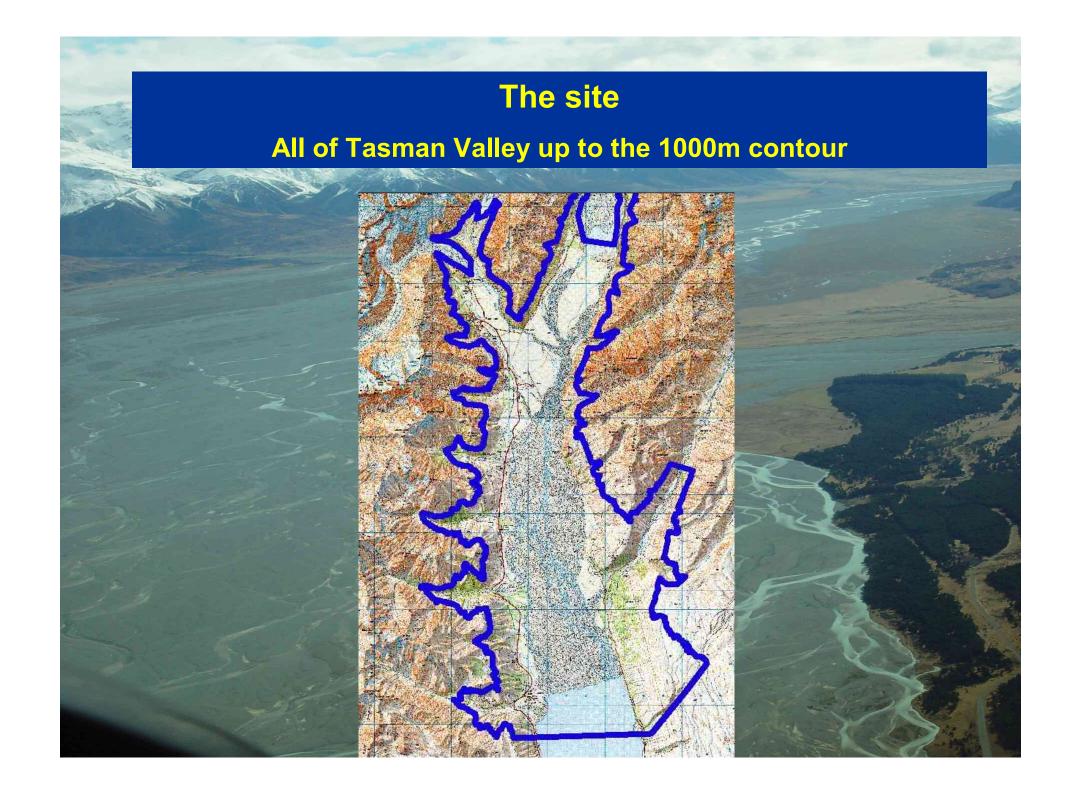
Control of most/all predator species will increase fauna populations

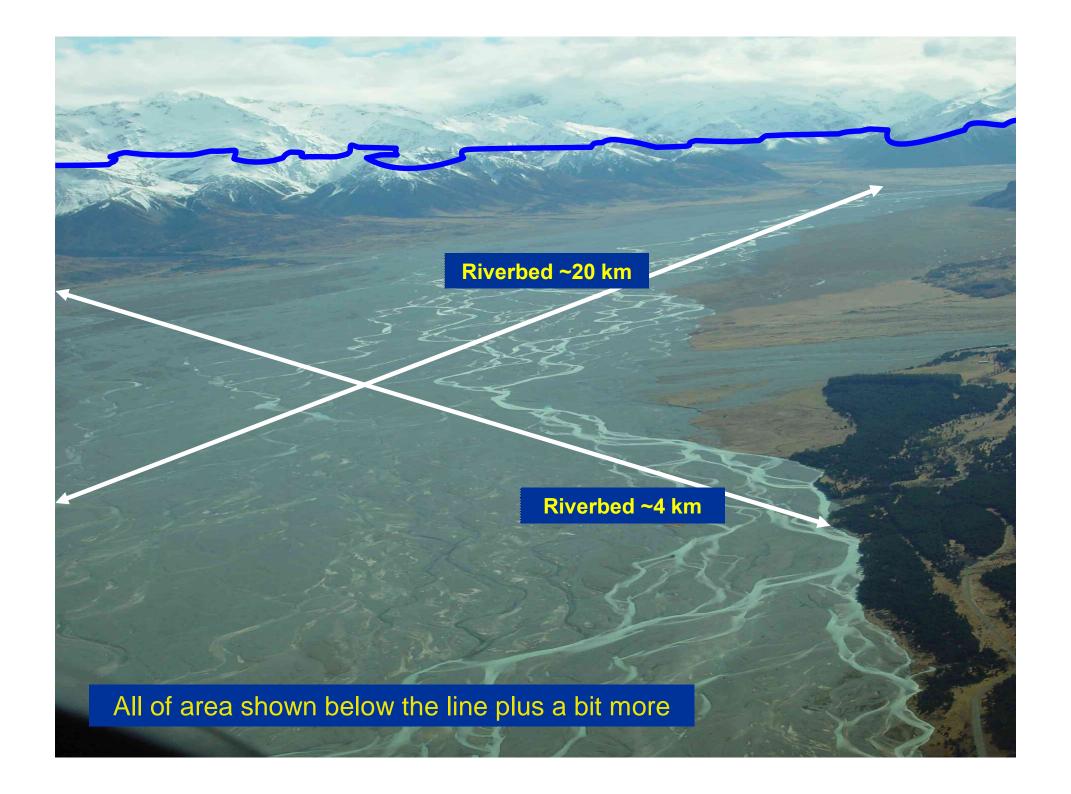
Overall goal

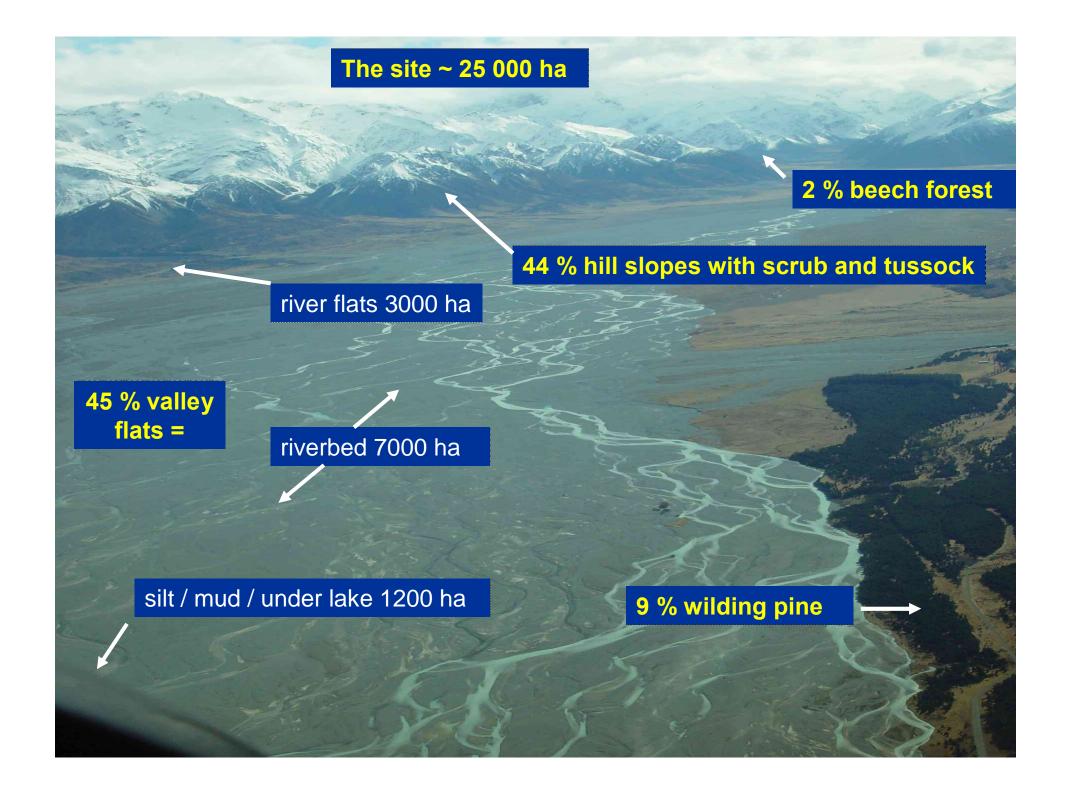
To maintain functioning braided river valley ecosystems by limiting the impact of exotic species

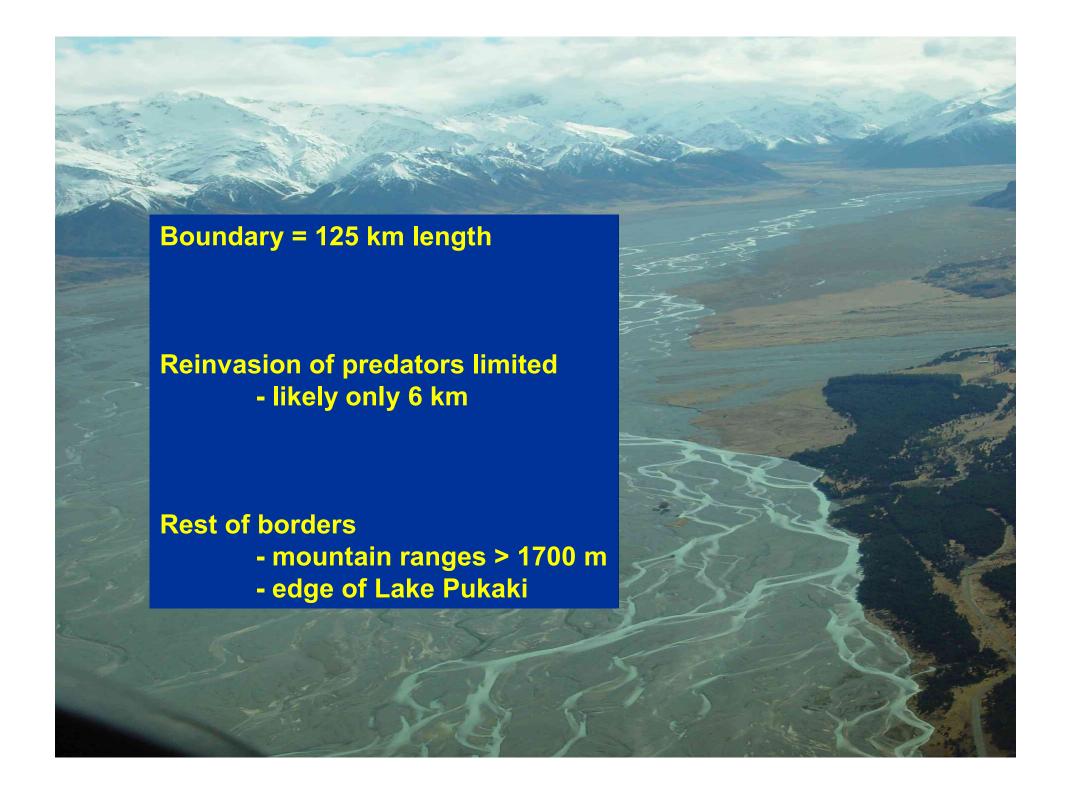
Goal for predator control

To reduce predation rates to a level where native species are thriving









Target Species

Cat, stoat, ferret, weasel, rats, hedgehogs, possums – not mice

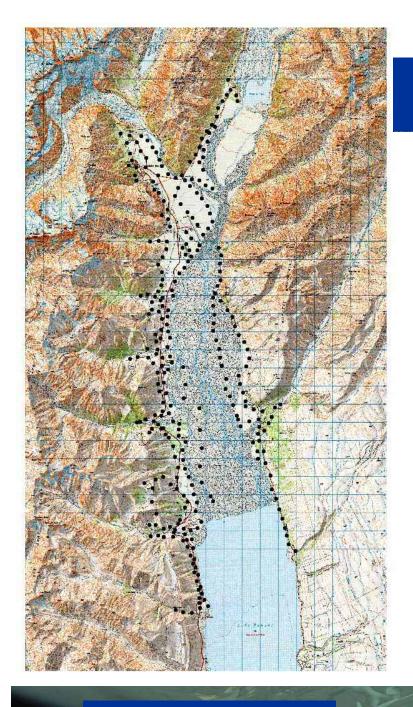
Opportunistic black-backed gull control

No harrier control (by agreement with run-holder)

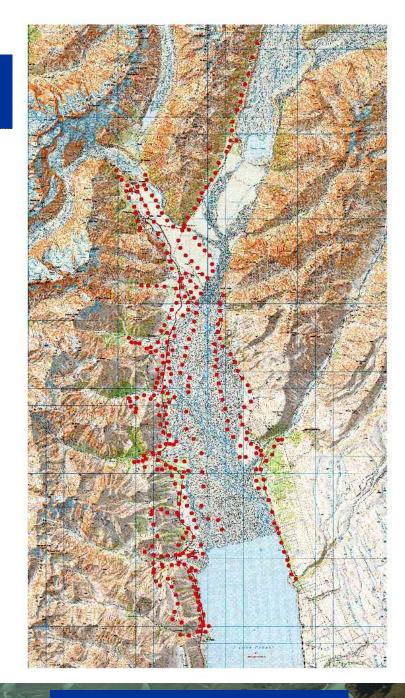
" No falcon control

Aim is sustainable levels of control, all year round, over many years and repeatable methods for other sites





Trap maps



Total number of traps and trap nights

294 Fenns

320 DOC 250s

235 Conibear traps

425 Victor leg-hold

240 000 trap nights per year for kill traps

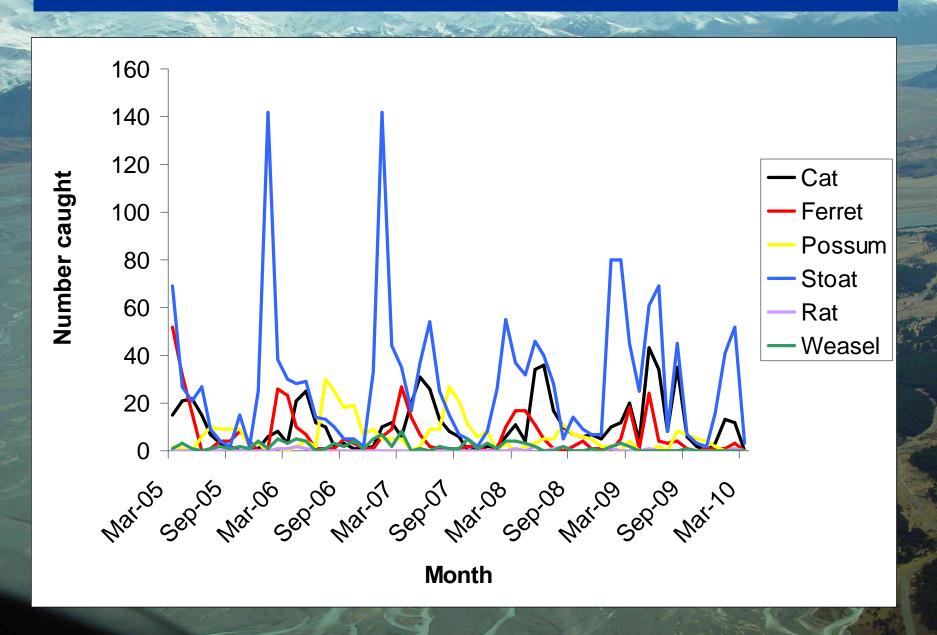
2800 trap nights per year for leg-holds

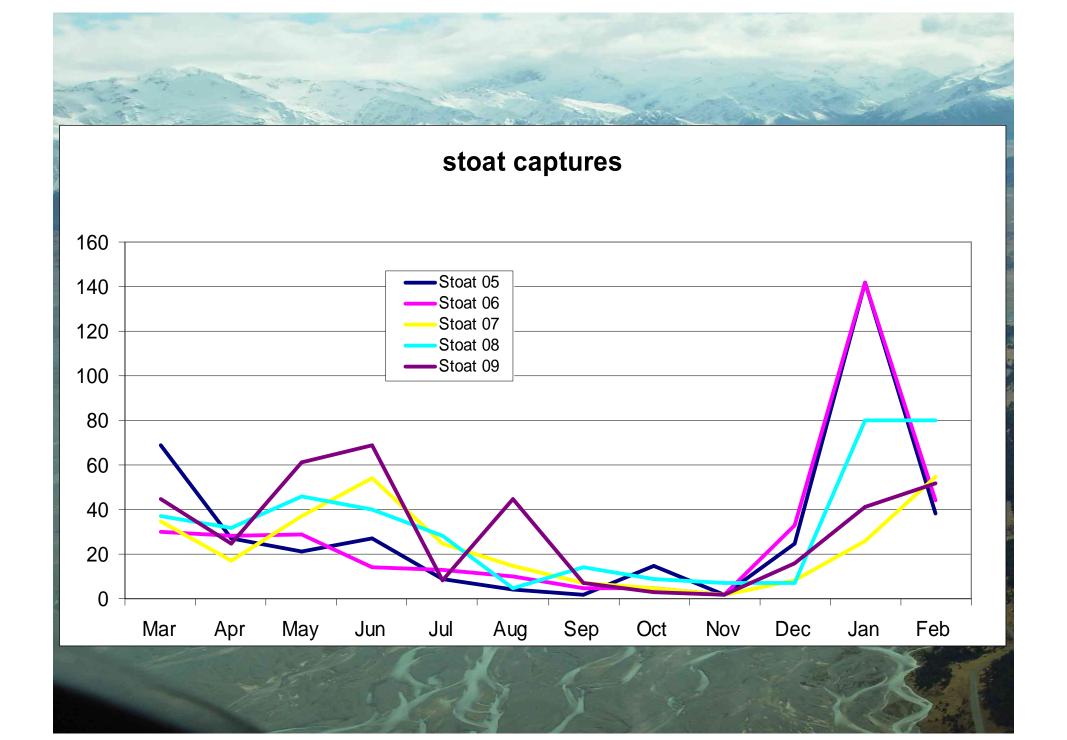


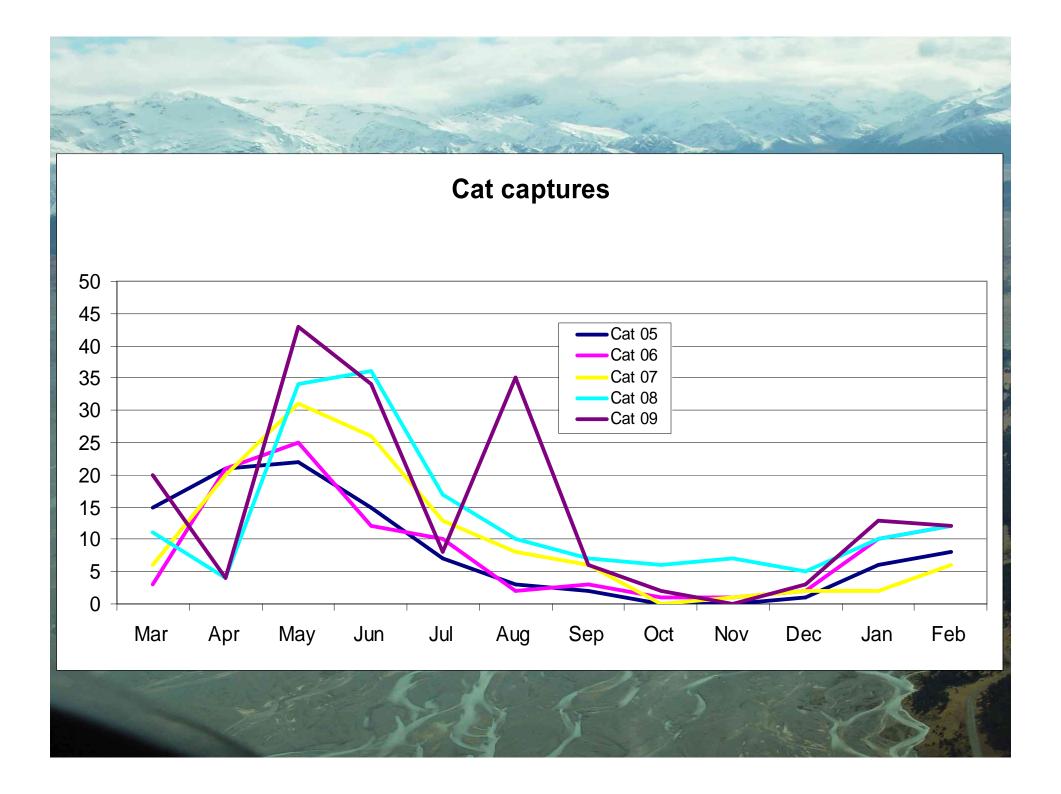
Target Captures (as at Feb 10)

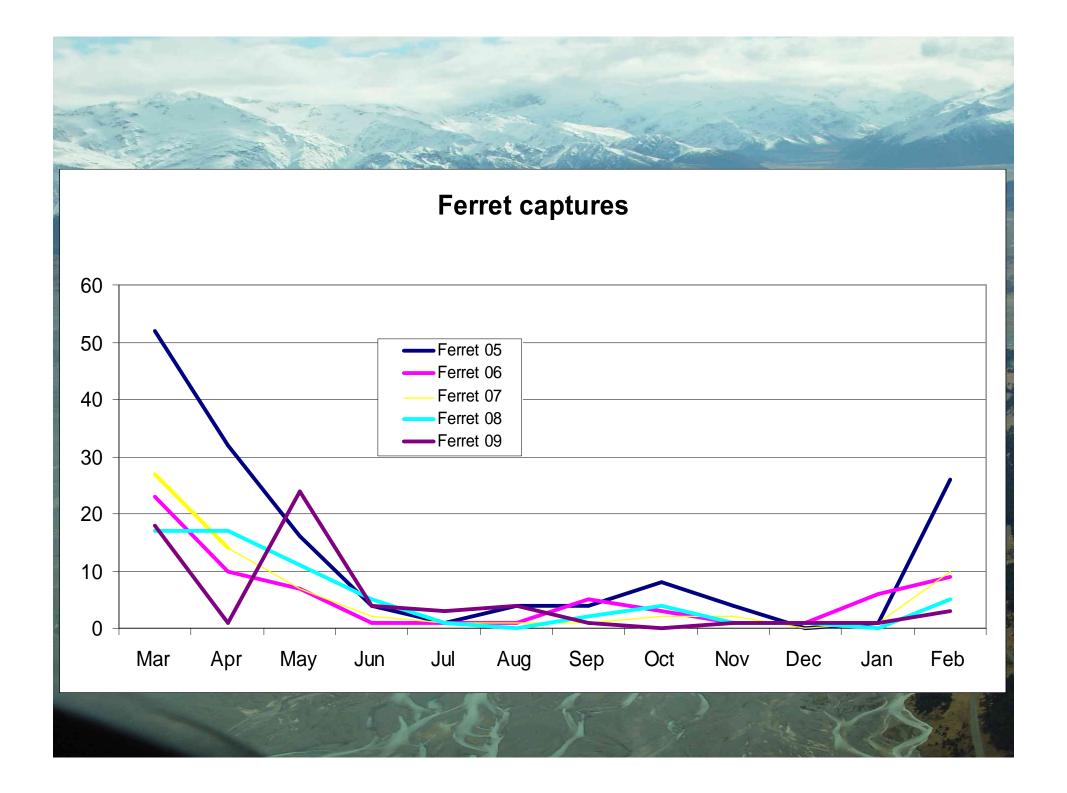
	Total 2010	Total since Mar 2005			
Rat	2	16			
Weasel	1	107			
Possum	29	361			
Cat	160	669			
Ferret	43	413			
Hedgehog	532	3388			
Stoat	332	1799			
GPS Cat	0	2			
Total	1099	6755			

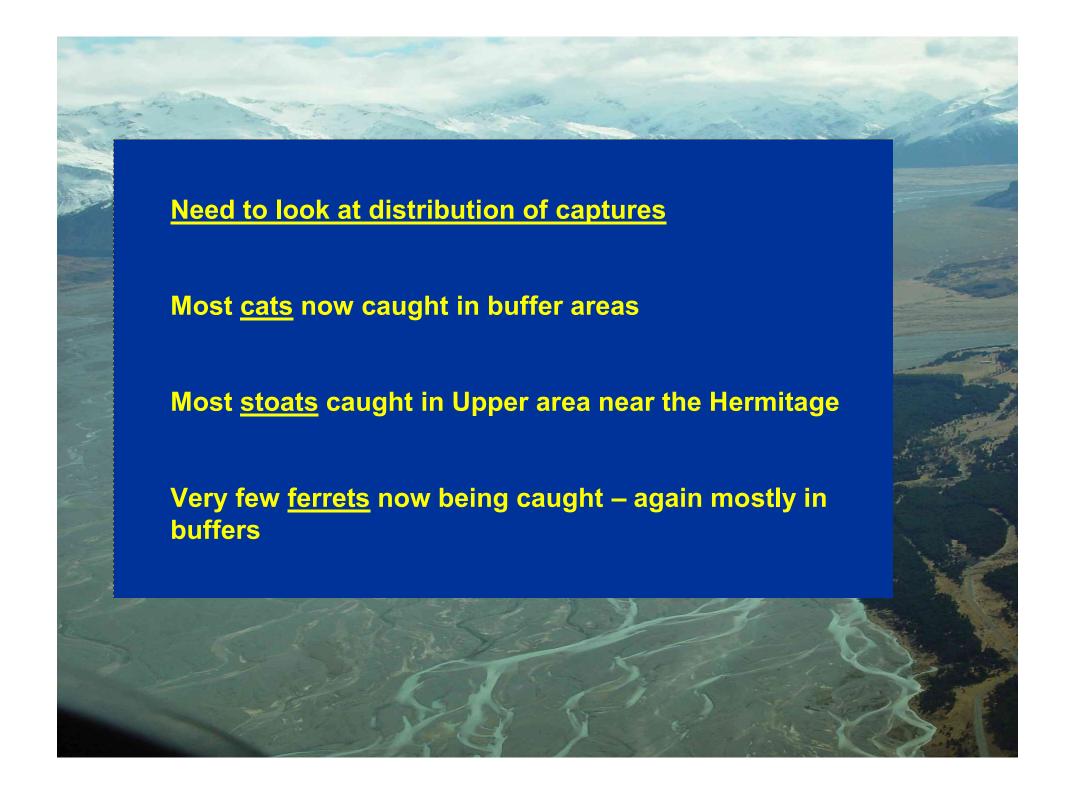
Total captures to date (hedgehogs not shown)













Over 6 seasons – first year no predator control

Comparative data from the Cass for last two seasons

Hatching success %

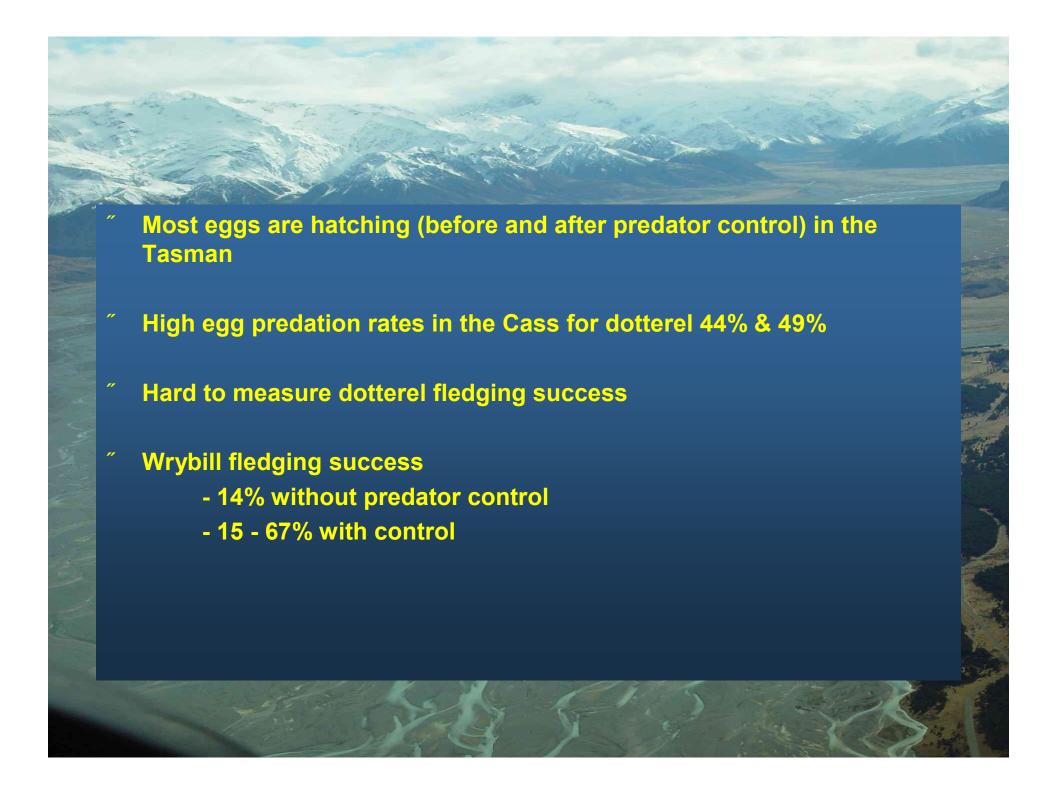
Fledging success %

n/a

n/a

Banded dotterel (n = 172) 71-97 Cass 2008 and 2009 (n = 46) 21-43

Wrybill (n = 126) 73-100 14-67 Cass 2008 and 2009 (n = 40) 79-80 14-50



Tasman River survey data

				No. of Concession, Name of Street, or other Publisher, Name of Street, Name of Street, or other Publisher, Name of Street, Name of					- 32
Species	1992	1993	1994	2004	2005	2006	2007	2008	2009
Banded dotterel	599	572	523	837	569	778	858	847	743
Wrybill	151	128	120	86	99	32	111	143	156
Black-fronted tern	110	175	79	217	121	47	92	101	143
Black-billed gull	25	8	7	32	7	10	37	5	6
Black stilt	5	1	1	2	8	9	15	15	32
Hybrid stilt	9	1	1	8	9	4	10	4	1
Pied stilt	21	12	18	17	54	12	9	2	-
SIPO	76	59	46	100	61	86	69	64	52
Caspian tern	2	2	2	0	3	0	0	0	3
Black-backed gull	537	608	609	258	151	95	154	127	243
	1535	1566	1406	1557	1082	1073	1355	1308	1379
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