

# DOC managed sites

Eastern BOP

# Matata Lagoon - 6.17 km Vehicle tracks



**Total of 6.17kms of tracks**

Track length x 2m width

= 6,171m x 2m

**12,342 m2 Earth disturbance**

Track length x edge effect

= 6171m x 6m

**37,076 m2 Vegetation Disturbance**

# Thornton Lagoon - 6.71 km Vehicle tracks



**Total of 6.71kms of tracks**

Track length x 2m width

= 6,709m x 2m

**13,418 m<sup>2</sup> Earth disturbance**

Track length x edge effect

= 6709 x 6m

**40,254 m<sup>2</sup> Vegetation Disturbance**

# Ōpihi - 1.2km tracks



**Total of 1.24kms of tracks**

Track length x 2m width

= 1241m x 2m

**2,482 m<sup>2</sup> Earth disturbance**

Track length x edge effect

= 1241 x 6m

**7446 m<sup>2</sup> Vegetation Disturbance**

# Tirohonga Dunes - 0.5 kms



**Total of 0.5 kms of tracks**

Track length x 2m width

= 500m x 2m

**1,000 m<sup>2</sup> Earth disturbance**

Track length x edge effect

= 1000 x 6m

**6,000m<sup>2</sup> Vegetation Disturbance**

# Loss of dunes - overview

	Matata	Thornton Lagoon	Opihi	Tirohonga dunes	Total
Vehicle tracks	6.17km	6.71 km	1.24 km	0.5 kms	14.62km
Earth disturbance	12,342m <sup>2</sup>	13,418m <sup>2</sup>	2,482m <sup>2</sup>	1,000 m <sup>2</sup>	29,242m <sup>2</sup>
Vegetation disturbance	37,076m <sup>2</sup>	40,254m <sup>2</sup>	7,446m <sup>2</sup>	6,000m <sup>2</sup>	90,776m <sup>2</sup>

These likely underestimate the loss, as are based on old aerial images , and smaller tracks not included.  
Estimated plus 20% to above figures.



# Significance

I would normally link the importance of the ecosystem, threatened flora and fauna, and significance of coastal dunes systems to the local iwi..... But stopped as this presentation is for DOC "Te Papa Atawhai" The Government agency charged with conserving New Zealand's natural and historic heritage.

Will leave you with some conservative figures

14 kms of vehicles along dunes

2.9 ha of earth disturbance

9 ha of vegetation disturbance