Peri-urban Deer Control Plan Maps



Peri-Urban Deer Control Plan Maps

Accompanies the Peri-urban Deer Control Plan 2021-26

Development of Priority Areas Maps

To develop the priority area maps, the Peri-urban partnership group members from Local Government Areas (LGAs) and community liaised with their local environmental and Landcare groups to collate information on local biodiversity values, known deer threats and locations of local deer control and management efforts. This information was mapped and overlaid with other spatial datasets of deer distribution, biodiversity, other threats and values, and where there were multiple overlapping mapped areas of values and threats, these were identified as key focus areas for prioritisation of control works, fencing and monitoring.

Public land managers undertook similar assessments of their own assets, focussing on biodiversity and water values, the current levels of deer impact and threat, and other organisational values and management capabilities and approaches.

The analysis undertaken utilised mapping from the Strategic Management Prospects (SMP) Version 2. Version 3 has now been released and utilised in relevant maps shown below.

As new information becomes available, priority site maps will be updated. The Partnership Group will undertake a review of priority sites at least once per year, to update locations and reflect on changes in their suitability. Actions for improvement in mapping have been identified within the Peri-urban Deer Control Plan, and the overarching Strategy, such as the collection of deer-vehicle collision data. Other datasets will also be added to, in the knowledge that more accurate mapping will improve the ability to identify priority areas in addition to those mapped in SMP.

Priority maps, including the underlying spatial layers of current and planned works, can be used to initiate discussion between partnership group members. The mapping:

- allows for gap analysis to be undertaken, such as where risks have been identified, but no works are planned or underway,
- provides opportunities for improved collaboration across LGAs and between private landholders and public land agencies, as adjoining projects are more easily identified, allowing for complementary projects to be combined for greater efficiency and cost-effectiveness.

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Figure 1 and Figure 2 below show how the different maps and spatial tools were used in Nillumbik Shire LGA to identify priority areas.



Mapping Nillumbik Shire Council priority areas



Figure 1: Mapping slices used to identity Nillumbik Shire LGA priority areas

Nillumbik Shire Council priority areas



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Figure 2: Nillumbik Shire LGA priority areas for deer control



Yarra Ranges Council priority areas



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Figure 3: Yarra Ranges LGA priority areas for deer control

Cardinia Shire Council priority areas

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Figure 4: Cardinia LGA priority areas for deer control

Knox City Council priority areas

Knox Priority Area

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Figure 5: Knox City Council priority areas for deer control

23 December 2021 Map Scale 1:8,000

Kilometres 0 0.05 0.1

Manningham City Council priority areas

Manningham Priority Areas

Figure 6: Manningham City Council priority areas for deer control

City of Whittlesea Council priority areas

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Figure 7: City of Whittlesea area priority areas for deer control

Peri Urban Project Area

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Figure 8: Peri-urban plan area

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SMP Benefit-Cost of Deer control across Victoria

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Figure 9 indicates the top 5 and 20 per cent sites across Victoria that provide high cost benefits to a range of species through deer control

22 October 2021 Map Scale 1:2,652,576

> Kilometres 0 1020 40

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SMP Benefit-Cost of Deer Control across the Peri-Urban area

Strategic Management Prospects (SMP 3.0): Benefit - Cost Deer Control - Top 5%, 20% & 50%

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Figure 10: Strategic Management Prospects map of Benefit-Cost of Deer control

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SMP Benefit of Deer control across the peri-urban area

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Figure 11: SMP - Deer Control Benefit

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Land Use by Type across the Peri-Urban area

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Figure 12: Land use across the peri-urban area

Figure 13: Land use classified into high, medium or low determine sites of importance.

Aboriginal Cultural Heritage values across the Peri-Urban area

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Figure 14: Aboriginal cultural heritage map

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Deer Species Distribution (Source: ARI)

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Figure 15: Deer species distribution map

Deer-Vehicle Collisions across the Peri-Urban area

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Figure 16: Deer-vehicle collision risk and road collisions map

SMP Benefit-Cost, Biodiversity Response Planning (BRP) deer projects and Camera Monitoring across the Peri-Urban area

Peri Urban Deer Project with SMP (3.0) Deer Control - Benefit (Top 5 and 20%) | BRP1 Deer Control Activity 19/20

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Figure 17: Peri-urban SMP and BRP 2019–20 map cameras and transects

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Melbourne Water Riparian and Water Catchment Values across the Peri-Urban area

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Figure 18: Water priority reserves

Parks Victoria priority reserves across the Peri-Urban area

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Figure 19: Parks Victoria deer management priorities

9 November 2021 Map Scale 1:482,673

Kilometres 0 3.75 7.5

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Recent deer control and management activities across the Peri-Urban area

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Figure 20: Deer control activity

Deer Monitoring

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Figure 21: Deer monitoring

22 November 2021 Map Scale 1:467,380

> Kilometres 0 3.5 7

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GIS additional layers (LGA and land manager)

Additional agricultural land use details for Manningham City LGA

Figure 22: Land use in Manningham City LGA

2.5

Stock locations in Manningham City LGA

Stock Locations - 2004

Source: DELWP CSDL and Manningham City Council - Stock locations from 'Green Wedge Land Classification Study 2004'

Figure 23: Locations of stock in Manningham City LGA

Location of threatened and locally significant flora and fauna across the Peri-Urban area

Figure 24: Threatened species and sites identified with species under threat from deer trampling in aquatic areas

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Figure 25: Sites of Ecological Vegetation Classes (EVCs) with distinct damage from deer in Kinglake National Park

