

Green Card Training

Program

- Welcome
- 10 min DVD highlighting the threat of the introduced plant disease, Phytophthora Dieback, to the native plant communities of south-west WA
- 90 min presentation on the impact, spread and management of Phytophthora Dieback in WA
- Practical hygiene demonstration

Green Card Training

Two Levels of Green Card Accreditation

Level 1: Green Card "Inducted"
Multi-choice Quiz
Sign the "Green Card" Code of Conduct
Complete Observation Checklist
Provide Course Feedback

Level 2: Green Card "Accredited" Multi-choice Quiz Sign the "Green Card" Code of Conduct Complete Observation Checklist Provide Course Feedback Job Safety Analysis
Follow Up Report (due 3 months after training)

Green Card Training

Green Card Program Goals

"to establish a nationally recognised training qualification for biosecurity and invasive species management programs within native plant ecosystems across Australia"

"to set a new standard for Phytophthora Dieback hygiene management within high priority native plant ecosystems within the south-west of WA"

Green Card Training

Green Card Participant Training Outcomes

Proven skills to plan & implement basic hygiene protocols into any activity with the potential to spread Phytophthora Dieback

A qualification for a nationally recognised unit of competency 'Inspect and clean machinery for plant, animal and soil material (AKCBIO2014).' Contributes to a Cert II or III in Biosecurity or Conservation & Land Management

Allows the qualified candidate to enter lands managed by the DEC or other land managers that require Green Card Accreditation as a condition of entry

Global Biodiversity Hotspots =

Biodiversity in South West WA

The south west of WA Biodiversity Hotspot

One of the top 34 biodiversity hotspots in the world as recognised by Conservation International

High levels of natural diversity, particularly for plants, coupled with high levels of threat to that diversity

One of only five Mediterranean-type ecosystems to be listed as globally significant

A Centre of Plant Diversity as defined by WWF and the International Union for Conservation of Nature and Natural Resources (IUCN)

Containing five of the 15 national biodiversity hotspots nominated by the Australian Government

Biosecurity & Invasive Species

Biodiversity & Biosecurity in WA Native Ecosystems

Key threats to south-west biodiversity include introduced or invasive organisms such as:

pathogens pests weeds







Biosecurity & Invasive Species

Vectors for the Spread of Weeds, Pests or Diseases

Key threats to south-west biodiversity include introduced or invasive organisms such as: pathogens pests weeds

High risk vectors include: contaminated vehicles or machinery contaminated materials uncontrolled access or poor hygiene procedures



Phytophthora Dieback in WA

tophthora cinnamomi & other Phytophthora spec

Over 20 different Phytophthora species recorded in WA

At least 16 have been associated with different plant diseases and tree declines within native plant ecosystems

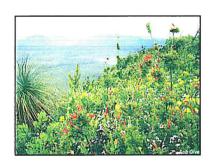
Phytophthora cinnamomi is the most common, widespread & most devastating Phytophthora species in native plant communities within the south-west of WA

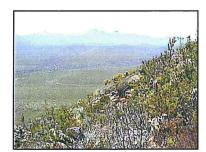
DEC Policy Statement No 3 recognizes the emerging threat of other *Phytophthora* species & applies the precautionary principle to minimize their accidental spread.











Impact of P. cinnamomi in WA

Biodiversity Impacts
Disease process leads to a significant loss in diversity, structure and biomass within vulnerable native plant ecosystems
Disease impact flows through the entire ecosystem affecting native fauna & other ecosystem processes

Threatening process in many Declared Rare plants, Priority plant species or Threatened Ecological Communities

Impact of P. cinnamomi in WA

Social Impacts
Indigenous culture & values
Restortcomes affect recreational bushland users:
4VD, Irol biles, horse rides, mountain bise & bush walkers
Disease common in residential home gardens &
bushland on private property

Economic Impacts

PROFILE ITIPACES
Forestry, mining, extractive industries, horticulture apiary, plant nurseries, tourism
Direct measurable cost exceeding \$160 million per year to the flational Economy
Full impact estimated to exceed \$500 million per year in VA





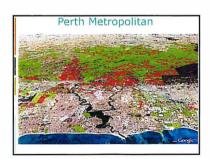


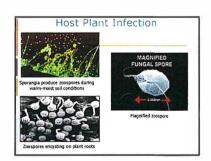














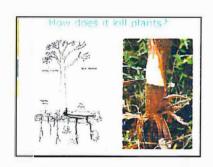


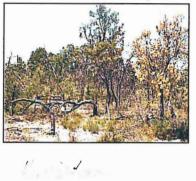


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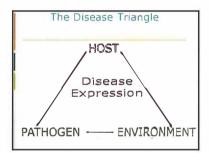


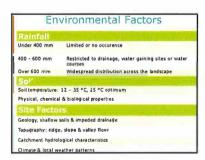






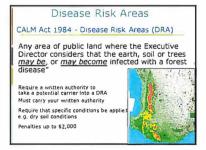








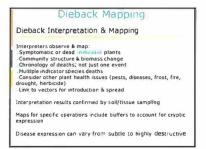








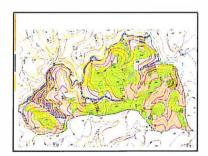
Phytophthora cinnamomi occurrence map Phytophthora cinnamomi occurrence map Phytophthora cinnamomi management plans Hygiene management plans: HHP Environmental standards checklist As a management plans: HHP Environmental standards checklist As a management plans: HHP Environmental standards checklist in the standard of the standard of the site implement appropriate access & hygiene procedures plan & schedule the operation to reduce risk factors

























Assess & Reduce the Risk Assess the Risks of the Operation Plan activities around catchment & hydrological features Manage any altered drainage Position roads or tracks low in the landscape profile Schedule high risk activities for dry soil conditions Quarantine sensitive areas following large rainfall events or flooding Use dieback free materialisin protectable areas including imported soil, gravel or plant stock Stockgile top soil on site Schedule time & resources for undertaking hygiene procedures during the operation Ensure staff & contractor a wareness or provide training Monitor compliance

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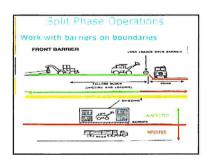






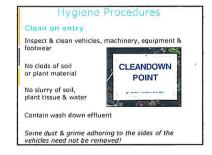












Vehicle Cleaning

How clean does it need to be?

DEC Checklist for vehicle and machinery inspection

Remove soil from tyres, mud flaps, guards, spare wheel & undercarriage

Provide & maintain adequate wash down facilities

Record & monitor wash down usage

Where no washdown exists or is faulty use brushes & brooms to clean the vehicle

Report immediately any faults or hazards

Clean Down Points

Vehicles & machines can enter uninfested areas without spreading Phytophthora Dieback



Ensure:

Separate the vehicle or machine from the effluent
Manage or contain drainage from wash down facility
Correctly dispose of any soil or organic material collected
during cleaning

Record & monitor vehicle & machinery washdown

Clean Down Points

Cleaning Options

- Wash down: high pressure water system, fire unit or pressurized wash down spray unit
 Compressed air
 Vacuuming
 Physical removal with brush, scaper & dustpan

Establishing a wash down area
Selection location
Control effluent, slash and drainage
Appropriately dispose of waste & contaminants
resulting from cleaning
Keep records
Ensure hygiene equipment & facilities are maintained

Clean Down Points Safety First Safety procedures for inspecting and cleaning Covers and Guards

Clean Down Points Dispose of Waste Appropriately

Bag all organic & plant material

Destroy collected material on site or send to contained refuse site

Contain effluent & run-off from wash down area

Wash down pad or ramps are cleaning









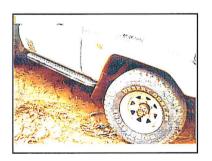


























Assessment & Hygiene Practical

