



Goals of Integrated Vegetation Management (IVM)

- Provide access and maintain the integrity of the transmission system against outages from vegetation
- Public safety reduce fire risk
- Respect traditional land uses and practices
- Encourage a stable low growing plant community
- Minimize environmental effects of IVM activities

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Primary methods of IVM

- Selective control
 - Target tall growing vegetation
- Compatible use
 - Agriculture, recreational
- No clearing required
 - No removal of vegetation that does not impede access or "limits of approach"
- Altering existing vegetation
 - Pruning and trimming

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IVM planning

- Annual patrol
 - Visually assess tree height, density and proximity to limits of approach
 - Imminent threats (dead, dying, leaning trees)
 - Width of ROW (narrowing or encroachments)
 - Terrair
 - Environmental conditions (flooding, nests)
 - Relative priority of work
 - Efficacy of treatments

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Criteria for treatment selection

- Target species
 - height, density
- Treatment timing
- Site accessibility
- Design criteria and limits of approach
- Resource availability
 - Staff and budget



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Criteria for treatment selection

Access and terrain



Terrain – steep slopes, rocky terrain increases safety concerns with machinery



Access – wet areas, remote locations requiring helicopter, seasonal constraints

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Criteria for treatment selection



Setbacks



• 30m waterbodies

 15m sensitive plants (rare plants gathering areas)

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Mechanical treatment methods Feller buncher Mulcher Shear blade





Mechanical		
	Mechanical	Chemical
Cycle	Typically occurs in the winter to reduce environmental impact, can occur in same months depending on region Mechanical maintenance cycle is continuous, will always be a need to remove vegetation on ROW	Typically occurs between June and October Cycle period increases with each application Over time it allows for less and less chemical and more selective treatments
Safety	Increased risk of spills or releases of hydrocarbons Safety to public increases during winter months on trails and access roads with machinery Increased risk of injury to workers	Lesser risk for spills or releases of hydrocarbons Risk of concentrated pesticide spill or exposure
Wildlife	Wildlife is displaced for longer period of time. Increased habitat loss for wildlife	Wildlife and grazing animals may be displaced on a short term basis
Vegetation & Traditional Use Plants	Continually cutting vegetation reasters re-sprouding of vegetation which increases the frequency of mantament required Increases the requency of mantament required Increased re-vegetation with none selective removal methods Decreased develops of POMV due to exclusional separation for regrowth Increased risk of invasive species spread due to less competition for Increased risk of invative species spread due to less competition for Increased risk of nutting and soil erosion	Greater diversity of vegetation species within ROW as undesirable dominate tree species is managed Chemical control targets fast growing tree taller struts, broadleaf plants but not grasses









Chemical		
	Mechanical	Chemical
Cycle	Typically occurs in the winter to reduce environmental impact, can occur in warmer month depending on region Mechanical maintenance cycle is continuous, will always be a need to remove vegetation on ROW.	Typically occurs between June and October Cycle period increases with each application Over time it allows for less and less chemical and more selective treatments
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