Role of Indicators in Developing Appropriate Fire Regimes Neil Burrows, Bruce Ward and Alex Robinson CALM WA (fix and put backdrop slide)

TIP

For additional advice see Dale Carnegie Training® Presentation Guidelines.



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Introduction

Fire Management: Aims to protect biodiversity, people and property.

Appropriate fire regime: A practical regime of fire frequencies, seasons, intensity, scale and patchiness to achieve fire management aims.

Fire ecology: Is complex and knowledge is incomplete.

Biophysical indicators: Can be used to develop appropriate fire regimes

Indicators of Appropriate Fire Regimes in Jarrah Forests (map of jarrah forest & slide of forest before this slide)

- Climatic
- Historic
- Biotic



Involve your audience with a strong, relevant opening.

Climatic Indicators - Jarrah Forests

- Mediterranean type (rainfall/temp graphs**Perth Sydney after this)
- 140-160 dry fuel days annually
- Annual summer drought
- Up to 30 lightning-caused wildfires annually (lightning maps** after this)
- Region characterised as "fire prone"

Historic Indicators - Jarrah Forests

- Extensive, frequent use of fire by Nyungars
- Fires in spring/summer/autumn
- Mostly low intensity, occasionally high intensity
- Balga trees show 3-4 year fire graph**
- Riparian areas and low fuel he less frequently

TIP

Questions by the facilitator capture attention and interest and lead to involvement and interaction.

Biotic Indicators (*flora*) - Jarrah Forests

- Identify fire sensitive taxa & vital attributes
- Ratio resprouters:seeders = 75:25 (upland)
- Higher proportion of seeders in moist habitats
- Thicket-forming species deper for regeneration (photo me'

TIP

Support the opinions and experiences of others with positive comments and positive attitude.

Biotic Indicators (*flora*) - Jarrah Forests

- Fire has little long term effect on species composition (graph **)
- Juvenile period <4 yrs (upland unders' rey) graph**
- Juvenile period <8 yrs (ripariar
- Litter fuel = 7-8 t/ha by 6

TIP

Recognize that diversity in a group is positive, adding strength and substance.

Biotic indicators (*fauna*) -Jarrah Forests

- Severity of fire impact proportional to fire size and intensity(graph woylie, phasco **)
- Some mammals prefer dense, mature vegetation, others prefer recently burnt (graph**)
- Infrequent (20-30 yrs) dry fires to regenerate habitat
- Mosaic of different times and seasons of fire optimises invertebrate diversity.

Using Indicators to Set Jarrah Forest Fire Regime (table **)

TIP

Close your presentation to make a favorable, lasting impression

An Appropriate Fire Regime For Jarrah (diagram ex landscope)