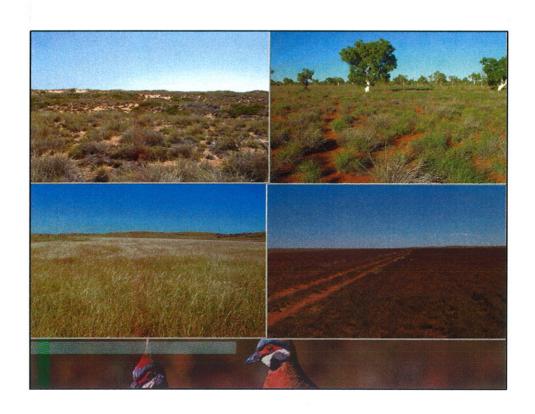


# In the Pilbara....

- 2.8% of bioregion dominated by Buffel.
- DAF recorded Buffel from 217 of 763 inventory sites. At another 28 Birdwood or perennial Buffel was present.
- In Pilbara Biological Survey Cenchrus recorded from 143 of 412 sites—140 sites with Buffel and 28 sites with Birdwood.
- Buffel is replacing tussock grasses such as Chryspogon, Eragrostis and saltbush (Atriplex spp.) particularly on alluvial flats. The process of replacement is promoted by overgrazing – sheep!
- Buffel also replacing soft spinifex (*Triodia pungens/epactia*) on alluvial and particularly calcareous soils/pediments. This replacement is greatly enhanced by burning.

### Threatened habitats include....

- Alluvial floodplains and flats associated with any drainage systems.
- Coastal plain where historical overgrazing, principally by sheep, has promoted significant soil deflation and removed most native grasses.
- Calcareous soils and pediments especially those associated with coastal landforms, calcretes and paleodrainage channels.
- · Sandplains, swales and dunes, especially in the desert bioregions.
- Mulga and Acacia woodlands on light soils especially where spinifex is the understorey and fires are too frequent.



# What is being done....

- DAF and pastoralists still actively encouraging and spreading.
   "Buffel is the savour of the Pilbara"
- Limited action by DEC, significant resistance from LCDC, PGA, MLA & within government, even through NRM process.
- DEC attempts control on Island protected area estate with limited success. Not attempt at control on mainland.
- No requirement to control through EIA process & consequently regulatory framework poor to limit spread.
- Limited research into impacts on biodiversity, methods on control/eradication and vectors of spread.





# The Future....

- Some growing discontent amongst pastoralists with Buffel because of poor forage quality and resilience to drought in comparison to soft spinifex.
- DEC concerned with introduction of new 'cultivars' capable of growing in heavy soils or on rocky substrates (drought resistance?).
- Continued spread through sandy deserts traditional lands.
- Impact of spread of Buffel through South West Botanical Province

   an International Biodiversity Hotspot.

# The Future.... Increase opportunity for spread as a consequence of climate change – reinforcing feedback loop. Warmer wet season with more rainfall Increased Buffel growth, reproduction & biomass U Greater potential & more frequency fires Significant increase in opportunity for Buffel spread

