



Selecting the right herbicide for nursery and landscape use

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Roundup

Ronstar



The End

Actually, there are economic and environmental reasons to evaluate your choice of herbicides





Economics

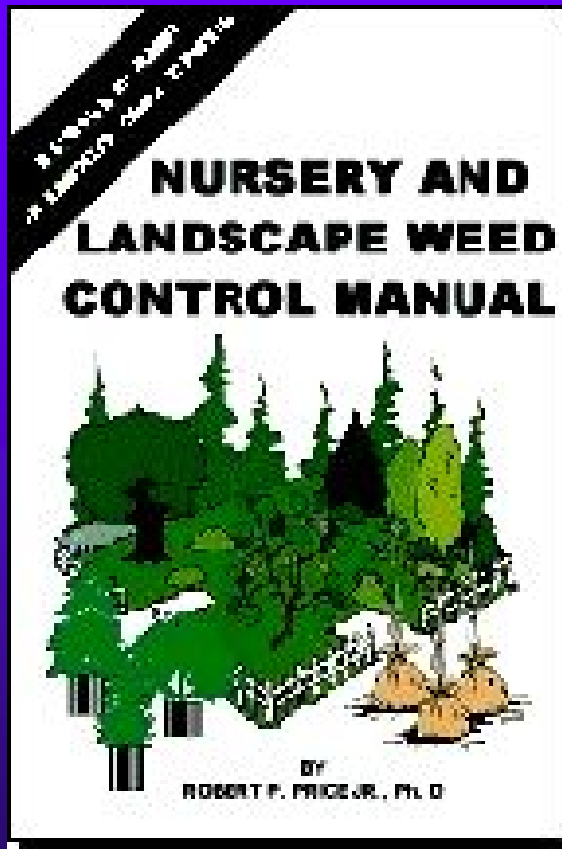
- ◆ Cost of product/unit area—i.e \$100/acre
- ◆ Duration of effective weed control (how long do you need weed control?)
- ◆ Are there formulation options with differing costs (granular vs wp)
- ◆ Weed spectrum controlled
- ◆ Consider a tank mix to pick up uncontrolled species rather than increasing the rate of one herbicide to control difficult species
- ◆ Incorporation flexibility
- ◆ Will an older, out-of-patent material work as well?



Selectivity & Safety

- ◆ Risk of obvious phytotoxicity
- ◆ Risk of hidden phytotoxicity (i.e. dwarfing, slowing of growth, poor rooting of stolons)
- ◆ Risk of drift injury to surrounding plants (translocated vs. contact post-emergent materials)
- ◆ Risk of injury due to adverse weather (i.e. leaching of positionally selective herbicides)

Use References to compare weed spectrum controlled and selectivity on ornamental species:



OR:

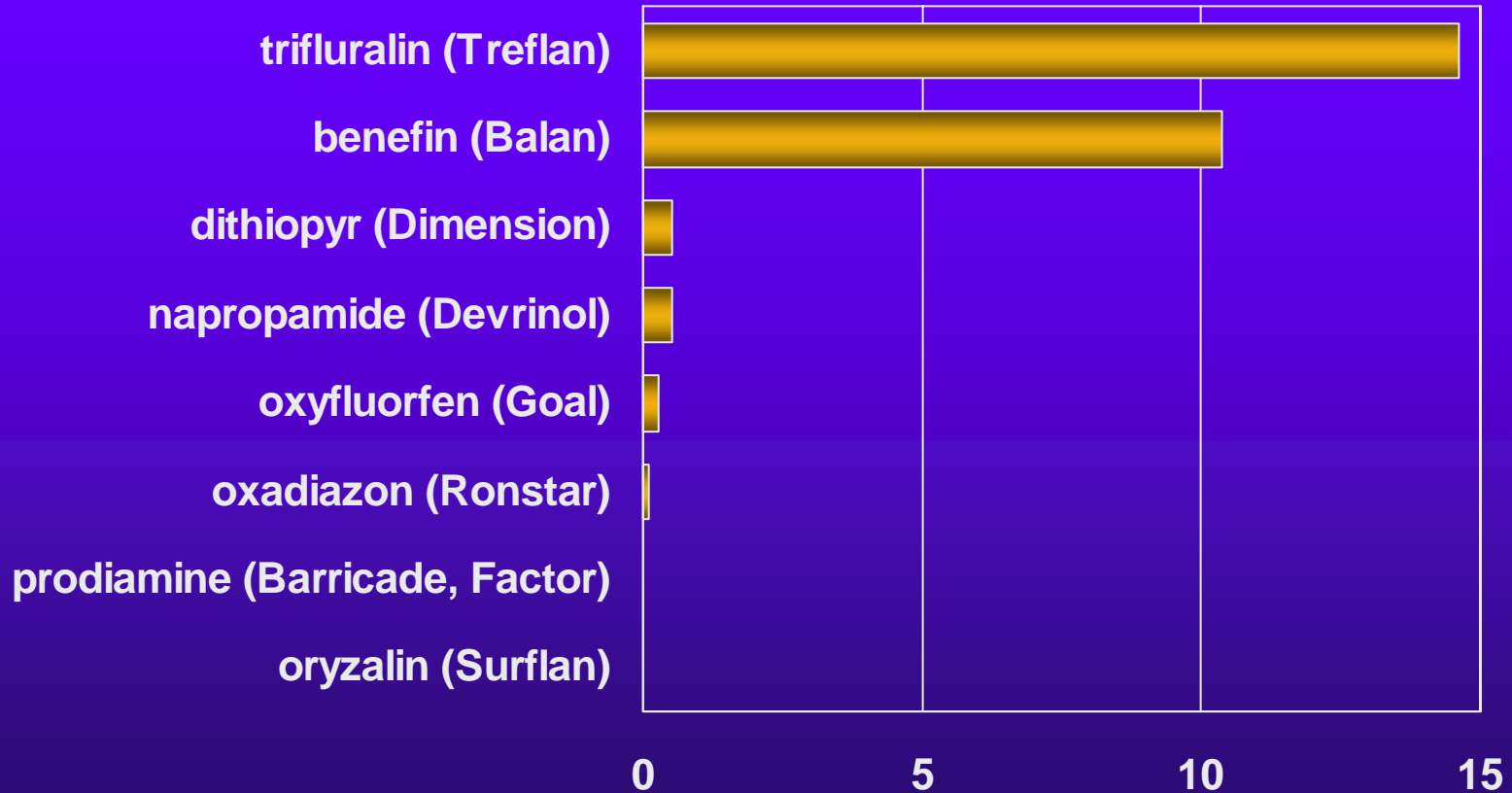
**Turf and Ornamental
Reference for Plant
Protection Products: C&P
press**




Environmental Savings

- ◆ Consider the long term cost of the herbicide as it relates to environmental problems:
- ◆ Leaching, runoff, non-point source pollution recycling of water
- ◆ Volatilization, photodegradation
- ◆ Pre-emergence vs. repeated post-emergence
- ◆ Resistance and herbicide rotation

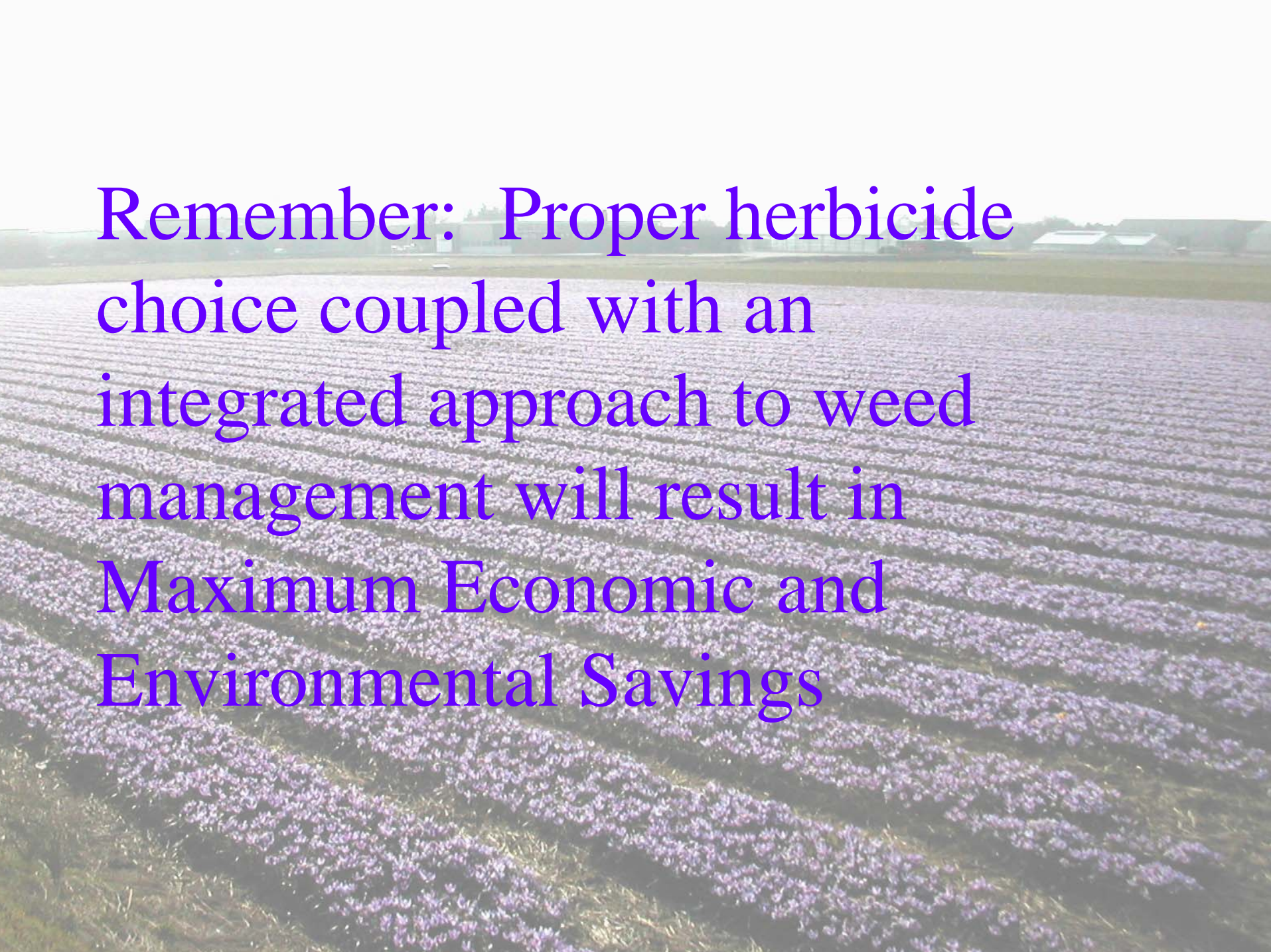
Volatilization of Common Landscape Herbicides (from Robert Stamps, Univ. Fla)





Remember that Herbicides are only one tool in your toolbox

- ◆ Mulches
- ◆ Competition
- ◆ Proper plant choice and density
- ◆ Prevention
- ◆ Solarization
- ◆ Steam sterilization of nursery soils

A photograph of a vast field of purple flowers, likely lavender, stretching towards the horizon. In the background, several farm buildings and a white fence are visible under a bright, slightly hazy sky. The text is overlaid on the left side of the image in a purple serif font.

Remember: Proper herbicide
choice coupled with an
integrated approach to weed
management will result in
Maximum Economic and
Environmental Savings