#### Weed Management in Livestock Pastures

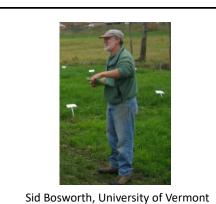
Sid Bosworth, University of Vermont

#### May 15, 2012

http://www.extension.org/organic\_production







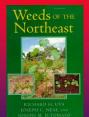


- Weed Identification
- Understanding your weeds
- Prevention Management
- Control Strategies

# Weed Management

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- Control Strategies

## Weeds of the Northeast



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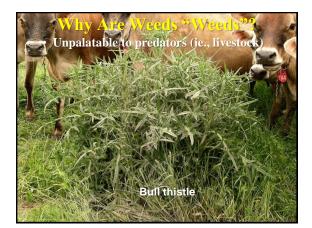


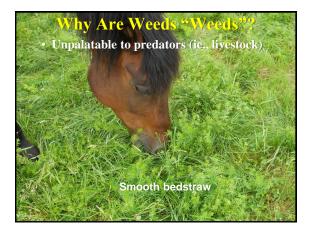






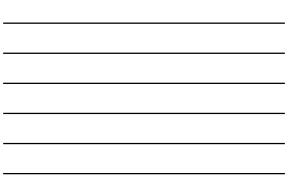




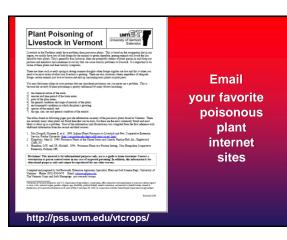


















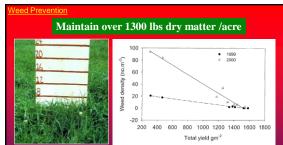
forage species.*		
Weed	% Crude protein	% IVDMD
Broadleaves		
Henbit (Lamium amplexicaule)	20.1-16.2	78-75
Virginia pepperweed (Lepidium virginicum)	31.9-17.1	86-63
Curly dock (Rumex crispus)	29.9-16.1	73-51
Redroot pigweed (Amaranthus retroflexus)	23.9-10.6	73-64
Jimsonweed (Datura stramonium)	25.1-16.5	72-59
Grasses		c c
Cheat (Bromus secalinus)	23.4-13.8	81-61
Little barley (Hordeum pusillum)	23.6-13.8	82-62
Fall panicum (Panicum dichotomiflorum)	19.0-7.2	72-54
Yellow foxtail (Setaria lutescens)	17.5-14.3	73-57
Large crabgrass (Digitaria sanguinalis)	14.3-6.4	79-63
Forages		
Ladino clover 'Regal'	27.2-23.2	81-83
Tall fescue 'Kentucky 31'	22.1-12.5	78-67
Rye 'Wrens Abruzzi'	27.9-13.4	79-70



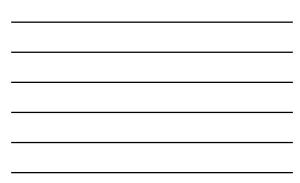
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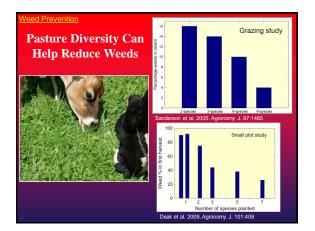






"Overall, the present results suggest that maintaining productive pasture communities over 150 gm<sup>-2</sup> of aboveground biomass and an evenly distributed array of forage species may effectively reduce weed invasion. Increasing forage species diversity could be a potentially useful cultural method for controlling weeds in pasture ecosystems." B.F. Tracy, M.A. Sanderson / Agriculture, Ecosystems and Environment 102 (2004) 175–183







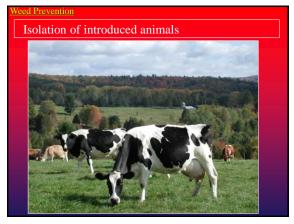




#### Need Prevention

Special attention to fence lines, field edges, rightsof-ways, railroads as source of new weeds





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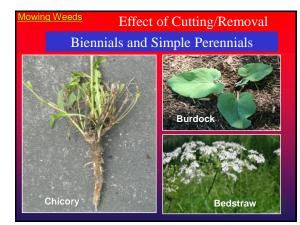




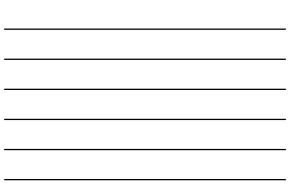




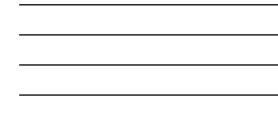






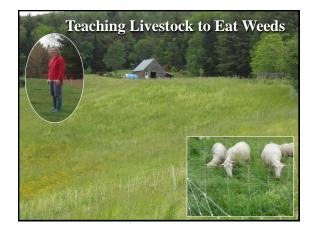




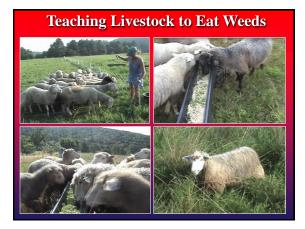


### Using Livestock to Control Weeds





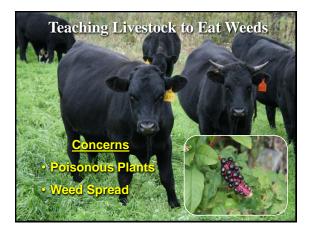












### **Multiple Tactics to Weed Management**



- "many little hammers
- Prevention
- Cultural Practices and Management
- Mechanical/Cultivation
- Biological Control

You must not fight too often with one enemy, or you will teach him all your tricks of war.

- Napoleon I (1769-1821) Napoleon Bonaparte.



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