

PHOTOGRAPH 1: EFFECT OF BIOSOLIDS APPLICATION ON TURFGRASS QUALITY

## Topdressing With Biosolids – Better Turf, No Weeds

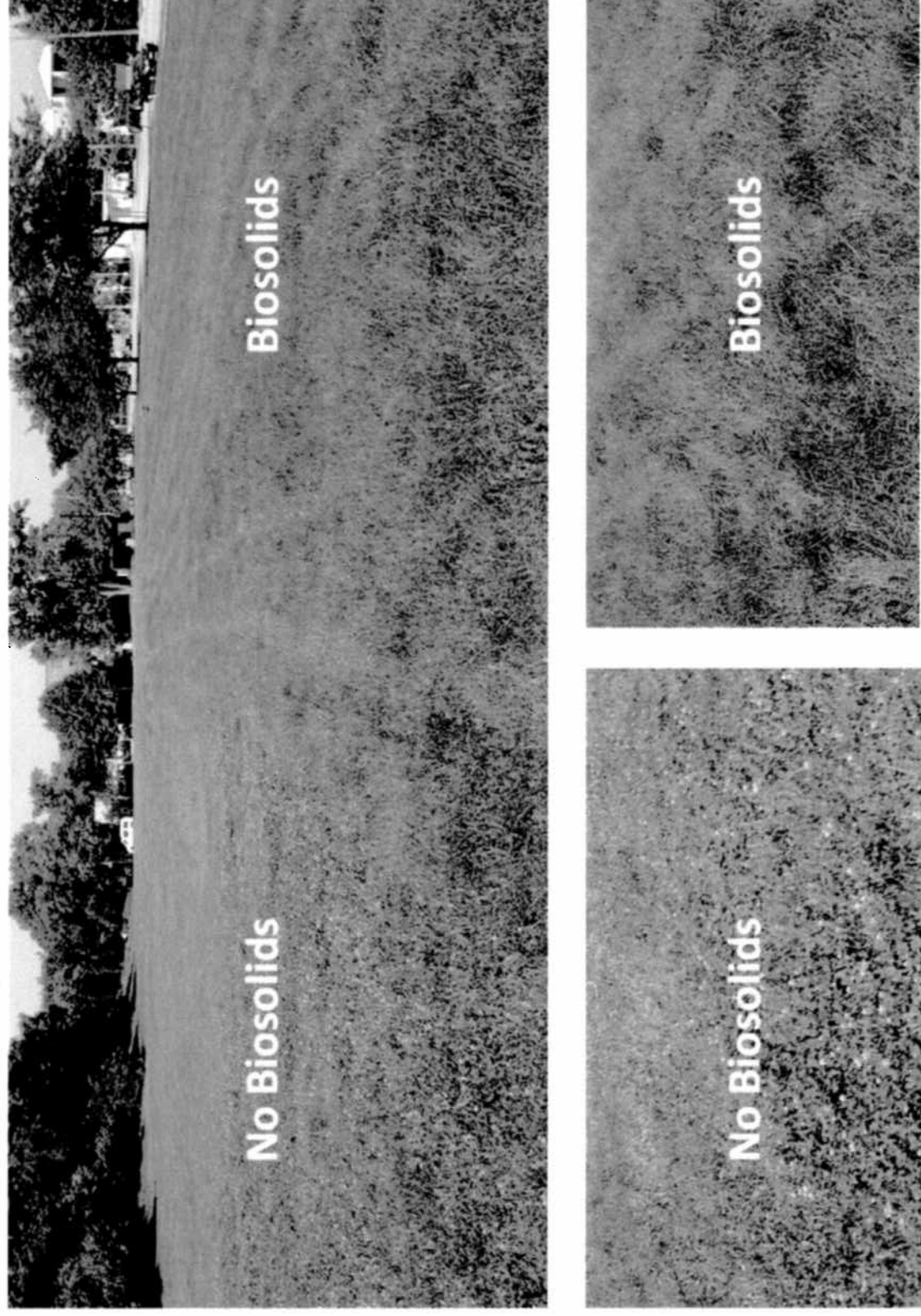


TABLE 1: LOCATION, SIZE, NUMBER OF YEARS TO ATTAIN MATURITY, AND  
AMOUNT OF ROUNDUP® NEEDED FOR SPOT WEEDING NATIVE  
PRAIRIE LANDSCAPE PARCELS

Location	Size of Parcel	Time to Maturity	Amount of Roundup®
	Acres	Years	fl. oz/parcel/yr
Stickney WRP	10	5	10 - 15
Mainstream Pumping Station	3.5	5	1 - 2
Lemont WRP	2.7	ND <sup>1</sup>	1 - 2
North Side WRP	4.2	ND	1 - 2
Egan WRP	10.5	5	2 - 3
Kirie WRP	3.3	5	1 - 2
Hanover Park WRP	7	5	6 - 12
Calumet WRP	21.7	ND	20 - 25

<sup>1</sup>ND = The number of years to attain maturity cannot be determined because these parcels are not being appropriately maintained due to lack of funds.

TABLE 2: MATERIAL SAFETY DATA FOR HERBICIDES RECOMMENDED FOR  
BROADLEAF WEED CONTROL IN TURFGRASS AND CONTROLLING  
INVASIVE WEED SPECIES IN NATIVE PRAIRIE LANDSCAPES

Basic Information	Herbicide	
	Trimec 992	Roundup <sup>®</sup>
Active Ingredient(s)	Mixture of dimethylamine salts of 2, 4-D, Dicamba, and MCPP. 2, 4-D = 2, 4-dichlorophenoxy-acetic acid (2, 4-D); Dicamba = 3, 6-dichloro-o-anisic acid; MCPP = R (+) 2 - (2 - methyl - 4-chlorophenoxy) propionic acid	Glyphosate [ <i>N</i> -(phosphono-methyl) glycine]. Roundup <sup>®</sup> is one of the most widely used herbicides, and over 100 million pounds of Roundup <sup>®</sup> are applied to U.S. farms and lawns every year.
Toxicity <sup>1</sup>	Toxicity class III - slightly toxic; LD <sub>50</sub> oral for rats: 2, 4-D = 639 mg/kg Dicamba = 2,629 mg/kg MCPP = 1,210 mg/kg	Toxicity class III - slightly toxic; Non-toxic to fish; Rodeo, a formulation of glyphosate, is permitted for use in aquatic situations. LD <sub>50</sub> oral for rats = 5,600 mg/kg
Type of use	Selective herbicide for broadleaf weed control	Non-selective herbicide to kill non-woody vegetation
Recommended dose	1.1 to 1.5 fl. oz/1000 sq. ft for broadleaf weed control in turf	2.0 to 6.0 fl. oz/1000 sq. ft to control invasive weeds in native prairies
Environmental Impact		
Half-life in soil	2, 4-D = 1.5 to 16 days; Dicamba = 1 to 6 weeks MCPP = 13 to 31 days	3 to 141 days (mean = 30 days)
Impact on groundwater	Low at recommended dose	Low at recommended dose

<sup>1</sup>LD<sub>50</sub> values for table salt = 3,320 mg/kg, caffeine = 200 mg/kg, and Vitamin A = 2,000 mg/kg.