

# **FIESTA**<sup>®</sup>

**TURF WEED KILLER**

Technical Bulletin



Fiesta® Turf Weed Killer is a selective, broadleaf weed killer that leaves turf healthy and weed-free using a specially formulated iron chelate solution that even controls moss and algae. Fiesta® works quickly, delivering visible same-day results, even in cool weather, and has no unpleasant odor during or after application. People and pets can re-enter the treated area once the spray is dry.

Suitable for broadcast application or spot treatment, Fiesta® is a versatile, patented product that will help lawns, golf courses, athletic fields, and municipal areas such as schools, parks, playgrounds, and cemeteries look their best. Approved by the EPA's Biopesticide Division, Fiesta® is ideal for use in areas where traffic by children, pets, and wildlife is likely and may be approved for use in areas that have regulated pesticide bans.

### **Active Ingredient:**

Iron HEDTA 26.52%, 4.43% actual iron

### **Mode of Action:**

Iron is bound to a chelating agent, hydroxyethylenediaminetriacetic acid (HEDTA), which keeps the iron soluble and readily available for plant uptake. Broadleaf weeds absorb chelated iron easily and in larger quantities than grass, which leads to cellular damage and ultimate plant

death in broadleaf weeds while the grass remains unharmed.

### **Available Sizes:**

2.5 gallon jugs, 30 gallon drums, 200 gallon totes

### **Kills/Controls:**

Algae, Black medic, broadleaf plantain, bull thistle, Canada thistle, common chickweed, creeping buttercup, dandelion, dovefoot geranium, English daisy, false dandelion, healall, lichens, liverworts, moss, narrow-leaved plantain, oxalis, Persian speedwell, shepherd's-purse, silverweed cinquefoil, slender speedwell, white clover

### **Use Sites:**

Lawns and turf (do not apply to bentgrass)

### **Directions for Use:**

Shake well before using. Mix one part Fiesta® with 24 parts water (5 oz. in 1 gallon of water).

Broadcast Treatment: Apply the mixed solution at a rate of 2.5-10 gallons/1000 ft<sup>2</sup>. Uniform coverage is important.

Spot Treatment: Thoroughly spray weeds to point of runoff using any standard hand-held or backpack sprayer. Use a coarse nozzle setting to reduce drift.

Repeat treatment in 3 to 4 weeks for best results.

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## **Works Quickly:**



Ohio State University (David Gardner) test plot before (left) and one day after a Fiesta<sup>®</sup> treatment (right). September, 2011. Photo: David Gardner.

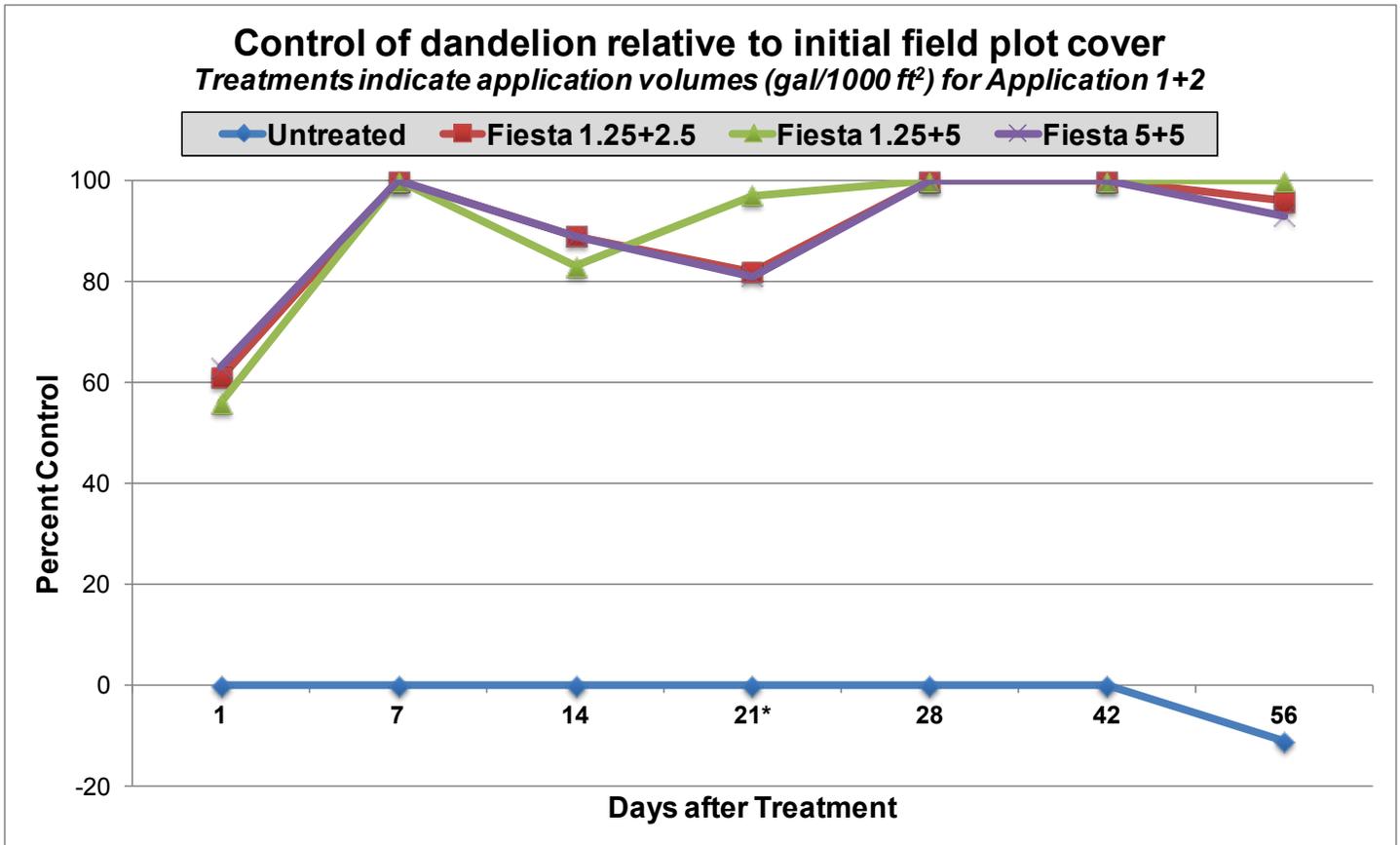
## **Toxicology:**

Toxicity categories are assigned by the EPA based on hazard(s) identified from studies and/or information on file with the Agency. Active ingredients are classified into Toxicity Category I, II, III or IV where Toxicity Category I indicates the highest toxicity and Toxicity Category IV indicates the lowest toxicity. The EPA has determined Iron HEDTA (Fiesta) to be in Toxicity Category IV.

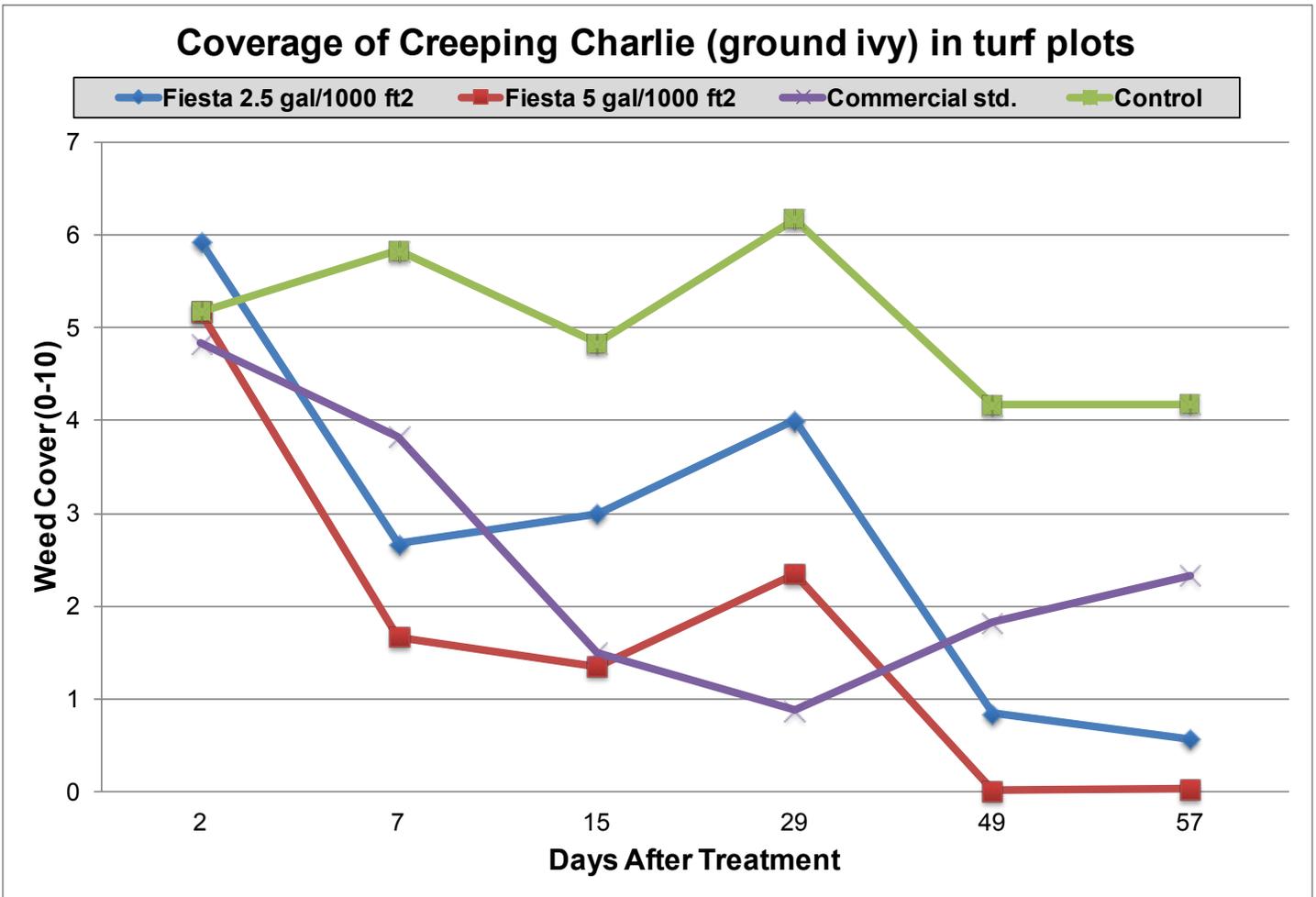
<b>Substance</b>	<b>Oral LD<sub>50</sub> Rat (mg/kg body weight)</b>
FeHEDTA	>5000
Vinegar	3310
Table Salt	3000
Borax	2400
Aspirin	1750
Lime Sulphur	820
Caffeine	192



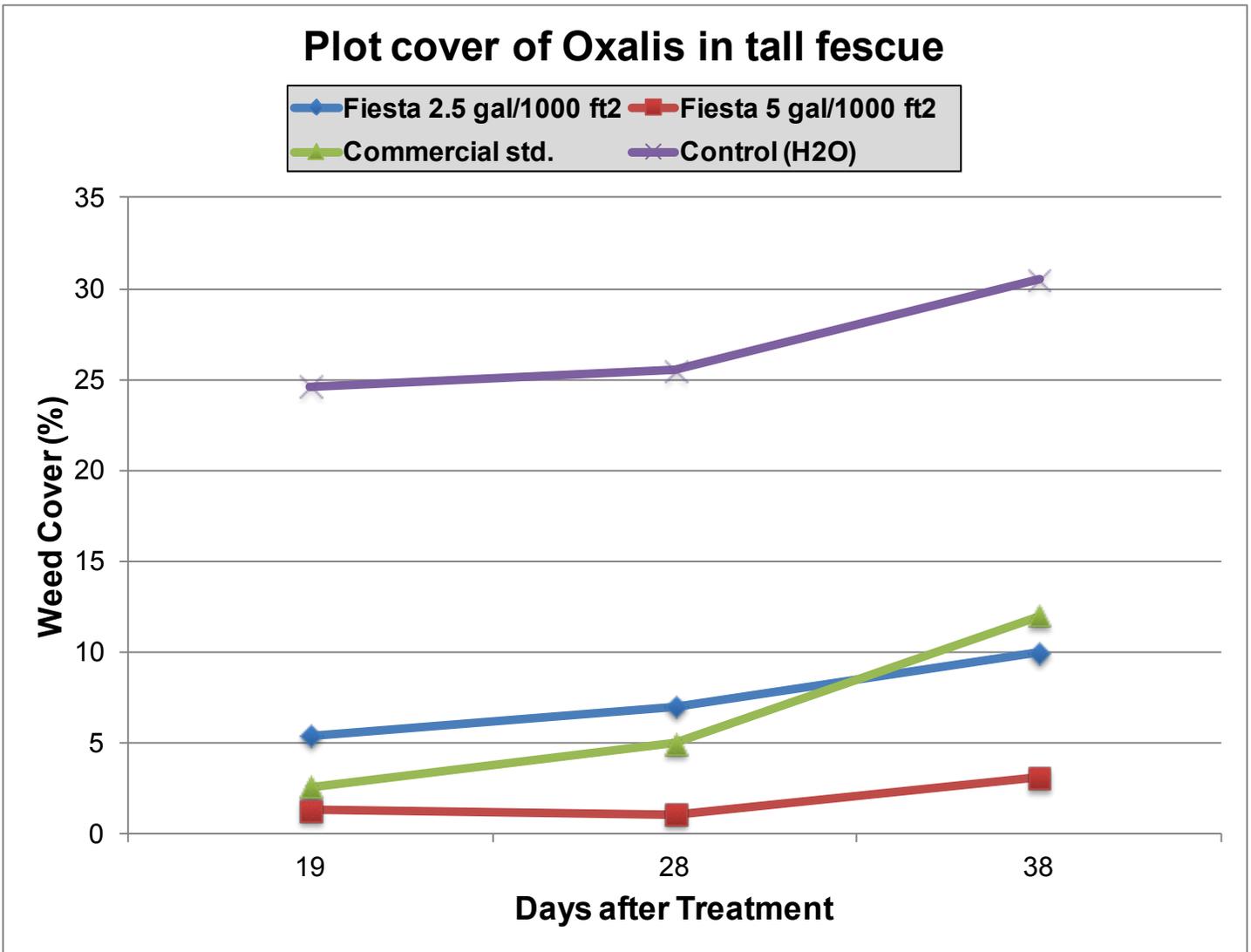
## Experimental Data:



Gardner, 2011, Ohio State University (Columbus, OH). All Fiesta® treatments proved extremely effective at controlling dandelions.



Carey and Charbonneau, 2011, Guelph Turfgrass Institute (Guelph, Ontario). Fiesta® controlled creeping Charlie better than the commercial standard, Par III (mecoprop, 2,4-D, and dicamba).



Davenport, 2011, PAT2H Consulting (Rydal, GA). Fiesta® controlled *Oxalis* without damaging turf. The commercial standard, Celsius (dicamba, iodosulfuron-methyl-sodium and thien carbazon-methyl), severely damaged the turf by 5 weeks after treatment.