

Contents

1. Introduction	1
Types of weed damage, cost, history, methods of weed control, terminology	
2. Dissemination of plants	28
3. Plant physiology and herbicides	52
4. The soil and herbicides	64
5. Surface active agents	81
Detergents, wetting agents, emulsifiers, spreaders, stickers	
6. Formulations, chemical drift, calculations	92
7. Application equipment	104
8. Carboxylic-aromatic compounds	122
Phenony acids, phenyl acetic acids, benzoic acids, phthalic acid, phthalamic acid	
9. Aliphatic acids	151
TCA, propionic (dalapon)	
10. Substituted phenols	159
Para-chlorophenol, dinitros	
11. Heterocyclic nitrogen derivatives	166
Simazine, atrazine, maleic hydrazide, amino triazole	
12. Aliphatic organic nitrogen derivatives	175
Substituted ureas, carbamates, other amides	

vii	CONTENTS
13. Metal-organic and inorganic salts	192
14. Other organic herbicides Hydrocarbons, methyl bromide, carbon disulfide, cyanogen	208
15. Field crops grown in rows Corn, soybeans, soybeans, peanuts, cotton	226
16. Small grains and flax Wheat, oats, barley, rye, rice, flax	241
17. Small-seeded legumes	256
18. Vegetable crops	265
19. Fruit crops	277
20. Pastures and range	290
21. Brush and undesirable trees	303
22. Aquatic weed control	321
23. Soil sterilants	348
24. Lawn, turf, and other ornamentals	357
Appendix	369
Common and scientific names of weeds and tolerance to three herbicides	
Weights, measures, and other useful data	
Index	407