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Autore	Matthews G. A
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Altri autori (Persone)	BatemanRoy MillerPaul ThompsonSteve
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Soggetti	Pesticides - Application Spraying and dusting in agriculture Spraying equipment
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Pesticide Application Methods; Copyright; Contents; Preface to fourth edition; Acknowledgements; Conversion tables; Pesticide calculation; Units, abbreviations and symbols; Chapter 1 Chemical control in integrated pest management; Introduction; Pesticides; Integrated crop management; Area-wide integrated pest management; Resistance to pesticides; Fungicide resistance; Herbicide resistance; Timing of spray application; Economic thresholds; Application sites and placement; References; Chapter 2 Targets for pesticide deposition; Insect control; Control strategy; Type of pesticide Systemic chemicalsPest habitat; Behaviour of the pest; Using an attractant; Disease control; Weed control; Collection of droplets on targets; Spray coverage; What volume of spray liquid is required?; References; Chapter 3 Formulation of pesticides; Types of formulation; Formulations for application as sprays; Wettable powders (WP); Water-dispersible granules (WG); Suspension concentrates (SC); Emulsifiable

concentrates (EC); Invert emulsions; Encapsulated pesticides (CS); Ultra low-volume formulations; Fog formulations; Smokes; Dry formulations; Dust (DP); Granules; Tablet formulation (TB)
Dry baits Fumigants; Other formulations; Pressure packs; Banding materials; Paints/gels; Adjuvants; Choice of formulation; References;
Chapter 4 Spray droplets; Importance of droplet size in pest management; Movement of droplets; Effect of gravity; Effect of meteorological factors; Effect of evaporation; Droplet dispersal; Spray distribution; Determination of spray droplet size; Light scattering; Laser doppler droplet sampling; Pulsed laser; Other techniques; References;
Chapter 5 Hydraulic nozzles; Types of hydraulic nozzle; Production of droplets; Components of hydraulic nozzles; Nozzle tips
Intermittent operation of hydraulic nozzles Gaseous energy nozzle ('twin-fluid'); Kinetic energy nozzle; Checking the performance of hydraulic nozzles; Calibration of flow rate; Spray pattern; Nozzle erosion; References;
Chapter 6 Manually carried hydraulic sprayers; Sprayers with hydraulic pumps; Small hand-operated sprayers; Stirrup pump; Knapsack sprayers - lever operated; Motorised hydraulic knapsack sprayers; Compression sprayers; Hand sprayers; Shoulder-slung and knapsack compression sprayers; Electrically operated compression sprayers; Calibration of knapsack sprayers
Disposable container dispenser Peristaltic pump; References;
Chapter 7 Power-operated hydraulic sprayers; Tractor-mounted sprayers; Tank design; Pumps; Filtration; Pressure control; Spray booms; Calibration of a tractor sprayer; Swath matching; Filling the sprayer; Metered spraying; Precision (patch) spraying; Portable line sprayers; Incorporating herbicides; Animal-drawn sprayers; References;
Chapter 8 Air-assisted sprayers; Fans; Pumps; Motorised knapsack mistblowers; Two-stroke engine; Nozzle on mistblowers; Assessment of knapsack mistblowers; Using a knapsack mistblower
Tractor-operated equipment

Sommario/riassunto

Pesticide Application Methods is the standard work on the subject for all those involved in crop protection. This fully updated Fourth Edition takes account of the considerable changes in legislation, especially within the European Union, affecting some pesticides and how they can be applied. With greater emphasis now on protecting the environment, an additional chapter in this edition describes the importance of managing treatments to minimise spray drift, and the chapter on applying biopesticides has been updated, with the assistance of Paul Miller and Roy Bateman respectively.
