Soils and Crop Protection Chemicals

Monograph No. 27

Proceedings of a Symposium held at Wye College, Kent. 11th and 12th July, 1984

Edited by R. J. HANCE

BCPC Publications 2A Kidderminster Road Croydon CR0 2UE



Contents

SY	MPOSIUM PROGRAMME COMMITTEE	Page vii
1.	SETTING THE SCENE	1
	Is there a future for soil-acting herbicides? D. H. BROOKS	3
	Pesticides and soils: a regulatory view B. THOMAS	15
	Soil applied chemicals: the decision making process A. J. BIDE	25
	Crop protection chemicals and root growth R. J. W. DIGHT	29
2.	FACTORS AFFECTING ACTIVITY Factors affecting the uptake of soil-applied chemicals by plants and other	33
	organisms G. G. BRIGGS	35
	Formulation and application factors involved in the performance of soil- applied pesticides C. G. L. FURMIDGE	49
	Relationships between soil cultivation and pesticide performance R. J. HANCE and E. G. COTTERILL	65
	The influence of cultural practices on the activity of soil-acting herbicides S. R. MOSS	77
3.	FACTORS AFFECTING PERSISTENCE Variables determining the rates of biodegradation of pesticides in soil J. P. E. ANDERSON. Paper not submitted	87
	Influence of soil and environmental factors on pesticide persistence A. WALKER and R. ALLEN	89
	Decomposition of simazine in different soils under field and laboratory conditions B. C. KOSTOWSKA and J. ROLA	101
	Simulation of the persistence of atrazine in a French soil C. VACHER and E. FABRE	109
	Enhanced biodegradation of pesticides: the phenomenon and its implications D. D. KAUFMAN. Paper not submitted	
	Evidence for enhanced degradation of iprodione in soils treated previously with this fungicide A. WALKER, A. R. ENTWISTLE and N. J. DEARNALEY	117

4.	SOIL-ACTING PESTICIDES IN PRACTICE: LIMITATIONS AND OPPORTUNITIES	125
	Fungicides for soil and seed application: current practice and future prospects	
	N. H. ANDERSON	127
	Control of pests in soil: problems and opportunities J. P. FISHER and J. ROBINSON	147
	Soil-applied herbicides in current and future husbandry systems J. H. ORSON	163
	CONTRIBUTORS, SESSION CHAIRMEN AND SESSION ORGANISERS	177