Pesticide Use and Pest Management Practices for Major Crops in North Dakota - 2000

P. Glogoza, M. McMullen, R. Zollinger, A. Thostenson, T. DeJong, W. Meyer, N. Schauer, J. Olson

North Dakota State University NDSU Extension Service

PESTICIDE USE FOR FIELD PEA

North Dakota began producing significant acres of dry pea in the past 10 years. Approximately 1,600 acres of dry pea in 1991 and 102,000 acres in 1998 were produced in North Dakota. Field pea is an annual cool-season legume, also known as a pulse crop. Field pea is primarily used for human consumption or as a livestock feed. Field pea also may be grown as a green manure or green fallow crop.

This is the first time the pesticide use pattern on field pea has been documented for North Dakota. The only pesticides reported were from the herbicide group. Ninetysix percent of the field pea acres was treated with herbicides. A total of nine different active ingredients were reported by survey respondents. Quizalofop-p was applied on 42.2% of the acres (Table 24) and was the most frequently used herbicide. Other herbicides were bentazon on 16.1%, sethoxydim on 14.4%, ethalfluralin on 7.0%, glyphosate on 5.9%, and imazethapyr on 4.6% of the acres.

Paraquat was used as a desiccant, but reporting was insufficient to permit acreage estimates.

TABLE 24 . FIELD PEA: Herbicide, Insecticide, Fungicide, and Desiccant usage and application method. North Dakota, 2000

		Acres	Applications			Applicator		Method of	
	Acres		Applications		Farm		Application		
	Treated ²	Treated	1 X	2 X	3 X	Operator	Custom	Aerial	Ground
	(1000)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Herbicide ¹									
2,4-D	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bentazon	10.8	16.1	100.0			100.0			100.0
Ethalfluralin	4.7	7.0	100.0			100.0			100.0
Glyphosate	4.0	5.9	100.0			100.0			100.0
Imazethapyr	3.1	4.6	100.0			100.0			100.0
MCPA	NS	NS	NS	NS	NS	NS	NS	NS	NS
Quizalofop-P	28.3	42.2	100.0			100.0			100.0
Sethoxydim	9.7	14.4	100.0			100.0			100.0
Triallate + Trifluralin	NS	NS	NS	NS	NS	NS	NS	NS	NS
All Herbicides	64.4	96.0	100.0			100.0			100.0
Desiccant									
Paraquat	NS	NS	NS	NS	NS	NS	NS	NS	NS
All Desiccants	NS	NS	NS	NS	NS	NS	NS	NS	NS

¹Herbicides applied as a tank mixture were considered separately unless a commercial premix was used.

² Multiple applications to the same acre were reported as separate values. Acres treated can exceed 100% of the planted acres.

NS - not sufficient to estimate district or state projections.