

APPENDIX H

Herbicide Formulations

An inert ingredient is defined as any intentionally added ingredient in an herbicide product that is not pesticidally active. Inert ingredients may function as solvents, surfactants, emulsifiers, or flow conditioners. Generally, the identity of these inert ingredients is proprietary information of the herbicide manufacturer.

The Environmental Protection Agency's (EPA) toxicological tests on herbicides for registration purposes have regularly concentrated on the active ingredient of the formulation, rather than the formulation as a whole; therefore, the environmental effects of most inert ingredients are largely unknown. In developing their policy on inert ingredients, the EPA has divided them into four toxicity categories or lists: List 1, Inerts of Toxicological Concern; List 2, Potentially Toxic Inerts/High Priority for Testing; List 3, Inerts of Unknown Toxicity; and List 4, Inerts of Minimal Concern.

The ARNF & PNG will use herbicide formulations that do not contain inert ingredients known or suspected to be toxic, by avoiding formulations that contain inerts on EPA's List 1 or List 2. If there is no such product available, then an herbicide product that does contain inert ingredients identified on EPA's List 1 or 2 may be considered for use, with additional review of the risks involved.

Formulations of Selected Herbicides That Do Not Contain Inert Ingredients on EPA Lists 1 or 2

Active Ingredient	Chemical Company	Product Name	EPA Registration Number
2,4-D	Rhône-Poulenc Ag.	Weedar 64	264-2
	Rhône-Poulenc Ag.	Weedar 64A	264-143
	Platte Chemical	Clean Crop Amine 4	34704-5 & 34704-120
	Cornbelt Chemical	2,4-D Weed Killer Weed Pro 4# Amine	10107-31
Chlorsulfuron	Dupout	Telar	352-404
Dicamba	Sandoz	Banvel Herbicide	55947-1
	Sandoz	Banvel 4S	55947-4
	Sandoz	Banvel 4WS	55947-18
	Sandoz	Banvel CST	55047-32
Dicamba + 2,4-D	Sandoz	Weedmaster	55947-24
Glyphosate	Monsanto	Rodeo	524-343
	Monsanto	Roundup	524-308
Glyphosate + 2,4-D	Monsanto	Landmaster	524-351
	Monsanto	Landmaster II	524-376
Picloram	Dow	Tordon 2K	464-333
	Dow/Elanco	Tordon 22K	464-323
	Dow/Elanco	Tordon K	464-421
	Dow/Elanco	Grazon PC	820002
Picloram + 2,4-D	Dow/Elanco	Tordon 101	464-306
	Dow/Elanco	Tordon 101R	464-510
	Dow/Elanco	Tordon RTU	464-510

REFERENCES:

BLM 1991 FEIS, Appendix M -- Herbicide Formulations.

1997 Crop Protection Chemicals Reference, Chemical and Pharmaceutical Press.

U.S. Environmental Protection Agency Internet site, www.epa.gov, Jan 14, 1999.