

## Sanford Health Pesticide Exposure Cases for South Dakota

The Department of Agriculture receives quarterly reports from the Hennepin County Regional Poison Center in regards to all South Dakota pesticide exposures that are called in by concerned individuals to the poison control number and area hospitals. Exposures are defined as symptomatic cases involving various categories of pesticides which include fungicides, fumigants, herbicides, insecticides, repellents and rodenticides. The relative frequency of cases generally reflects how widely a product is used in the environment. The reporting of systematic poisonings to a central agency is required so that accurate statistics describing the frequency and circumstances of poisonings can be compiled. The information is used by the department to focus on where training and education emphasis needs to be placed to limit these exposures in the future. The patient information that the department receives includes the individuals gender and age, for privacy reasons the individuals name is not disclosed in the incident report. The chart below indicates the status of the patient as being exposed and exhibiting systematic poisoning symptoms and subsequently recovering or had died from a pesticide poisoning. The chart will be updated on a quarterly basis.

2003

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	2	0	0	2
Fumigants	0	0	1	0	1
Herbicides	1	19	12	1	33
Insecticides	8	45	57	12	122
Repellents	0	12	38	3	53
Rodenticides	11	12	12	14	49

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	0	0		0
Fumigants	0	0	0		0
Herbicides	0	0	0		0
Insecticides	0	0	0		0
Repellents	0	0	0		0
Rodenticides	0	0	0		0

2004

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	2	0	1	3
Fumigants	0	0	1	0	1
Herbicides	0	25	15	2	42
Insecticides	1	50	64	13	128
Repellents	0	23	43	4	70
Rodenticides	2	1	22	21	46

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	0	0		0
Fumigants	0	0	0		0
Herbicides	0	0	0		0
Insecticides	0	0	0		0
Repellents	0	0	0		0
Rodenticides	0	0	0		0

2005

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	1	2	0	3
Fumigants	0	2	1	4	7
Herbicides	1	23	13	4	41
Insecticides	9	36	59	15	119
Repellents	2	17	33	2	54
Rodenticides	11	20	17	22	70

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	0	0		0
Fumigants	0	0	0		0
Herbicides	0	0	0		0
Insecticides	0	0	0		0
Repellents	0	0	0		0
Rodenticides	0	0	0		0

2006

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	4	2	0	6
Fumigants	2	1	0	0	3
Herbicides	2	29	11	4	46
Insecticides	17	45	70	12	144
Repellents	2	14	10	4	30
Rodenticides	6	15	11	15	47

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0

2007

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	1	3	1	2	7
Fumigants	0	0	1	0	1
Herbicides	1	22	29	2	54
Insecticides	7	56	93	21	177
Repellents	3	18	28	3	52
Rodenticides	6	9	18	14	47

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0

2008

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	1	3	2	0	6
Fumigants	0	0	2	0	2
Herbicides	1	22	26	1	50
Insecticides	21	52	97	19	189
Repellents	3	15	26	0	44
Rodenticides	0	13	20	27	60

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0

2009

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	7	3	2	12
Fumigants	0	13	3	0	16
Herbicides	2	94	31	0	127
Insecticides	6	250	64	21	341
Repellents	4	58	23	3	88
Rodenticides	5	65	10	15	95

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0
	0	0	0		0

2010

	<u>Exposures</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
Fungicides	0	1	0	1	2
Fumigants	8	2	0	0	10
Herbicides	2	32	18	4	56

	<u>Deaths</u>				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total
	0	0	0		0
	0	0	0		0
	0	0	0		0



Fungicides: An agent that destroys fungi or inhibits their growth

Fumigants: Is a smoke, vapor or gas used for disinfecting or destroying pests

Herbicides: Algaecides, defoliant, desiccants, plant growth regulators.

Insecticides: Insect growth regulators, molluscides, nematicides.

Repellents: Bird, dog or other mammal repellent, insects.