

United States Department of Agriculture

National Agricultural Statistics Service



Ag Ch 1 (06)

Agricultural Chemical Usage Postharvest Applications -Peanuts Summary

March 2006



Table of Contents

Page

Overview
Highlights 4
Postharvest Chemical Use Tables
Pest Management Practices Tables
Survey Procedures
Estimation Procedures
Reliability
Terms and Definitions
Classes, Common Names, and Trade Names
Survey Instrument
Report Features

Postharvest Chemical Use Estimates for Peanuts

Overview: The agricultural chemical use estimates in this report are based on data compiled from the 2005 Peanut Postharvest Chemical Use Survey. The Postharvest Survey was conducted for peanuts marketed from August 1, 2004 to July 31, 2005 which covers the 2004 crop. All results refer to pesticide applications and integrated pest management at off-farm storage and processing facilities after the peanuts were harvested. On-farm postharvest applications were beyond the scope of this survey.

There were 187 peanut storage and processing facility reports summarized across 33 States. The U.S. map shows the number of summarized reports by State. There were insufficient reports to publish data for Arkansas, Florida, Idaho, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, New Mexico, Rhode Island, South Carolina, Tennessee, Utah, Washington, and Wisconsin for chemical application rates and pest management practices.

Number of Usable Peanut Postharvest Reports 2004-05 Marketing Year

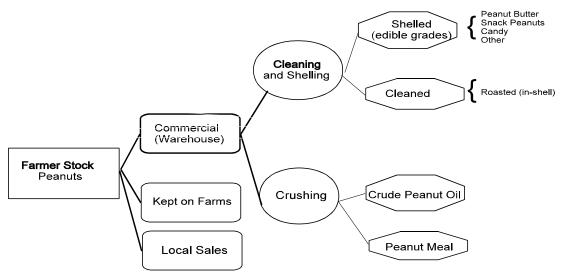


After harvest, the Federal State Inspection Service inspects the peanuts before they are moved into storage facilities or onto peanut shellers and processors. Peanut butter accounts for the largest share of all products made from peanuts. Other products include peanut snacks, peanut candy, and inshell peanuts. Peanuts are usually marketed through local warehouses or processors. The diagram below shows the traditional postharvest marketing channels for peanuts.

The totals for the All States surveyed, as well as individual State totals where data permit, are published for the percent of peanuts treated, number of applications, rate per application, rate per marketing year, and the total amount of an active ingredient applied. A table detailing total pesticide usage by class for the surveyed States is also included. The State of origin of the peanuts was not part of the survey. Operations included in the 2005 Peanut Postharvest Survey were operations that handle greater than thirty thousand pounds of peanuts annually. The States surveyed include those where peanuts are processed in addition to the major peanut producing States.

Peanuts moving from a warehouse operation to a processing operation will be duplicated in the total amount handled. The intent of this survey was to obtain the entire amount of chemicals applied to the stored peanuts; therefore, this duplication in quantity handled is necessary.

In addition to chemical applications, peanut storage facility operators were also asked a series of questions concerning their pest management practices. Answers to these questions are summarized and included in the report. A copy of the survey instrument used to collect the data is also included.



Peanuts: Uses and Products

Highlights

Pesticides: Silicon dioxide and aluminum phosphide were the top two chemicals used on peanuts in 2005, based on total pounds of active ingredients applied. Silicon dioxide is used to control beetles, weevils, moths, and lice. Aluminum phosphide is used to kill insects, insect larvae, and mites.

The following table lists active ingredients applied to peanuts after harvest by State. Of the 15 active ingredients reported, application rate data are provided for six at the All State level and four in Georgia.

Active Ingredient	State
Aluminum phosphide	AL, AR, GA, NC, OK, TX, and UT
Captan	NC and OK
Carboxin	NC and OK
Dichlorvos	AL, GA, and NC
Fenvalerate	GA
Magnesium phosphide	GA
Methyl bromide	NE
Octacide-264	AL, GA, and OK
PCNB	NC and OK
Petroleum distillate	GA
Piperonyl butoxide	AL, GA, and OK
Pyrethrins	AL, GA, and OK
Resmethrin	AL and GA
Silica gel	GA and NC
Silicon dioxide	GA and NC

Postharvest Chemicals Applied to Peanuts by State, 2004-05 Marketing Year

Pest Management Practices: The pest management practices section of the questionnaire asked for mechanical devices or cleaning practices used at the operations surveyed. The timing for inspecting for insects and measuring temperature in the storage bins varies by the season. Therefore, the responses to these pest management questions are organized by "Spring and Summer" and "Fall and Winter."

Peanuts: Postharvest Chemical Applications,
Percent Treated and Total Applied,
States Surveyed and U.S., 2004-05 Marketing Year ¹

State	Volume		Percent Treated and Total Applied							
State	Handled	Insect	ticide	Fungi	icide	Other Chemical				
	1,000 Lbs.	Percent	1,000 Lbs.	Percent	1,000 Lbs.	Percent	1,000 Lbs.			
AL	295,756	*	*							
CA	70,106									
GA	3,596,913	45	27.6							
IL	104,471									
MA	62,817									
MN	9,144									
NJ	12,453									
NY	50,917									
NC	653,444	*	*	*	*					
OH	7,845									
OK	254,479	*	*	*	*					
PA	17,478									
TX	246,774	*	*							
VA	137,205									
Oth States	586,896	*	*							
All States	6,106,698	33	29.1	*	*					

* Insufficient reports to publish data.
 ¹ Blank cells represent no data reported for the item.

	All States	, 2004-03 Iviai	Ketting Teal		
Agricultural Chemical	Volume Treated	Appli- cations	Rate per Application	Rate per Mkt. Year	Total Applied
	Percent	Number	Pounds per 1,000 Lbs.	Pounds per 1,000 Lbs.	1,000 Lbs
Insecticides:					
Aluminum phosphide	24	1.1	0.003	0.003	3.9
Dichlorvos	9	1.0	0.001	0.001	0.5
Octacide-264	6	1.1	*	*	0.1
Piperonyl butoxide	13	1.1	0.004	0.004	3.0
Pyrethrins	13	1.1	*	*	0.3
Silicon dioxide	11	1.0	0.031	0.031	18.1

Peanuts: Postharvest Chemical Applications, All States, 2004-05 Marketing Year

* Rate applied less than 0.0005 pounds.

	Georgia	a, 2004-05 Mari	keting Year		
Agricultural Chemical	Volume Treated	Appli- cations	Rate per Application	Rate per Mkt. Year	Total Applied
	Percent	Number	Pounds per 1,000 Lbs.	Pounds per 1,000 Lbs.	1,000 Lbs
Insecticides:					
Aluminum phosphide	28	1.1	0.003	0.003	3.1
Dichlorvos	12	1.0	0.001	0.001	0.4
Piperonyl butoxide	18	1.1	0.004	0.005	3.0
Pyrethrins	18	1.1	*	*	0.3

Peanuts: Postharvest Chemical Applications, Georgia, 2004-05 Marketing Year

* Rate applied less than 0.0005 pounds.

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year ^{1 2}

Duration		State								
Practice	AL	CA	GA	IL	MA	MN	NJ	NY		
	Percent									
Mechanical Devices:										
Aeration controller	27		27							
Deep bin sampler			13			20				
Phosphine pellet dispenser	9		20							
Power probe	36		13							
Re-circulation fumigation device	9		10							
Temperature cable			13	13						
Cleaning Activities:										
Clean dump pits and transfer legs	64	7	77	38		20	60			
Control vegetation around warehouses	100	86	90	88	60	100	80	20		
Hose down empty warehouse floors	36	50	73	88	100	20	40	40		
Pick up spilled peanuts, clean										
surrounding areas	100	100	93	88	100	100	100	80		
Sweep or vacuum empty warehouse										
floors	100	100	100	88	100	100	100	40		
Use residual insecticides on inner										
surface of empty warehouses	91	86	47		80		60			
Use rodent traps or bait stations	82	100	93	38	100	100	100	80		

Dreation		State								
Aeration controller Deep bin sampler Phosphine pellet dispenser Power probe Re-circulation fumigation device Temperature cable	NC	OH	OK	PA	TX	VA	ALL			
	Percent									
Mechanical Devices:										
Aeration controller	14		20		9		9			
Deep bin sampler							3			
Phosphine pellet dispenser			20		9		3 5 5 2			
Power probe			20				5			
Re-circulation fumigation device							2			
Temperature cable			20	17		14	6			
Cleaning Activities:										
Clean dump pits and transfer legs	86	17	40	33	73	14	42			
Control vegetation around warehouses	93	67	100	75	91	71	79			
Hose down empty warehouse floors	29	33	100	33	45	29	48			
Pick up spilled peanuts, clean										
surrounding areas	93	83	100	100	91	71	89			
Sweep or vacuum empty warehouse										
floors	86	42	100	92	82	71	86			
Use residual insecticides on inner										
surface of empty warehouses	71	8	100	25	55		40			
Use rodent traps or bait stations	93	58	100	92	91	57	82			

¹ Descriptions of these items are included in the Terms and Definitons section of this report on pages 18 and 19.

² Blank cells represent no data reported for the item.

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Spring and Summer¹²

Practice		State								
Practice	AL	CA	GA	IL	MA	MN	NJ	NY		
	Percent									
Inspected for insects:										
Concrete Silos:										
Daily			7							
Twice a week										
Weekly										
Every two weeks					20					
Monthly			3							
Other										
Do not monitor										
Do not have structure	100	100	90	100	80	100	100	100		
Flat Storage Warehouses:										
Daily	27	14	33			60	40			
Twice a week			3			40				
Weekly	18	7	10	13			20	20		
Every two weeks				25						
Monthly	9		7				20			
Other										
Do not monitor	18	57	13	13			20			
Do not have structure	27	21	33	50	100			80		
Other Structures:										
Daily										
Twice a week			3							
Weekly			7	13	20					
Every two weeks	18		7	25						
Monthly	9		7							
Other										
Do not monitor	9		3	13				60		
Do not have structure	64	100	73	50	80	100	100	40		

--continued

Peanuts: Pest Management Practices,
Percent of Operations Utilizing Practice,
2004-05 Marketing Year, Spring and Summer (continued) ¹²

Duction		State								
Practice	NC	OH	OK	PA	TX	VA	ALL			
	Percent									
Inspected for insects:										
Concrete Silos:										
Daily				8	9		2			
Twice a week										
Weekly										
Every two weeks	7						1			
Monthly							1			
Other										
Do not monitor						43	4			
Do not have structure	93	100	100	92	91	57	92			
Flat Storage Warehouses:										
Daily	14	17		33	9		18			
Twice a week		8	20	8	18	14	6			
Weekly	21		40	8		14	11			
Every two weeks	7						2			
Monthly	14	17		8	9		6			
Other										
Do not monitor		17		25	18	43	17			
Do not have structure	43	42	40	17	45	29	42			
Other Structures:										
Daily	29			8	18	14	9			
Twice a week			20				1			
Weekly	7		20	8	9		4			
Every two weeks					9		4			
Monthly	7		20				4			
Other										
Do not monitor	7	25				43	10			
Do not have structure	50	75	40	83	64	43	67			

¹ Numbers for each type of structure may not add to 100 due to rounding. ² Blank cells represent no data reported for the item.

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Fall and Winter¹²

Practice		State								
Practice	AL	CA	GA	IL	MA	MN	NJ	NY		
	Percent									
Inspected for insects:										
Concrete Silos:										
Daily			7							
Twice a week										
Weekly										
Every two weeks					20					
Monthly			3							
Other										
Do not monitor										
Do not have structure	100	100	90	100	80	100	100	100		
Flat Storage Warehouses:										
Daily	18	14	30			60	20			
Twice a week	9		3			40				
Weekly	18	7	13	13				20		
Every two weeks	9			25			20			
Monthly	9		7				20			
Other										
Do not monitor	9	57	13	13			40			
Do not have structure	27	21	33	50	100			80		
Other Structures:										
Daily										
Twice a week	9									
Weekly			7	13						
Every two weeks	18		7	25						
Monthly	9		10							
Other										
Do not monitor			3	13				60		
Do not have structure	64	100	73	50	100	100	100	40		

--continued

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Fall and Winter (continued)¹²

Practice		State								
Practice	NC	OH	OK	PA	TX	VA	ALL			
	Percent									
Inspected for insects:										
Concrete Silos:										
Daily				8	9		2			
Twice a week										
Weekly										
Every two weeks							1			
Monthly							1			
Other										
Do not monitor	7					43	5			
Do not have structure	93	100	100	92	91	57	92			
Flat Storage Warehouses:										
Daily	14	17		17	9	14	16			
Twice a week		8		17	18		5			
Weekly	14		40	17		14	11			
Every two weeks							2			
Monthly	21	17	20	8	9		7			
Other										
Do not monitor	7	17		25	18	43	17			
Do not have structure	43	42	40	17	45	29	42			
Other Structures:										
Daily	29			8	18	14	9			
Twice a week							1			
Weekly			40	8	9		4			
Every two weeks					9		4			
Monthly	14		20				5			
Other										
Do not monitor	7	25				43	10			
Do not have structure	50	75	40	83	64	43	67			

¹ Numbers for each type of structure may not add to 100 due to rounding. ² Blank cells represent no data reported for the item.

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Spring and Summer¹²

Practice				St	ate			
Fractice	AL	CA	GA	IL	MA	MN	NJ	NY
	Percent							
Measure Peanut Temperature:								
Concrete Silos:								
Daily								
Twice a week								
Weekly			10					
Every two weeks								
Monthly								
Other								
Do not monitor			3		20			
Do not have structure	100	100	87	100	80	100	100	100
Flat Storage Warehouses:								
Daily			30			80	40	
Twice a week	9							
Weekly			10					
Every two weeks	9							
Monthly	9						20	
Other								
Do not monitor	45	86	30	50		20	40	20
Do not have structure	27	14	30	50	100			80
Other Structures:								
Daily	9		10					
Twice a week								
Weekly			7					
Every two weeks			3					
Monthly								
Other								
Do not monitor	27		7	50				60
Do not have structure	64	100	73	50	100	100	100	40

--continued

Peanuts: Pest Management Practices,							
Percent of Operations Utilizing Practice,							
2004-05 Marketing Year, Spring and Summer (continued) ¹²							

Practice				State			
Practice	NC	OH	OK	PA	TX	VA	ALL
	Percent						
Measure Peanut Temperature:							
Concrete Silos:							
Daily					9		1
Twice a week							
Weekly				8			2
Every two weeks							
Monthly							
Other							
Do not monitor	7				9	29	5
Do not have structure	93	100	100	92	82	71	92
Flat Storage Warehouses:							
Daily	7	17	40	50	18	14	18
Twice a week							1
Weekly			20	8			4
Every two weeks							1
Monthly		8					1
Other							
Do not monitor	50	33		25	45	43	35
Do not have structure	43	42	40	17	36	43	41
Other Structures:							
Daily					27		6
Twice a week							-
Weekly			20	8			2
Every two weeks				-			1
Monthly							*
Other							
Do not monitor	36	25	40	8	9	57	22
Do not have structure	64	75	40	83	64	43	68

¹ Numbers for each type of structure may not add to 100 due to rounding. ² Blank cells represent no data reported for the item. * Less than 0.5%.

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Fall and Winter¹²

Practice				St	ate			
Flactice	AL	CA	GA	IL	MA	MN	NJ	NY
	Percent							
Measure Peanut Temperature:								
Concrete Silos:								
Daily								
Twice a week								
Weekly			10					
Every two weeks								
Monthly								
Other								
Do not monitor			3		20			
Do not have structure	100	100	87	100	80	100	100	100
Flat Storage Warehouses:								
Daily			30			80		
Twice a week	9							
Weekly			10				20	
Every two weeks								
Monthly	18						20	
Other								
Do not monitor	45	86	30	50		20	60	20
Do not have structure	27	14	30	50	100			80
Other Structures:								
Daily	9		10					
Twice a week			_					
Weekly			7					
Every two weeks			3					
Monthly								
Other								
Do not monitor	27		7	50				60
Do not have structure	64	100	73	50	100	100	100	40

--continued

Peanuts: Pest Management Practices, Percent of Operations Utilizing Practice, 2004-05 Marketing Year, Fall and Winter (continued)¹²

Practice				State			
Practice	NC	OH	OK	PA	TX	VA	ALL
	Percent						
Measure Peanut Temperature:							
Concrete Silos:							
Daily					9		1
Twice a week							
Weekly				8			2
Every two weeks							
Monthly							
Other	-				0	20	~
Do not monitor	7	100	100	02	9	29	5
Do not have structure	93	100	100	92	82	71	92
Flat Storage Warehouses:							
Daily	7	17	40	50	18	14	17
Twice a week							1
Weekly				8			4
Every two weeks							
Monthly		8					2
Other			20				1
Do not monitor	50	33		25	45	43	35
Do not have structure	43	42	40	17	36	43	41
Other Structures:							
Daily	7				27		7
Twice a week							
Weekly				8			2
Every two weeks							1
Monthly							*
Other			20				1
Do not monitor	43	25	40	8	9	57	23
Do not have structure	50	75	40	83	64	43	67

¹ Numbers for each type of structure may not add to 100 due to rounding. ² Blank cells represent no data reported for the item.

* Less than 0.5%.

Peanuts: Pest Management Practices, Strategies Used in Determining Fumigation Schedule 2004-05 Marketing Year ¹

Des stins	State								
Practice	AL	CA	GA	IL	MA	MN	NJ	NY	
	Percent								
Preset Calendar Date			15			50			
Warehouse Samples			15			50			
Scheduled with other Handling									
Operations			15						
Insect Trap Counts			15						
Visual Peanut Inspection	67		25						
Customer Request	33		15						
Other									

Drectice	State							
Practice	NC	OH	OK	PA	TX	VA	ALL	
	Percent							
Preset Calendar Date				100			13	
Warehouse Samples							10	
Scheduled with other Handling								
Operations	25						17	
Insect Trap Counts			25				10	
Visual Peanut Inspection	50		50		100		33	
Customer Request	25		25				16	
Other								

¹ Blank cells represent no data reported for the item.

Survey Procedures: The population for the 2005 Peanut Postharvest Chemical Use Survey included off-farm facilities that handled peanuts during the 2004-05 marketing year. Off-farm facilities included processors, blanchers, shellers, millers, and warehouses. Operations included in the survey were operations that handle greater than thirty thousand pounds of peanuts annually.

Estimation Procedures: The chemical application data, reported by product names or trade names, were reviewed within State and across States for reasonableness and consistency. The reported data were compared with manufacturers' recommendations and data from other operations using the same product. Following this review, product information was converted to active ingredient level. Chemical data in this publication are reported at the active ingredient level.

Detailed data within a table may not multiply across or add down due to independent rounding of the published values.

Reliability: The probability nature of the survey provides for expansion of data so estimates are statistically representative of chemical use on the targeted commodities in the surveyed States. The reliability of these survey results is affected by sampling variability and non-sampling errors.

Non-sampling errors are errors that occur during a survey process, and unlike sampling variability, are difficult to measure. They may be caused by interviewers failing to follow instructions, poorly worded questions, non-response, problematic survey procedures, or data handling between collection and publication. In this survey, procedures and analyses were carried out in a consistent and orderly manner to minimize the occurrence of these types of errors.

Variability for estimates of volume of the commodity handled will be higher than the variability for estimates of application rates. This is because application rates have a narrower range of responses and the manufacturer's recommended rates are generally followed.

Sampling variability of the estimates also differs by chemical. In general, the more often the chemical was applied, the smaller the sampling variability. For example, estimates of use of a commonly used product, such as aluminum phosphide on peanuts in Georgia, will exhibit less variability than a rarely used or reported product.

Terms and Definitions

Active ingredient: The specific chemical which kills or controls the target pests. Usage data are reported by pesticide product and are converted to an amount of active ingredient.

Aeration controller: An automatic (usually computer-based) system that determines the optimum running time (considering humidity and temperature) for aeration fans in the peanuts. They can usually be set for drying or storage mode.

Agricultural chemicals: The active ingredients in pesticides.

Application rates: The average number of pounds of a pesticide active ingredient applied to a volume of product. Rate per application is the average number of pounds applied in one application. Rate per marketing year is the average number of pounds applied counting multiple applications. Number of applications is the average number of times a treated volume receives a specific agricultural chemical.

Common name: Officially recognized name for an active ingredient. This report shows active ingredient by common name.

Deep bin sampler: Usually a vacuum type device that allows one to reach deeply into a peanut bin and sample peanuts that are normally out of reach to typical probe samplers.

Dump pit: Place where peanuts are received at a storage operation.

Fumigant: A substance or mixture of substances which produce a gas vapor, fume, or smoke intended to destroy insects, rodents, or bacteria.

Marketing year: The period immediately following harvest of the crop through the marketing or disposition of the crop. The 2005 marketing year for peanuts was August 1, 2004 through July 31, 2005.

Pesticides: As defined by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), pesticides include any substance or mixture of substances intended for preventing, destroying, repelling, or mitigating any pest, and any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant.

Phosphine pellet dispenser: Manually or automatically dispenses phosphine pellets to a stream of peanuts as they are being loaded.

Postharvest: Any subsequent activity after the commodity is harvested from the field. Postharvest chemical usage refers to chemical applications after the commodity is taken from the field.

Power probe: A fully integrated mechanized system for sampling stationary lots of peanuts in trucks or similar conveyance. It obtains a representative sample by inserting a probe-like device into the peanuts, opening the probe to allow peanuts to enter, closing, and then the sample is pneumatically withdrawn from the probe.

Processor: Processors actually change the form of the commodity. These firms may have storage facilities as well.

Protein analyzer: Usually infrared analyzers that can, within a matter of minutes, determine the composition of peanuts. Values obtained can include protein, oil, starch content, moisture content, and kernel density.

Re-circulation fumigation device: A fan that is combined with PVC pipe on the outside of a peanut storage unit. The PVC runs from the top, down the sides, through the fan, and into the bottom of the peanut storage unit. Rather than probing fumigant pellets into the grain mass from the surface of the peanuts, you can use a much lower concentration of fumigant and place the pellets in the PVC pipe from outside of the peanut storage unit. Advantages include using less chemical, increased worker safety, and more uniform distribution of the gas since the fans force the fumigant throughout the peanut mass.

Residual Insecticide: Insecticide or its degraded products remaining on the peanuts or surface of the storage unit.

Temperature cable: Cable running from top to bottom in a storage unit that automatically measures peanut temperature and outputs this information to a central system.

Total quantity treatments: Total volume handled multiplied by the percent of volume treated and the average number of applications.

Trade name: Name given to a specific formulation of a pesticide product. A formulation contains a specific concentration of the active ingredient, carrier materials, and other ingredients such as emulsifiers and wetting agents. Some formulations, as in the case of pre-mixes, can contain more than one active ingredient.

Transfer legs: The last or next to last dump from a boom or an elevator into a warehouse.

Volume Handled: The volume of a commodity handled by the market segment. In this release, it is the total amount of a commodity that passed through the firms summarized in the particular table.

Volume treated: The percentage of the volume handled which received one or more applications of a specific agricultural chemical.

Classes, Common Names, and Trade Names

The following is a list of Classes, Common Names, and Trade Names of active ingredients in this publication. The classes are insecticides (I) and fungicides (F). This list is provided as an aid in reviewing the data. Pre-mixes are not cataloged. The list may not be complete for all postharvest chemicals available for use on peanuts. NASS does not promote use of any specific trade name.

Class	Common Name	Trade Name
Ι	Aluminum phosphide	Phostoxin, Gastoxin, Fumiphos, Weevilcide
F	Captan	Vitavax
F	Carboxin	Vitavax
Ι	Dichlorvos	DDVP
Ι	Fenvalerate	F-V-S Fogger
Ι	Magnesium phosphide	Magtoxin
Ι	Methyl bromide	Methyl bromide
Ι	Octacide-264	CB Total Release, BP-100 ULD, F-V-S Fogger, Pro Control, Entech Fog-10
F	PCNB	Vitavax
Ι	Petroleum distillate	Pyrenone
Ι	Piperonyl butoxide	Pyrenone, CB Total Release, BP-100 ULD, F-V-S Fogger, Pro Control, Entech Fog-10
Ι	Pyrethrins	Pyrenone, CB Total Release, BP-100 ULD, F-V-S Fogger, Pro Control, Entech Fog-10
Ι	Resmethrin	Resmethrin
Ι	Silica gel	Protect-it
Ι	Silicon dioxide	Protect-it, Diatomaceous Earth Insecticide



2005 PEANUT POSTHARVEST CHEMICAL USE SURVEY

Form Approved OMB Number 0535-0218 Approval Expires 1/31/2007 Project code 143

U.S. Department of Agriculture, Rm 5030, South Building 1400 Independence Ave., S.W. Washington, DC 20250-2000 1-800-727-9540 202-690-2090 nass@nass.usda.gov

VERSION	ID	SUBTRACT	T-TYPE	TABLE	LINE
01			0	000	00

CONTACT RECORD					
TIME	NOTES				
		į.			
	TIME				

INTRODUCTION:

[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on chemical use and need your help to make the information as accurate as possible. Authority for collection of information on the Peanut Postharvest Chemical Use Survey is Title 7, Section 2204 of the U.S. Code. This information will be used for analysis and to compile and publish estimates for your state and the United States. Response to this survey is confidential and voluntary.

We encourage you to refer to your records during the interview.

BEGINNING TIME {MILITARY}.....

		•	
Name			 ······
Address			
hone()		

004

[Name, address and partners verified and updated if necessary.

1. Did this operation (*as listed on the label*) handle/receive any peanuts from August 1, 2004 to July 31, 2005?

YES - [Go to page 3.]

NO- [Go to page 2.]

• 1		OPERATION	
[Complete this section	only if item 1 on the front page	e is answered "No".]	
Has the operation named	i on the label been sold, rented ,	or turned over to someone else?	
YES - [Go to item 2.]	No – [Continue.]		
a. Will the operation har	ndle or receive peanuts or other	crops at any of its facilities in 2005?	
[Write a note to explain	the situation, then go to back	page, Conclusion.]	
Please provide the name the business you formerly	and address of the operation the	at has taken over	
Operation Name:		· · · · · · · · · · · · · · · · · · ·	
Operator Name			
Address:	с		
City:		State:	Zip:
Phone:			
T none		-	
DTES AND CALCULATION	Make notes below a	nd conclude interview.	
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		
	Make notes below a		

Now I would like to ask about the peanuts handled/received from August 1, 2004 to July 31, 2005.

Please use your records to help us get an accurate record of peanut receipts.

Α

1.	What was the total quantity of unshelled peanuts handled/re from August 1, 2004 to July 31, 2005 on this operation?	eceived	1 - BUSHEL (6) 4 - SHORT TON 5 - CWT. (100 I 6 - POUND 7 - METRIC TO 9 - OTHER	N (2,000 lbs) bs)
	QUANTITY	UN	ЛТ	If "9" enter POUNDS/UNIT
	200,,,,	201		202
2.	What was the total quantity of shelled peanuts handled/rece from August 1, 2004 to July 31, 2005 on this operation?	vived		• •
	QUANTITY	UN	11T	If "9" enter POUNDS/UNIT
	210,,,	211		212 ·
3.	Did ALL peanuts received from August 1, 2004 to July 31, 20 postharvest chemical application?	005 receive a		
	YES - [Go to Section B, page 4.]	NO - [Continue.]		
4.	Did ANY peanuts received from August 1, 2004 to July 31, 20	005 receive a postharvest c	hemical appli	cation?
	□ YES - [<i>Continue</i> .]] NO - [Go to Section C, pa	age 6.]	
5.	Of the peanuts in items 1 and 2, how many, both unshelled a applications while in storage, on the ground, in barges, ships,	nd shelled, DID NOT receiv , railcars or on trucks?	e postharves	t chemical
		QUANTITY NOT TREA	TED OI	PERCENT OF TOTAL R NOT TREATED
	a. Unshelled peanuts?	206 ,,,		207
	b. Shelled peanuts?	216	· •	217
EN	UMERATOR NOTE: [If postharvest chemicals were applied	ed, go to Section B, page 4.]	

Α

POSTHARVEST CHEMICAL TREATMENTS APPLIED

Now I have some questions about postharvest chemical data on **peanuts** handled, stored, or processed by your operation from August 1, 2004 to July 31, 2005. I will be asking for chemical products used, quantity treated, total amount of product applied, timing and method of application. Please use your records to answer the questions as accurately as possible and to insure we do not miss any products used. Include shelled and unshelled peanuts treated while in storage by this operation or on the ground, or in barges, ships, rail cars or on trucks.

			OFFICE USE LINES IN TABLE
T-TYPE	TABLE	LINE	399
3	001	99	

TIMING CODES FOR COLUMN 2

- 5 In Bound
- 6 Putting in Warehouses 7 While Stored
- 8 Out Bound

		1	2	3			
		What product wa (in Respondent		When was this product applied?			
NOTES	N E	(a) COMMON OR TRADE NAME	(b) PRODUCT CODE	[Enter code from above.]	(a) Type of Peanut? 1 = Shelled 2 = Unshelled CODE	(b) What was the total quantity of peanuts treated with this chemical (<i>in column 1</i>)?	
	01		305	307	320	321	
	02		305	307	320	321	
	03		305	307	320	321	
*********	04		305	307	320	321	
	05		305	307	320	321	
	06		305	307	320	321	
	07		305	307	320	321	
	08		305	307	320	321	
	09		305	307	320	321	
	10		305	307	320	321	
		[For pesticides n	ot listed in Respond	ent Booklet, specify	· /]		
LINE	EPA N	o. or Trade name	Form Purc	hased	Where Pu	urchased	

NO.	and Formulation	i viii i uivilaseu			
		······			
······					

4

В

POSTHARVEST CHEMICAL TREATMENTS APPLIED

UNIT CODES FOR COLUMN 4 UNIT CODES FOR COLUMN 7

- 1 BUSHEL (*60 lbs*) 4 - SHORT TON (*2,000 lbs*)
- 5 CWT. (100 lbs)
- 6 POUND
- 7 METRIC TON (2,204.6 lbs)
- 9 OTHER

ł	UNIT CODES FOR COLU
	1 - POUNDS
	12 - GALLONS
	13 - QUARTS
	14 - PINTS
	15 - OUNCES, LIQUID
	28 - OUNCES, DRY
	30 - GRAMS
	40 - KILOGRAMS
	41 - LITERS
	45 - PELLETS
	46 - TABLETS
	50 - OTHER (Specify

APPLICATION CODES FOR COLUMN 8

3 - DIRECT SPRAY DURING LOADING

- 5 TOP DRESS
- 7 FUMIGATION WITH PELLETS/TABLETS
- 9 HEAD SPACE MISTING DEVICE
- 10 FUMIGATION WITH GAS
- 11 OTHER (Specify_____

L I N E	4 [Enter Unit code from above]	5 If column 4 unit equais "9" enter pounds per unit.	6 What was the total amount of formulated product applied to the amount of peanuts in column 3b?	7 [Enter unit code from above.]	8 What was the method used to apply this product? CODE	
01	322	323	309	310	311	
02	322	323	309	310	311	
03	322	323	309	310	311	
04	322	323	309	310	311	
05	322	323	309	310	311	
06	322	323	309	310	311	
07	322	323	309	310	311	
08	322	323	309	310	311	
09	322	323	309	310	311	
10	322	323	309	310	311	

5

Enumerator Notes:

В

в

_)

PEST MANAGEMENT PRACTICES

		w I have some questions about pest man u may have used at your facilities. Include		T-TYPE 0	TABLE 000	LINE 00
1.	Dic	d you use a				
	a.	power probe?				CODE
		YES – [Enter code 1 and continue.]	□ NO – [Continue.]			650
	b.	aeration controller?	ź			
		YES – [Enter code 1 and continue.]	□ NO – [Continue.]			651
	c.	phosphine pellet dispenser?				······································
		YES – [Enter code 1 and continue.]	🗌 NO – [Continue.]			652
	d.	temperature cable?				
		YES – [Enter code 1 and continue.]	NO – [Continue.]			653
	е.	re-circulation fumigation device?				
		YES – [Enter code 1 and continue.]	NO – [Continue.]		•••••	655
	f.	deep bin sampler?				
		YES – [Enter code 1 and continue.]	NO – [Continue.]			656

 How often are your peanuts inspected for insects in your (concrete silos, flat storage warehouses, or other structures) (*including* wood bins) during the spring/summer and fall/winter months?

С

	SPRING/SUMMER	FALL/WINTER	_	CODE
Concrete Silos	658	659		1 - DAILY 2 - TWICE A WEEK
Flat Storage Warehouses	660	661	•	3 - WEEKLY 4 - EVERY 2 WEEKS 5 - MONTHLY
Other Structures (Include wood bins)	662	663		6 - OTHER - (<i>Specify</i>) 7 - DO NOT MONITOR 8 - DO NOT HAVE STRUCTURE

3. How often do you measure peanut temperature in your (*concrete silos, flat storage warehouses, or other structures*) (*including wood bins*) during the spring/summer and fall/winter months?

	SPRING/SUMMER	FALL/WINTER	_	CODE
Concrete Silos	664	665		1 - DAILY 2 - TWICE A WEEK
Flat Storage Warehouses	666	667]	3 - WEEKLY 4 - EVERY 2 WEEKS 5 - MONTHLY
Other Structures (Include wood bins)	668	669]	6 - OTHER – (<i>Specity</i>) 7 - DO NOT MONITOR 8 - DO NOT HAVE STRUCTURE

С

C		PEST MA	NAGEMENT PRACTICES	C
4.		hich practices do you use at your storage facili d you	ities	
	a.	sweep or vacuum, empty warehouse floors?		CODE
		YES – [Enter code 1 and continue.]	🗌 NO – [Continue.]	670
	b.	hose down empty warehouse floors?		
	c.	□ YES – [Enter code 1 and continue.] use residual insecticides on inner surface of warehouses?	✓ □ NO – [Continue.]	671
		YES – [Enter code 1 and continue.]	□ NO – [Continue.]	672
	d.	pick up spilled peanuts/clean surrounding an		
		□ YES – [Enter code 1 and continue.]	□ NO – [Continue.]	673
	e.	control vegetation around warehouses?		••••
		☐ YES – [Enter code 1 and continue.]	□ NO - [Continue.]	674
	f.	clean dump pits and transfer legs?		···· [
		YES – [Enter code 1 and continue.]	NO – [Continue.]	675
	g.	use rodent traps or bait stations?		···· L
	Ĭ	YES – [Enter code 1 and continue.]	□ NO - [Continue.]	676
5.		.		
	yo	ur storage facilities?		
	yo D] NO [Go to item 6.]	677
	yo D a.] NO [Go to item 6.]	
		YES – [Enter code 1 and continue.]] NO [Go to item 6.]	677 OFFICE USE 678
		YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE
		YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE
		YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679
		YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680
6.	□ a. 	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680
6.	a. Dic	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680 681
6.	a. Dic	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680 681 CODE
1.	a. Dic a.	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680 681 CODE
1 - 2 - 3 - 4 -	a. — — — — — — — — — — — — —	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680 681 CODE
1 · 2 · 3 · 4 · 5 ·	a. Dia Dia PRE WAR CUSS	YES – [Enter code 1 and continue.]] NO [Go to item 6.]	OFFICE USE 678 679 680 681 CODE 682
1 · 2 · 3 · 4 · 5 ·	a. Dia Dia PRE WAR CUSS	YES – [Enter code 1 and continue.] What did you do? [Record responses below. d you fumigate peanuts? YES – [Enter code 1 and continue.] What was the strategy(ies) you used to decid (Enter up to two strategies.) SET CALENDAR DATE REHOUSE SAMPLES EDULED WITH OTHER HANDLING OPERATIONS ECT TRAP COUNTS JAL PEANUT INSPECTION FTOMER REQUEST	NO [Go to item 6.]]	OFFICE USE 678 679 680 681 CODE 682 683

CONCLUSION

					001								
SURVEY PU	BLICAT	IONS								-			
That corr results w	pletes t hen the	he survey. \ y are publish	Nould ed? (F	you like to Results will als	receive so be avai	a free co	py of the	ə at <u>http://\</u>	www.usd	a.gov/nass/)	COL	DE
		code 1 and				<u>П NO –</u>					- -	099	
		the respo		-			-		••••	•••••	····· [
L	THATK	ine respo	nuem	unen rev		is quesi	onnan	<i>e</i> .]			F		
ENDING TIM	E [<i>MILI</i>	TARY]											<u> </u>
											_		
		. · · ·										006	
RECORDS L	ISE										L		•
Dia respo	ondent l	use operation	1 recor	as to repor	t chemi	cal data?					б	64	
🗌 YES -	- [Enter	code 1 and	continu	<i>1</i> 0.]		🗌 NO –	[Continu	<i>ю.</i>]		•••••••	·····.[
SUPPLEME	NTS US	ED										NUM	BER
Record ti	ne total	number of cl erview	nemica	al treatment	t supple	ments us	ed to					068	
oompiote					•••••		•••••				····· L		
Reported	l by:	1				1	elephor	ne No.()				
							·						
7													
						T			ate				
Respon	se 9901	Respond 1- Op/Mgr	ent 9902	Moc 2-Tel	ie 9903	Enum. 098	Eval. 100	007	DD YY	R Unit 921	Adj Factor 922	Optional 002	Option 003
1-Comp 2-R		2-Sp		3-Face-to				1		[- .			
3-Inac		3-Acct/Bkpr 4-Partner		-Face									
4-Office Hold			1	1	1 .	1	1	1		1			1

8-Known Zero S/E Name

8

_05

9-Other

Report Features

Released March 29, 2006, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Agricultural Chemical Usage" call (202) 720-6146, office hours 7:30 a.m. to 4:00 p.m. ET.

The next **''Agricultural Chemical Usage: Postharvest Applications''** will be released during the spring of 2007. This report will cover the use of postharvest chemicals on oats and potatoes during the 2005-06 marketing year.

Listed below are persons within the National Agricultural Statistics Service to contact for additional information.

Liana Cuffman, Environmental Statistician	(202) 690-0392
Mark R. Miller, Head, Environmental and Demographics Section	(202) 720-0684
Linda Hutton, Chief, Environmental, Economics, and Demographics Branch	(202) 720-6146

ACCESS TO REPORTS!!

For your convenience, there are several ways to obtain NASS reports, data products, and services:

INTERNET ACCESS

All NASS reports are available free of charge on the worldwide Internet. For access, connect to the Internet and go to the NASS Home Page at: **www.nass.usda.gov**.

E-MAIL SUBSCRIPTION

All NASS reports are available by subscription free of charge direct to your e-mail address. Starting with the NASS Home Page at **www.nass.usda.gov**, under the right navigation, *Receive reports by Email*, click on **National** or **State**. Follow the instructions on the screen.

PRINTED REPORTS OR DATA PRODUCTS

CALL OUR TOLL-FREE ORDER DESK: 800-999-6779 (U.S. and Canada) Other areas, please call 703-605-6220 FAX: 703-605-6900 (Visa, MasterCard, check, or money order acceptable for payment.)

ASSISTANCE

For **assistance** with general agricultural statistics or further information about NASS or its products or services, contact the **Agricultural Statistics Hotline** at **800-727-9540**, 7:30 a.m. to 4:00 p.m. ET, or e-mail: **nass@nass.usda.gov.**

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.