### 2015 FRUIT CHEMICAL USE SURVEY

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	VERSION 01		POID	SUBTRACT			
			CONTACT RE	CORD			
	DATE	TIME		NOTES			
	INTRODUC	TION:					
	[Introduce yo	urself, and ask	for the operator. Rephrase in your own w	vords.]			
	you provide w Subtitle A, Pu identifiable fo	vill be used for sublic Law 107-3 rm to anyone o	n on chemical use and need your help to restatistical purposes only. In accordance was 47 and other applicable Federal laws, you ther than employees or agents. By law, e or she willfully discloses ANY identifiable	vith the Confidentia or responses will be very employee and	al Information Protec e kept confidential a d agent has taken a	ction provisions and will not be d an oath and is s	s of Title V, disclosed in subject to a
	According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0535-0218. The time required to complete this information collection is estimated to average 70 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.						
	We encourag	e you to refer to	o your records during the interview.				
		••• · · · · · · · · · · · · · · · · · ·	\\ \alpha \			004	
		-	[Y]				
	-	-	s verified and updated if necessary.]				
1.	livestock or	poultry on the	rops (including new plantings), e total acres operated? (Exclude target] operator is landlord only.)	☐ <b>YES</b> – [Go to	o item 5, page 2.]	NO-[Conti	inue.]
2.	or receive g	jovernment aç	eration sell any agricultural products gricultural payments? ( <i>Exclude crops operator is landlord only.</i> )	☐ YES - [Go to	item 5, page 2.]	□ <b>NO</b> -[Conta	inue.]
3.	operated?	(Exclude crops )	rops stored on the total acres  produced by a tenant if [target] operator is	☐ YES - [Go to	item 5, page 2.]	□ <b>NO</b> -[Conti	inue.]
4.			eration have any fruit acres a management firm?	☐ YES - [Go to	item 5, page 2.]	□ <b>NO</b> -[Go to	o page 4.]

## **SCREENING**

1.	Did this operation have any of the target crops during the 2015 crop year?						
	_	-	ng situatio	on then go to "Conc	lusion" on back pag	re.]	
2.	Are the day-to- [Check one.]	day decisions t	for this op	eration ( <i>name on l</i> a	abel) made by –		
	☐ partners?	[Continue.]					
3.	[Enter the nur Identify the ot	nber of partner her persons in	s, includir this partn	ng the partner name ership below, then	go to.]		NUMBER
	(Partners jointly o	perate land and sl	hare in decis	sion making. <b>Do not in</b>	<b>clude</b> landlords and tena	ants as partners.)	
PA	RTNERS	POID			PARTNERS	POID	
PAF	RTNER NAME				PARTNER NAME		
ADI	DRESS				ADDRESS		
CIT	·Y	STATE	ZIP	PHONE NUMBER	CITY	STATE ZIP	PHONE NUMBER
РΑ	RTNERS	POID			PARTNERS	POID	
PAF	RTNER NAME		_		PARTNER NAME		
ADI	DRESS				ADDRESS		

CITY

PHONE NUMBER

PHONE NUMBER

STATE

ZIP

CITY

ZIP

STATE

# **TARGET CROPS & CODES**

<u>FLORIDA</u>				
313	Grapefruit			
325	Oranges, All			
336	Tangelos			
339	Tangerines			
	_			

NEW JERSEY					
305	Blueberries				
330	Peaches				

OREGON				
101	Apples			
304	Blackberries			
305	Blueberries			
307	Cherries, Sweet			
331	Pears			
335	Raspberries			
•				

<u>GEORGIA</u>					
305	Blueberries				
330	Peaches				

	NEW YORK
101	Apples
308	Cherries, Tart
314	Grapes, All

SOUTH CAROLINA		
330	Peaches	

<u>MICHIGAN</u>				
101	Apples			
305	Blueberries			
307	Cherries, Sweet			
308	Cherries, Tart			
330	Peaches			

NORTH CAROLINA				
101	Apples			
305	Blueberries			

	<u>TEXAS</u>	
313	Grapefruit	
330	Peaches	

## **CHANGE IN OPERATING STATUS**

[ENUMERATOR NOTE: Skip this section if there is no change in operation name or operator.]

1.	Has there been a change in operation name or operator?				
	□ NO - [Go to Enumerator Note below.]				
				CODE	
		nformation below for new operator,	023		
			Operation Name		
	Operator Name				
			Address		
			Phone ()		
			Friorie ()		
[El	NUMERATOR NOTE:	questionnaire for the part of the operation has been taken over	e was in business part of the 2015 crop year, c year during which the operation did business, by a new operator. If the operator has changed hish with the new operator after reading "Valid S Manual.]	unless the d midyear, please	
2.	Has the operation prin ☐ Yes - [Go to "Cond	•	ombined or merged with any other farming ope	rations?	
	☐ No - [Continue.]				

# **CALIFORNIA SCREENING**

What ID (pesticide permit number) does this op		COUNTY	NUMBER
for reporting pesticide applications on the targe bearing acres to the County Agricultural Comm	issioners?		
2. Is this ID used to report pesticide applications for	or any other operations?		
☐ YES - [Continue.] ☐ NO -	- [Go to item 3.]		
a. What other operation(s) is this ID used to re	eport for?		
Name	Name		
Address	Address		
Phone ( )	Phone ( )		
Does this operation use any <b>OTHER</b> ID's to repon the target crops' bearing acres to the County		•	
☐ YES - [Continue.] ☐ NO - [G	Go to Section A, page 5.]		
		COUNTY	NUMBER
a. What are these other ID numbers?			
b. Do you use any of these ID's to report pest	icide applications		
for any other operation(s)?	• Go to Section A, page 5.]		
(i) What other operation(s) use this ID for		and ID1	
, , ,		<u> </u>	
Name			
Reporting ID			
Address			
Phone ( )	Phone ( )		
Do you employ a fruit management company to car		crops?	
	O - [Go to Section A, page 5.]		
What fruit management company do you emplo	oy?		
me	Name		
lress	Address		
one ()	Phone ()		

A LAND OPERATED A

### **ACRES OPERATED**

[En	numerator Action: If acreage on the insert is verified as correct, enter code 1 in box 801, then skip to Section <b>B</b> . If acreage has changed, ask ALL questions.]	<b>CODE</b> 801
No	ow I would like to ask about the total acres operated under this land arrangement.	
1.	How many acres does this operation	
		ACRES
	a. Own?	<b>+</b> 901
	b. Rent or lease from others or use rent free?  (Exclude land used on an animal unit month (AUM) basis.)	902 <b>+</b> • —
	c. Rent to others?	905
2.	[Calculate item 1a + 1b - 1c.] Then the total acres operated are:	900
	Does this include the farmstead, all cropland, woodland, pasture land, wasteland, and government program land?	
	☐ YES - [Continue.] ☐ NO - [Make corrections, then continue.]	
The	e remaining questions in this survey refer to these [item 2] acres.	
3.	Of the total acres operated, how many acres are considered cropland, including	
	land in hay, summer fallow, cropland idle, cropland used for pasture and cropland in government programs?	
4.	Of the total acres operated, how many acres are in fruit?  (Include bearing and non-bearing acreage in trees, vineyards and bushes.)	803

1. What **target fruit crops** were on these [Section A, item 4] acres during the 2015 crop year? (**Exclude** new plantings and other plantings which are not yet bearing.)

OFFICE USE LINES IN TABLE	TABLE 001	LINE 99	199	
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	1	2	3	6	7	8
L	•	2	How many BEARING acres of [crop] did this	Were any herbicides, insecticides, fungicides, etc.	On what date did you complete harvest of your 2014 crop year	On what date did you complete harvest of your 2015 crop year
I N			operation have?	applied to this crop?	[crop]?	[crop]?
E	CROP	CROP CODE	ACRES	[YES = 1]	MM DD YY	MM DD YY
01			11	13	14	15
02			11 ·	13	14	15
03			11 ·	13	14	15
04			11 ·	13	14	15
05			11 ·	13	14	15
06			·	13	14	15
07			· <u> </u>	13	14	15
08			·	13	14	15
09			11 ·	13	14	15
10			11 ·	13	14	15
11			11 ·	13	14	15
12			11 ·	13	14	15
13			11 ·	13	14	15
14			11 ·	13	14	15
15			11 ·	13	14	15

#### **CALIFORNIA CROP CODES**

301	APPLES		GRAPES	330	KIWIFRUIT	341	PEARS
303	APRICOTS	424	RAISIN TYPE VARIEITES	331	LEMONS	342	PLUMS
305	AVOCADOS		(include all uses for	333	NECTARINES	343	PRUNES
312	CHERRIES, SWEET		Thompson Seedless variety)	334	OLIVES	349	TANGERINES
316	DATES	524	TABLE TYPE VARIETIES	435	NAVEL ORANGES		
318	FIGS	624	WINE TYPE VARIETIES	535	VALENCIA ORANGES		
320	GRAPEFRUIT			340	PEACHES		

B FRUIT ACREAGE B

L I N E		CAL – EPA SITE LO (if req	DCATION NUMBER	
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15	 			 

#### **INCLUDES AND EXCLUDES**

Ī	INCLUDE:	EXCLUDE:
	TARGET CROPS ONLY.	All crops grown in another state.
	All commercial acreage equal to or greater than one tenth of a bearing acre.	Non-commercial orchard and vineyard acreage (home garden).
	All bearing acreage for processing or fresh market.	All TARGET CROPS grown by institutional, experimental, research and university farms.
	All bearing acreage for roadside stands, farmer's markets or U-pick sales.	Non-target fruits.
	Bearing acreage not harvested due to weather, economic or other reasons.	Abandoned orchards and vineyards.
	Crops planted in the fall of 2014 if they were part of the 2015 crop.	New plantings and other plantings which are not yet bearing.

B FRUIT ACREAGE B

1. What **target fruit crops** were on these [Section A, item 4] acres during the 2015 crop year? (**Exclude** new plantings and other plantings which are not yet bearing.)

	T4015
	TABLE
	001
	E USE N TABLE
LINE 99	199

			T	T
	1	2	3	6
LINE	CROP	CROP CODE	How many BEARING acres of [crop] did this operation have?	Were any herbicides, insecticides, fungicides, etc. applied to this crop?
			ACRES	[YES = 1]
01			·	13
02				13
03			11 ·	13
04			11	13
05			11	13
06			11	13
07			11	13
08			11	13
09			11	13
10			11	13
11			11	13
12			11	13
13			11	13
14			11	13
15			11	13

NOTES:

#### **INCLUDE**

- TARGET CROPS ONLY.
- All commercial bearing acreage equal to or greater than one tenth of an acre.
- All bearing acreage of TARGET CROPS for processing or fresh market.
- All bearing acreage of TARGET CROPS for roadside stands, farmer's markets or U-pick sales.
- Bearing acreage not harvested due to weather, economic or other reasons.
- Crops planted in the fall of 2008 if they were part of the 2009 crop.

#### **EXCLUDE**

- All crops grown in another state.
- Non-commercial orchard and vineyard acreage (home garden).
- · Non-target fruits.
- New plantings and other plantings which are not yet bearing.
- ALL TARGET CROPS grown by institutional, experimental, research and university farms (abnormal farms).
- Abandoned orchards and vineyards.

#### **WASHINGTON CROP CODES**

301	APPLES	622	GRAPES, JUICE
309	BLUEBERRIES	624	GRAPES, WINE
312	CHERRIES, SWEET	341	PEARS
314	CHERRIES, TART	345	RASPBERRIES

### **FERTILIZER APPLICATIONS**

#### **Enumerator Note---**

If column 4 of the table in Section **B** is YES for any crops, continue with item 1. If column 4 of the table in Section **B** is NO for all crops, go to Section, page 10.

 I need to record complete information on all commercial fertilizers applied to the bearing acres of target fruit grown during the 2015 crop year. Include all applications regardless of how they were applied (irrigation water, foliar applications, etc.). [Record amount of analysis of fertilizers applied or pounds of actual plant nutrients applied. Complete the table below (and any necessary supplemental fertilizer tables). Exclude micronutrients, lime, and gypsum.]

OFFICE USE LINES IN TABLE 001 299
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	1	2	3	4	5	6	7	8	9	10
LINE	0000	CROP	N I T R O G E N	P H O S P H A T E	P O T A S H	S U L F U R	How much was applied per acre per application?  [Leave this column blank if actual nutrients were reported.]	UNIT CODES  1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	How many acres was this applied to?  [Include bearing acres only]	How many times was it applied?
	CROP	CODE	<b>N</b>	<b>P<sub>2</sub>0</b> <sub>5</sub>	<b>K<sub>2</sub>0</b>	<b>S</b>	00	37	ACRES	NUMBER 41
01			31	32	33	34	36	31	40	41
02			31	32	33	34	36	37	40	41
03			31	32	33	34	36	37	40	41
04			31	32	33	34	36	37	40	41
05			31	32	33	34	36	37	40	41
06			31	32	33	34	36	37	40	41
07			31	32	33	34	36	37	40	41
08			31	32	33	34	36	37	40	41
09			31	32	33	34	36	37	40	41
10			31	32	33	34	36	37	40	41
11		l l	31	32	33	34	36	37	40	41
12			31	32	33	34	36	37	40	41
13		l l	31	32	33	34	36	37	40	41
14			31	32	33	34	36	37	40	41
15			31	32	33	34	36	37	40	41
16			31	32	33	34	36	37	40	41
17			31	32	33	34	36	37	40	41

			_	_	_	_	_		_	
L I N E	1 CROP	CROP CODE	3 N I T R O G E N	4 P H O S P H A T E	5 P O T A S H	6 SULFUR	How much was applied per acre per application?  [Leave this column blank if actual nutrients were reported.]	1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	How many acres was this applied to?  [Include bearing acres only]	How many times was it applied?
	CROP	CODE	31	32	33	34	36	37	40 ACRES	41
18							•		•	
19			31	32	33	34	36 ·	37	·	41
20			31	32	33	34	36	37	40	41
21			31	32	33	34	36	37	40	41
22			31	32	33	34	36	37	40	41
23			31	32	33	34	36	37	40	41
24			31	32	33	34	36	37	40	41
25			31	32	33	34	36	37	40	41
26			31	32	33	34	36	37	40	41
27			31	32	33	34	36	37	·	41
28			31	32	33	34	36	37	40	41
29			31	32	33	34	36	37	40	41
30			31	32	33	34	36	37	40	41
31			31	32	33	34	36	37	40 ·	41
32			31	32	33	34	36	37	40	41
33			31	32	33	34	36 ·	37	40	41
34			31	32	33	34	36	37	40	41
35			31	32	33	34	36	37	·	41
36			31	32	33	34	36	37	·	41
37			31	32	33	34	36 ·	37	·	41
38			31	32	33	34	36	37	·	41
39			31	32	33	34	36	37	·	41
40			31	32	33	34	36	37	40	41

D

## **PESTICIDE APPLICATIONS**

D

Now I have some questions about pesticide and chemical applications to your **bearing fruit acreage** before harvest. Please consider all applications made to trees, vineyards or bushes which occurred **after last season's harvest.** 

1.	Since last year's (2014) harvest, did you use <b>herbicides</b> on any of your bearing fruit acreage?	☐ YES	□NO
2.	Since last year's (2014) harvest, did you use <b>insecticides</b> , <b>nematicides</b> or <b>miticides</b> on any of your bearing fruit acreage?	☐ YES	□NO
3.	Since last year's (2014) harvest, did you use any <b>fungicides</b> on any of your bearing fruit acreage?	☐ YES	□NO
4.	Since last year's (2014) harvest, did you use any other chemicals such as chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, soil fumigants, etc. on any of your bearing fruit acreage?	☐ YES	□NO
5	[FNIMERATION ACTION: If ALL items 1 – 4 are NO go to Section F, page 14: else continue]		

[ENUMERATOR NOTE: If pesticides were reported in Section B, column 6, continue. Otherwise, skip to Section E.]

6. Now I need to get complete information on all of the chemicals applied, including applications made by you and/or by custom applicators during the 2015 crop year to each of the target fruit crops you grew. Let's start with the first application to your [crop] since the 2014 crop year harvest.

[Complete the table for all chemical applications to the target fruit crops. Use supplemental tables if necessary.]
(Include herbicides, insecticides, nematicides, miticides, fungicides, chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, and soil fumigants. Exclude seed treatments, foliar applications of nutrients, and applications made to fruits after harvest.)

			OFFIC LINES II	E USE N TABLE	TABLE	001	Sine 399 99 99
CHEMICAL PRODUCT NAME	L I N E	1 CROP	2 CROP CODE	What prowers ap to the [a	plied rop]?	4 Was this product bought in liquid or dry form?	5 Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]
	01			61	•		63
	02			61			63
	03			61			63
	04			61			63
	05			61			63
	06			61			63
	07			61			63
	08			61			63
	09			61			63
_	10			61			63
	11			61			63
	12			61			63
	13			61			63
	14			61			63
	15			61			63

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

#### **CODES FOR COLUMN 8**

1 POUNDS	30 GRAMS
12 GALLONS	40 KILOGRAMS
13 QUARTS	41 LITERS
14 PINTS	46 SPIRALS
15 OUNCES, LIQUID	47 PACKETS
28 OUNCES, DRY	50 OTHER (Specify:)

	6 <b>C</b>	<b>DR</b> 7	8	9	10	11
L I N E	How much was applied per acre per application?	What was the total amount applied per application?	[Enter unit code from above.]	What percent of the rows were covered?  100 All Rows 50 Every Other Row Other	How many acres were treated with this product? [Include bearing acres only.]	When was it applied?
			CODE	[Enter percent covered.]	BEARING ACRES	MM DD YY
01	65 ·	73	74	75		83
02	65	73	74	75		83
03	65	73	74	75		83
04	65	73	74	75	77 ·	83
05	65	73	74	75	77 ·	83
06	65	73	74	75		83
07	65	73	74	75		83
08	65	73	74	75		83
09	65	73	74	75		83
10	65	73	74	75		83
11	65	73	74	75		83
12	65	73	74	75	77	83
13	65	73	74	75	77	83
14	65	73	74	75		83
15	65	73	74	75	77	83

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

[ENUMERATOR ACTION: If pesticides were reported in Section B, column 5, continue. Otherwise, skip to Section E.]

6. Now I need to get complete information on all of the chemicals applied, including applications made by you and/or by custom applicators during the 2015 crop year to each of the **target vegetable crops** you grew. **Let's start with the first application to your** [*crop*] **since the 2014 crop year harvest.** 

[Complete the table for all chemical applications to the target vegetable crops. Use supplemental tables if necessary.]
(Include herbicides, insecticides, nematicides, miticides, fungicides, chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, and soil fumigants. Exclude seed treatments, foliar applications of nutrients, and applications made to vegetables after harvest.)

**OFFICE USE** 

TABLE 399

				LINES IN TABLE	001	
		1	2	3	4	5
	L N E	·	2	What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?  [If tank mix, enter line number
CHEMICAL PRODUCT NAME		CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	line number of first product in mix.]
	01			61		63
	02			61		63
	03			61		63
	04			61		63
	05			61		63
	06			61		63
	07			61		63
	08			61		63
	09			61		63
	10			61		63
	11			61		63
_	12			61		63
	13			61		63
	14			61		63
	15			61		63

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	irade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

#### **CODES FOR COLUMN 8**

1 POUNDS	30 GRAMS
12 GALLONS	40 KILOGRAMS
13 QUARTS	41 LITERS
14 PINTS	46 SPIRALS
15 OUNCES, LIQUID	47 PACKETS
28 OUNCES, DRY	50 OTHER (Specify:)

L I N E	6 O  How much  was applied  per acre  per application?	What was the total amount applied per application?	8 [Enter unit code from above.]	What percent of the rows were covered?  100 All Rows 50 Every Other Row Other	How many acres were treated with this product? [Include bearing acres only.]  BEARING ACRES	11 How many times was it applied?
	65	73	74	[Enter percent covered.] 75	77	79
01	·	73	74	75	·	79
02	·	·	74			79
03	65 ·	73	74	75		79
04	65	73	74	75		79
05	65	73	74	75		79
06	65	73	74	75		79
07	65	73	74	75		79
08	65	73	74	75		79
09	65	73	74	75		79
10	65	73	74	75		79
11	65	73	74	75		79
12	65	73	74	75	77	79
13	65	73	74	75		79
14	65	73	74	75		79
15	65	73	74	75	·	79

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA No.

CHEMICAL   PRODUCT NAME   CROP   CENTER PRODUCT NAME   CROP   CROP   CROP   CROP   CROP   CROP   CENTER PRODUCT NAME   CROP   CROP   CROP   CROP   CROP   CROP   CENTER PRODUCT NAME   CROP   CROP   CROP   CROP   CROP   CROP   CENTER PRODUCT COde   CROP   CROP						
16       61       63         17       61       63         18       61       63         19       61       63         20       61       63         21       61       63         22       61       63         23       61       63         24       61       63         25       61       63         26       61       63         27       61       63         28       61       63         29       61       63         30       61       63         31       61       63         32       61       63	CHEMICAL PRODUCT NAME	I N	CROP	What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?  [If tank mix, enter line number of first product
17       61       63         18       61       63         19       61       63         20       61       63         21       61       63         22       61       63         23       61       63         24       61       63         25       61       63         26       61       63         27       61       63         28       61       63         29       61       63         30       61       63         31       61       63         61       63       63		10			[=:::0: = 0: =:]	
17       61       63         19       61       63         20       61       63         21       61       63         22       61       63         23       61       63         24       61       63         25       61       63         26       61       63         27       61       63         28       61       63         29       61       63         30       61       63         31       61       63         61       63       63		16		64		62
18     61     63       20     61     63       21     61     63       22     61     63       23     61     63       24     61     63       25     61     63       26     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       61     63     61       63     61     63		17		01		63
19     61     63       21     61     63       22     61     63       23     61     63       24     61     63       25     61     63       26     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       32     61     63		18		61		63
20     61     63       21     61     63       22     61     63       23     61     63       24     61     63       25     61     63       26     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       63     61     63		19		61		63
21     61     63       23     61     63       24     61     63       25     61     63       26     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       32     61     63		20		61		63
22 61 61 63 63 63 61 61 63 63 63 61 61 63 63 61 61 63 63 61 61 63 63 61 61 63 63 61 61 61 61 61 61 61 61 61 61 61 61 61		21		61		63
23       24       25       61       26       61       63       27       61       63       28       61       63       29       61       63       30       61       63       31       61       63       61       63       61       63       61       63       61       63		22		61		63
24     61     63       26     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       32     61     63		23		61		63
25     61     63       27     61     63       28     61     63       29     61     63       30     61     63       31     61     63       32     61     63       63     63     63		24		61		63
26       27       61       28       61       63       29       61       63       30       61       63       31       61       63       61       63       61       63       61       63       61       63		25		61		63
27     61     63       29     61     63       30     61     63       31     61     63       32     61     63       61     63     63		26		61		63
28       29       30       61       63       31       61       63       61       63       61       63       61       63		27		61		63
29       30       61       63       31       61       63       61       63       61       63       61       63		28		61		63
30 61 63 63 63 64 65 65 65 65 65 65 65 65 65 65 65 65 65		29		61		63
31 61 63 63 63 63 63 63 63 63 63 63 63 63 63		30		61		63
32 61 63 63 63		31		61		63
61 63				61		63
				61		63

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.
			<u> </u>	

## **PESTICIDE APPLICATIONS**

#### **CODES FOR COLUMN 8**

1	POUNDS	30	GRAMS
12	GALLONS	40	KILOGE

13 QUARTS 14 PINTS

15 OUNCES, LIQUID

28 OUNCES, DRY

RAMS

41 LITERS

46 SPIRALS

47 PACKETS

50 OTHER (Specify:

D

	6 <b>O</b>	<b>R</b> 7	8	9	10	11
L I N E	How much was applied per acre per application?	What was the total amount applied per application?	[Enter unit code from above.]	What percent of the rows were covered?  100 All Rows 50 Every Other Row Other	How many acres were treated with this product? [Include bearing acres only.]	How many times was it applied?
			CODE	[Enter percent covered.]	BEARING ACRES	NUMBER
16	65 ·	73	74	75		79
17	65	73	74	75		79
18	65	73	74	75		79
19	65	73	74	75	77	79
20	65	73	74	75	77	79
21	65	73	74	75	77	79
22	65	73	74	75	77	79
23	65	73	74	75	77	79
24	65	73	74	75	77	79
25	65	73	74	75	77	79
26	65	73	74	75	77	79
27	65	73	74	75	77	79
28	65	73	74	75	77	79
29	65	73	74	75	77	79
30	65	73	74	75	77	79
31	65	73	74	75	77	79
32	65	73	74	75	77	79
33	65	73	74	75	77	79

[For pesticides not listed in Respondent Booklet, specify---]

**Trade Name** 

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA No.

## **PEST MANAGEMENT PRACTICES**

Ε

Now I have some questions about pest management practices you may have used on any of the **total fruit acres** on this operation. (*Include bearing and non-bearing acreage of both target and non-target fruit crops grown.*) By pests, we mean insects, weeds, and diseases.

	Tes - [Continue.]	☐ <b>No</b> - [Go to item 5.]		
				CODE
1.	Was weather data used to assist in when to make pesticide application	determining either the need or s?	YES = 1	600
2.	Were any biological pesticides sucl	n as Bt ( <i>Bacillus thuringiensis</i> ).		
	insect growth regulators (Courier, in		YES = 1	601
3.	Were pesticides with different mech	nanisms of action rotated or tank		
0.	mixed for the primary purpose of ke		YES = 1	602
4.	In 2015, how were your	By deliberately going to the fruit acres specifically for scouting activities. (Enter code 1 and go to item 6.)		
	fruit acres primarily scouted for insects, weeds, diseases	2 By conducting general observations while performing routine tasks. ( <i>Enter code 2 and go to item 8.</i> )		608
	and/or beneficial organisms?	3 The fruit acres were not scouted. (Enter code 3 and go to item 11.)		
5.	Was an established scouting proce recording counts, insect traps, etc.)	ss used (s <i>ystemic sampling,</i> on any fruit acres?	YES = 1	609
6.	Was scouting for pests done on the	ese fruit acres due to		
	a. a pest advisory warning?		YES = 1	610
	a. a post dariour, naming		12321	611
	b. a pest development model?		YES = 1	

	PEST WANA	AGEMENT	PRACTICES	
	1		[If column 1 is YES Who did the ma of the scouting for [6	jority
7.	Were your fruit acres scouted for	YES = 1	1 Operator, partner or family m 2 An employee 3 Farm supply or chemical dea 4 Independent crop consultant  CODE	ember ler
	a. weeds?	612	614	
	b. insects or mites?	615	617	
	c. disease?	618	620	
8.	Were written or electronic records kept to track the	activity or	VES -	<b>CODE</b> 623

			CODE
8.	Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases?	YES = 1	623
9.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	YES = 1	624
10.	Was field mapping data used for making pest management decisions?	YES = 1	625
11.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	YES = 1	626
12.	Were crop residues (including drops, rotting fruit and/or debris) removed to manage pests?	YES = 1	627
13.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	YES = 1	629
14.	Were any beneficial organisms ( <i>insects, nematodes, fungi</i> ) applied or released to manage pests?	YES = 1	636
15.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any fruit acres?	YES = 1	637
16.	Were any fruit acres cultivated for weed control during the growing season?	YES = 1	640
17.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any fruit acres?	YES = 1	642
18.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	YES = 1	643
19.	Were any fruit acres irrigated for the 2015 crops?	YES = 1	644
	a. [If item 20 is YES, ask]		
	Were water management practices (excluding chemigation)		
	such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?	YES = 1	645

COMPLETION CODE for FERTILIZER APPLICATIONS		
1 Incomp/R 3 Valid Zero	200	

COMPLETION CODE for PESTICIDE APPLICATIONS		
300		

COMPLETION CODE for PEST MANAGEMENT PRACTICES				
1 Incomp/R	500			

### **MICROBIAL FOOD SAFETY PRACTICES**

_	
_	

Acres

The next few pages contain questions that ask about your operation's total produce acreage, in addition to the fruit covered previously, regardless of the state where that acreage is located. *Exclude* any acreage outside of the U.S. For the purposes of this part of the survey, produce **includes**: fruit, berries, vegetables, herbs, tree nuts, dry beans, peas and lentils, peanuts, sprouts, and mushrooms. These questions only ask about food safety practices with respect to microbial contamination.

1.	In 2015, how many acres or once even if multiple crops	•	•	produce? (Incl		only xxx	
2.	Including multi-cropped acre	•	-	-	•	xxx	
3.	What produce crops grown top five crops starting first w					re they sold? Re	eport the
	1	er Sales					
	Crop	Acres (include multi- cropped acres) (Number)	Direct-to- Consumer Sales (Percent)	4 Fresh market (Percent)	5 Fresh-cut market (Percent)	6 Processed market (Percent)	
Х	xxx	xxx	xxx %	xxx %	xxx %	xxx %	1000/
x	a.	xxx	XXX	XXX	XXX	XXX	100%
	b.		%	%	%	%	100%
Х	xxx C.	xxx	xxx %	xxx %	xxx %	xxx %	100%
х	XXX	xxx	xxx	xxx	xxx	xxx	10070
	d.		%	%	%	%	100%
Х	e.	xxx	xxx %	xxx %	xxx %	xxx %	100%
4.	Over the last three years, 20  xxx  1  Less than \$25,00  2  \$25,000 to \$249,  3  \$250,000 to \$499	999 5 \( \) \$1,00	,000 to \$999,999 ,00,000 to \$4,999,9 ,00,000 to \$9,999,9	7  \$10,00	00,000 to \$19,99	99,999 99,999	
[If	the value of sales reported	in Item 4 is less	than \$500,000, c	ontinue; otherv	vise go to Item	6]	
5.	Over the last three years, 20 food sales (including your proof for food or drink for humans	oroduce sales) les	s than \$500,000?	Food includes	articles used	xxx 1  Yes e Acres	з 🗌 No
6.	In 2015, how many of your of transition to become certifie				nic or in	xxx	
7.	In 2015, were <b>commercial</b>	livestock located a	adjacent to your p	roduce acreage	on land:		
	a. You operate? ( <i>Include</i> li	ivestock on your p	roduce acreage)			xxx <sub>1</sub> Yes 3	□ No
	b. Someone else operates	?				xxx ₁ □ Yes ₃	∏No

8. In 2015, which of the following activities were completed for your operation's produce and where were they done?

J. 11	1 20 13, Willett of the following activ	moo wore compi	Total of your operation	The produce and with	U. U. WUIC	and y done :			
	1 Activity		On your produce operation	3 Off your produce operation	Did you have an ownership interest in this activity?				
		YES = 1	YES = 1	YES = 1		YES = 1			
a.	U-Pick	xxx	xxx		xxx				
b.	Harvest	xxx	xxx		xxx				
C.	Field Pack	xxx	xxx		xxx				
d.	Pack (other than field pack)	xxx	xxx	xxx	xxx				
e.	Cool	xxx	xxx	xxx	xxx				
f.	Wash	xxx	xxx	xxx	xxx				
g.	Hold/Store/Warehouse	xxx	xxx	xxx	xxx				
h.	Fresh Cut	xxx	xxx	xxx	xxx				
i.	Other processing (freezing, canning, juicing)	xxx	xxx	xxx	xxx				
fo a	xcluding any direct-to-consumer s podservice, wholesalers, terminal r gent, marketer, etc.) sell for you? . To you have a food safety plan that	narkets, etc, inst	tead of letting anothe	er firm (shipper, sales		☐ Yes 3 ☐ No			
х	xx	No – Go to Item	12		xxx 1 [	∐ Yes 3			
	11. In 2015, did your food safety plan cover all of your produce commodities?  xxx 1 Yes – Go to Item 12 2 No – Continue  Plans								
a. H	ow many different food safety plar	ns did vou have f	for your produce con	nmodities in 2015?		xxx			
		•			- 2 <b>-</b>	L			
12. D	12. Did you have any third party food safety audits that covered your produce operation in 2015?								
X	1 ☐ Yes – Go to Item 13	3 ☐ No – Co	ontinue						
					N/A	Year (YYYY)			
	What was the most r     that covered your pro					XXX			

# **MICROBIAL FOOD SAFETY PRACTICES**

	Which of the following types of microbial third party food safety audits covered your produce operation in 2015?			
á	a. Produce farm/ranch (field) audit	xxx 1	☐ Yes	з 🗌 No
k	o. Produce harvesting crew	xxx 1	Yes	з 🗌 No
C	c. Produce packinghouse		☐ Yes	з 🗌 No
C	d. Produce cooler		☐ Yes	з 🗌 Nо
(	e. Other (Specify: xxx)	xxx 1	Yes	з 🗌 No
	How many of the following types of third party food safety audits covered your produce operation 2015?	n in		
-		None	Nu	mber
а	. Global Food Safety Initiative benchmark audit (Primus GFS, Safe Quality Food (SQF), Global Gaps, Canada Gap, British Retail Consortium (BRC))		xxx	
b	Other general private audit that is not benchmarked to the Global Food Safety Initiative (Primus, AIB, SCS, etc.).		xxx	
С	. Addendum to standard audit for a particular buyer or processor		xxx	
d	. Stand-alone buyer-specific audit you pay for (excluding addendum)		xxx	
е	. California or Arizona Leafy Greens Marketing Agreement audit		xxx	
f.	California Cantaloupe Advisory Board food safety standard audit		xxx	
g	. Tomato Food Safety Audit Protocol		xxx	
h	. USDA audit service which may be administered by a State Department of Agriculture (GAP's, GHP's, Harmonized Gaps, or others)		xxx	
i.	Other (Specify: XXX)		xxx	
			Dollar	's
ŗ	What was the total amount you paid for the third party food safety audits that covered your produce operation in 2015? ( <i>Include</i> costs of belonging to CA and AZ LGMA and the CA Cantaloupe Advisory Board. <i>Exclude</i> the costs of preparing for audits and the costs of molementing changes afterwards. <b>Exclude</b> organic certification audits)	xx	<b>(</b>	

F

16. Which of the following types of water were used during the production, harvest, and post-harvest activities of your operation's produce in 2015? Use the response codes listed in the table at the bottom of the page.

	1		2	3	4	5
	Water Use	YES = 1	What was the largest source (in terms of volume) of water used for this activity?  (See column 2 code below)	How often did you test the water from this source in 2015 for microbial content (generic <i>E. coli</i> or other indicator)? If code 7 or 8, go to column 5.  (See column 3 code below)	What water standard did you consider acceptable?  (See column 4 code below)	What did you use to treat this water in 2015?  (See column 5 code below)
that <b>doe</b> harveste	sed during production s not touch the d part of the crop drip, flood irrigation,	xxx	xxx	xxx	xxx	xxx
that <b>touc</b> part of th irrigation	sed during production ches the harvested he crop (overhead ; pesticide/fungicide ons; frost protection,	xxx	xxx	xxx	xxx	xxx
post-har (includin water <b>to</b> a food co (hydratin produce;	sed for harvest and vest activities g packing) where uches the produce or ontact surface ig, washing or cooling cleaning food surfaces on tools or ry)	xxx	xxx	XXX	XXX	xxx

	RESPONSE CODES											
	Column 2	Column 3	Column 4	Column 5								
Water Source Code		Frequency of Testing During 2015 Code	Water Test Standard Code	Water Treatment Code								
(poi 2 Flov can ditc 3 Gro 4 Pub pota 5 Trea 6 Rec 7 Dor	anding surface water ands, lakes, reservoirs) wing surface water (rivers, hals, streams, irrigation ches) bund water (wells) blic water system with able water eated waste water claimed tail water n't know her: (Specify:	1 Once a year 2 Once every four months 3 Once every three Months 4 Once every two months 5 Once every month 6 More often than once a month 7 Water is never tested 8 N/A – Rely on someone else's tests of this operation's water 9. Don't know 10 Other: (Specify:	1 Normal or expected range based on historic water samples 2 EPA Recreational Water Standard (1986 or 2012 standard) 3 Leafy Greens Marketing Agreement (LGMA) standard for water that does not touch the harvested part of the crop 4 Maximum of 1,000 <i>E. coli</i> CFU/mL 5 Maximum of 500 <i>E. coli</i> CFU/mL 6 EPA drinking water standard which is no generic <i>E. coli</i> 7 Reclaimed water standard 8 Don't know 9 Other: (Specify:	1 Chemical 2 Ultra violet light 3 Filtration 4 N/A – didn't treat 5 Don't know 6 Other (Specify:)								

### **MICROBIAL FOOD SAFETY PRACTICES**

F

Number

XXX

1 ☐ Yes 3 ☐ No

[If water tests were reported in Item 16, column 3 (codes 1, 2, 3, 4, 5, 6, 10), or water treatments in column 5 (codes, 1, 2, 3, 6) continue; otherwise go to Item 20]

For Items 17, 18, and 19, please consider all of the water sources used on your produce operation, not just the largest source of water.

17. How many total water tests for microbial contamination were conducted, or do you expect to have, conducted, on your produce operation in 2015? ( <i>Include</i> all tests on <b>all</b> water sources)									
con	tamination on your produce opera	ation in 2	<b>all</b> water sources conducted for m 015? ( <i>Include</i> lab costs, material o	costs (vials, etc.),	Dollars				
labe	or, and transportation costs.)			None	Dollars				
			treatments? Include supplies, oth		xxx				
	·		ducts applied to the produce acrea		n 2015?				
	1		2	3					
	Manure Product	YES = 1	Is the compost made using a method validated by a scientifically recognized, controlled microbial process that is actively managed and meets time/temperature requirements from EPA?	What documentation do you have indicate the microbial content of you manure products or the process us to produce it?					
a.	Composted manure made on your farm	xxx	1 Yes  XXX 3 No 2 Don't know	Check all that apply  xxx					
b.	Composted manure purchased from others	xxx	xxx  1  Yes 3  No 2  Don't know	xxx  Time/temperature measurements xxx  Microbial testing results xxx  Certificate of Conformance xxx  Certificate of Analysis xxx  Approved by an organic certifying agent xxx  Other xxx  None					
C.	Manure treated with a physical or chemical process (pasteurization, heat drying, alkali stabilization, etc.)	XXX		xxx  Time/temperature measurements xxx  Microbial testing results xxx  Certificate of Conformance xxx  Certificate of Analysis xxx  Approved by an organic certifying agent xxx  Other xxx  None					
d.	Decomposed manure (stored or aged in stacks)	xxx		xxx Microbial testing xxx Other xxx None	g results				
e.	Raw manure	xxx		xxx	g results				
	·			<del></del>					

21. In 2015, was a pre-harvest assessment of the produce acres done within 3 days of harvest

in order to identify potential microbial contamination problems?....

_F	MICROBIAI	_ F00I	SAFETY P	RACTICES	F						
22.	How many days long was the produce harve	est seaso	n in 2015?		XXX						
23.	In 2015, did this operation pack or package a	any produ	ce?								
	xxx 1 Yes - Continue 3 No – Go to It	tem 24			Days						
	a. How many days long was the produce page	<b>cking</b> sea	son in 2015?		xxx						
b. In 2015, did this operation pack or package produce in the field?											
	c. In 2015, did this operation pack or packa	ge produc	e in a packing hou	use or packing shed?							
	xxx 1  Yes – Continue 3  No – Go	o to item 2	24								
	<ul> <li>d. Which of the following best describes the structures where this operation packed or packaged fresh produce in 2015? (Check all that apply)  xxx  1 A floor, such as a concrete slab, driveway, parking lot, etc.  2 A roof and a floor, such as a concrete slab  3 A floor, roof, and some walls or screening but not an enclosed structure  4 Enclosed structure with openings, such as unscreened doors or windows  5 Completely enclosed structure</li> </ul>										
	6 Other (Specify: xxx	<del> </del>		)							
24.	Which of the following types of items that too operation? How often were the items cleane crop was custom harvested or packed by so	d and san	itized? <i>Exclude</i> it	015 season were used ems used during harv	d on this produce est or postharvest if this						
	1		2	3	4						
			How often is this item <b>cleaned</b> ?	How often is this item sanitized (disinfected)?	Does this item contain any food contact surface made of foam, paper, cardboard,						
	Item that TOUCHES the crop		[Use Frequency Code table below]	[Use Frequency Code table below]	wood, carpeting, or canvas?						
		YES = 1	(Code)	(Code)							
	Tools used for harvesting and/or field packing	xxx	xxx	xxx	xxx 1 Yes 3 No 2 Don't know						
	<ul> <li>Machinery used for harvesting and/or field packing</li> </ul>	xxx	xxx	xxx	xxx 1 Yes 3 No 2 Don't know						
	c. Tools used during packing or handling in a packing house	xxx	xxx	xxx	XXX 1 Yes 3 No 2 Don't know						
	d. Fixed machinery and work surfaces in post- harvest handling (mechanical sorter, work surface, dunk tanks, flumes, etc.)	xxx	xxx	xxx	xxx 1 Yes 3 No 2 Don't know						

Frequency Code									
1 - Daily	2 - Weekly	3 - Monthly	4 - Once a season	5 - N/A	6 - Never	7 – Other: (Specify)			

XXX

XXX

xxx

XXX

xxx

XXX

Reusable containers or bins used during

Reusable containers or bins used **only** to

transport the crop from the field to a packinghouse

harvest

xxx 1 Yes
3 No
2 Don't know

3 No 2 Don't know

xxx ₁ ☐ Yes

E

## **MICROBIAL FOOSD SAFETY PRACTICES**

					Non	e	Dollars
	015, what will be the total					]	xxx
	supplies and labor				<del></del> '	L	
	015, did your operation had safety?	ave a des	signated person	with the primary respo	onsibility for microbial		
xxx	1 Yes - Continue 3	□ No – 0	Go to Item 27				
							Percent
							«хх
a. \	What percent of this pers	on's daily	time was spent	on food safety in 201	5?		
	015, how many other peo						Number
	ety staff? <b>Exclude</b> managare not primarily respons						«хх
	olved in food quality or qu						
[If Item 2	?7 equals zero, go to Ite	m 28; otl	herwise continu	ıe.]			Number
	Of the (item 27) people or					al 7	ххх
f	food safety during the sea	ason?					
28 In 20	015, did you hire an outsi	de microl	hial food safety o	consultant to develop	or implement x	xx	
	d safety plan?					_	Yes 3 No
29. Whi	ch of the following types	of people	were used to ha	arvest produce on you	r operation in 2015?		
	1		2	3	4		5
	'		How many of	How many of these	What was the	Wha	at were the total
			these people	people were trained	average number of	trainir	ng costs for visual
			were used to harvest produce	on microbial food safety by your	minutes of microbial food safety training		ids, signage, books, software
			on your	operation in 2015? If	that your operation		ages, and hired
	People		operation in	contract crews are	provided for these	traine	rs (instead of your
	. 664.6		2015?	trained by someone else, exclude them.	people in 2015?		taff trainers), etc. these people?
							e costs to instruct
				[If zero, go to			omers at u-pick
				column 5]			tions about safety on your operation.
		YES = 1	(Number)	(Number)	(Number)		(Dollars)
a. (	Customer	xxx	xxx	xxx	xxx	xxx	,
	(e.g. Pick-your-own)						
	Unpaid labor including	xxx	xxx	xxx	xxx	xxx	
f	family and volunteers						
c. I	Direct hire	XXX	xxx	xxx	xxx	XXX	
-d (	Contract harvest area	xxx	xxx	xxx	xxx	xxx	

3

For how many days were these

facilities provided to people

30. During the 2015 produce harvest season, did your operation provide toilets or handwashing sinks within one-quarter mile of the produce field for those harvesting produce? *Include* portable facilities in the field, access to facilities in nearby buildings, and facilities for u-pick operations.

During the 2015 produce harvest season,

how many of each facility were provided

	Facility		to harvesters within one-quarter mile of the produce field?	harvesting produce?							
		YES = 1	(Number)	(Number)							
	a. Toilet/Port-a-potty	xxx	xxx	xxx							
	b. Hand washing sink	xxx	xxx	xxx							
31.	Which of the following met runoff into the produce fie  xxx  Ditch  xxx  Berm  xxx  Vegetative buffer st  xxx  Retention system o  xxx Drainage system  xxx Other (Specify: xxx_	elds in 2015?(		potential of uncontrolled water							
32.	32. In 2015, did you monitor your field to check for potential animal intrusion?										
33.	Which of the following met produce fields in 2015? C		ed on your produce operation to reduce pot oply.	ential animal intrusion into the							
	xxx Put up fencing around the fields xxx Put up fencing around standing surface water xxx Remove animal harborage and attractants (removing excess brush, old equipment, and cull piles) xxx Trap or shoot animals xxx Employ animal deterrents such as noise makers (including gunfire), Mylar strips, fake owls or coyotes, and repellants xxx Clear a buffer zone around your field to increase your ability to detect animal intrusion xxx Other (Specify: xxx										
34.	Have you heard of the Footxxx  1 ☐ Yes - Continue		ernization Act (FSMA) Proposed Rule for Proposed	oduce Safety?							
35.	Which of the following sou Rule for Produce Safety?		used for information on the Food Safety Mo apply.	dernization Act (FSMA) Proposed							
	xxx Produce/agricultura xxx The FSMA legislatic xxx FDA listening sessic xxx Produce Safety Allic xxx University training/e xxx Commodity organiz xxx Neighbors or other xxx Other (Specify: xxx	on or proposed ons, public me ance extension/educ ation training/e	etings, webinar, or FSMA website ation meetings								

## **CONCLUSION**

#### **SURVEY RESULTS**

1. To red													CODE
		.gov/results t a later date								YES	S = 1	990	
[Thank the respondent, then review this questionnaire.]													
ENDING '	ENDING TIME [MILITARY]										_	05	
												-	FICE USE IN HOURS
												006	·
SUPPLE	SUPPLEMENT USE												
Record the total number of supplements used to complete this interview.										NUMBER			
Fertilizer Supplements											067		
Pesticide Supplements										_	068		
						9910			9911				
Reported	by:						1 D D		Tele	phone:			
Resr	onse	Respon	dent	Mod	e	Enum	Eval	Date MM DD	YY	R Unit	Chan	ae	Optional
1-Comp	9901	1- Op/Mgr	9902	2-Tel	9903	9998	9900	9910		9921	9985	_	9906
2-R		2-Sp		3-Face-to -									
3-Inac		3-Acct/Bkpr 4-Partner		Face							ice Use f	or PC	D
4-Office Hol	t	9-Other							15	99789			
S/E Name									_ 13				<u>- — — — </u>