1933

Mr. Chas. Detterding, Manager County of Sacremento.

I submit herewith my annual report covering the activities of the office of the County Agricultural Commissioner of Sacramento County for the year 1933.

The protection to agriculture from the introduction and spread of injurious insects and plant diseases is of primary importance and was given careful attention during the past year. 3648 Shipments containing 863,461 parcels originating outside California were inspected and permitted delivery. An additional 60 shipments containing 14305 parcels were rejected for either being infected with plant pests or for having been shipped in violation of a plant quarantine. The total number of shipments inspected was slightly less than in 1932 with a difference of fifty one.

Intrastate shipments of fruit trees for planting in Sacramento County showed a decided decline with a total of 29,347 as compared with 72,793 for 1932. Ornamental stock showed a similar decline with 252,653 plants inspected in 1933 as compared with 550,014 for 1932.

Berries on the other hand showed an increase from 14151 in 1932 to 59803 in

PLANT DISEASES

Pear Blight was not as severe as in past years although damage to many orchards occured during late summer after the removal of the crop. Pear trees removed during the year will approximate 25000 trees.

Inspections of sugar beet plantings showed a general infestation of Southern rot in fields close to the city of Sacramento, spotted infestations in the upper delta and with no disease being located in the lower delta. Shipments of beets required the careful attention of none inspector during the loading period due to presence of this disease.

FROST INJURY

The full effect of the freeze of December 1932 was not appreciated until the spring of 1933. The orange trees were the most severely damaged with tree losses of from 20 to 80% of individual orchards. Over one half of the citrus trees were rendered unfit for future commercial use. Very few trees produced fruit this season and no ornages for commercial use were in evidence. Normally 130 cars are required to move the orange crop. A limited production is expected for 1934 and it is doubtful if it will exceed 10% of the oranges formerly harvested.

Olives, were also badly damaged particularly the manzanillo variety which suffered a heavy loss of wood from freezing and also from the olive knot which followed the bark injuries causing additional losses. The total olive production was cut to less than 20% of normal.

Winter vegetables also suffered with the heaviest loss occuring to the celery fields. Vegetable stecklings, particularly beets, were injured while the carrots showed the best recovery. Market carrots, however, were rendered unmarketable due to their unfitness for table use.

RODENTS

Lack of adequate funds prevented the carrying out of general rodent control work although an increase in requests for assistance was noted as a result of the increase in rodent population. A substantial increase was also shown in the amount of rodent control material distributed which exceeded that of 1932 by 1268 lbs of poison grains and 170 Gals. of bi sulphide

BIRDS

Disbudding of trees, particularly prunes, almonds and apricots by birds has been giving concern to orchardists. This damage has been due mainly to linnets and control measures against this particular bird was supervised in the orchards where damage occured and where assistance was requested. Gamble sparrows destroying newly planted alfalfa checks were also brought to our attention. Control measures applied resulted in the known destruction of 771 linnets, 137 gamble sparrows and 70 english sparrows. The dead birds picked up were all destructive species and are without doubt only a small percentage of those actually killed. This work was handled only on

2

nine ranches. Personal supervision was given to the placing of the poison so that loss of beneficial birds could be avoided.

STANDARDIZATION

Sacramento County produces and ships fresh fruit or vegetables every month in the year. The total shipments for 1933 amounted to 8,966 cars which is 1116 cars less than in 1932. The more important decreases were: Lettuce, 550 cars, following the disasterous prices received in 1932 plantings were curtailed together with some loss resulting from the hot fall of 1933: Pears,174 cars, due to an exceptionally heavy cannery delivery which more than offset the difference; asparagus, 417 cars due to growing and market conditions.

Strawberry shipments on the other hand were increased by 31 cars or a total of 279 cars which is the heaviest car movement on record for this county, making Sacramento the leading Strawberry shipping county in the State. Grape shipments were increased by 270 cars and tomatoes by 147 cars.

Carload shipments arriving at Sacramento totaled 2347 as compared with 2626 for 1932. This difference was partially made up through increased truck movement.

Inspections made for substandard fruits and vegetables resulted in 202 lots, consisting of 12,633 packages, being rejected.

The Sacramento market is the distributing point for a considerable territory including areas of Oregon, Idaho, and Nevada. During the year 2804 inspectons were made and clearances issued on trucks moving into the adjoining states. Two wholesale market centers are now in operation here to take care of this distribution.

INSECTS

The codling moth injury to pears was greater then last season and considerable loss was suffered by growers from this insect. Spray residue regulations issued by the United States Department of Agriculture requiring that residues of arsenate and lead be eleminated has complicated the situation. Acid washing equipment has now been made an integral part, of packing shed equipment. Thirty eight power washers were in operation during 1933 in this county. An inexpensive home made washer suitable for handling small lots of pears was developed from suggestions furnished by this office and was extensively used in the

0

smaller pear producing areas.

All pear shipped from Sacramento County were thoroughly and satisfactory cleaned and no fruit was lost from seizures in markets of destination.

Incomming shipments of pears and apples were closely checked and lots showing residue were held up until properly cleaned.

The equipment in operation during 1933 demonstrated that the pears can be readily cleaned and should relieve the grower of his fear of fruit loss due to inability to remove residue and should stimulate more careful and thoroughly spraying in 1934. Unless sufficient sprays are applied to bing the moth under control. The growers may find it difficult to make cannery deliveries due to heavy losses from worms taken by the canner on the 1933 delivery.

APAIRY INSPECTION

Apiary inspection work has been held down to a minimum due to insufficient funds to adequately cover this work. Apiaries registered during the year totaled 93 which was and increase of 29 over 1932. The total hives registered for 1933 however was only 2837 being 1097 less than 1932. A large number of shipments of queens and package bees was made by a local apiary whose customers were located throughout the United States. A total of 5940 queens were distributed, during the year.

Respectfully submitted .

Agricultural Commissioner

M. E. Morrison

Sacramento County

Elbrisomphilus con

Charles besteridum.

Lepidosaphie becki.

Annual Report County. From Jan. 1, 193 3, to Dec. 31, 193

PLANT	QUARANTINE	Interstate Sh	ipments Only
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le container.	MAII	BY BOAT OR RAIL	BY	CK AIR
(1) Number of Shipments Passed	ejected and balan	i Jusment r	10 non	Account to 1.17
(2) Number of Parcels Passed	innerit of i	MINERY D	tock.	troe view II (A)
(3) Number of Shipments Rejected or Destroyed	2526	793514	E 63	(5) List each sh
(4) Number of Parcels Rejected or Destroyed	wol tramedid 16	25	emi 32	(6) Count as A
SIND SHIPMINTS PL	FOUND CLEAN	COTTONSEI CONTAMINA		OTHERWISE CONTAMINATED
Number of Railroad freight cars inspected	trasiate quarant	rstate and L	in lute	(7) List here bot
of a quarantine regulation of order should be useed	FOUND CLEAN	CARI	RYING CO	NTRABAND
Number of Private railroad cars inspected	unnual report.	age of the	state p	on the intra

REASONS FOR REJECTIONS

(7) REJECTIONS (BOTH	BECAUSE OF INTERSTATE A	QUARANTINE VIOL IND INTRASTATE)	ATIONS	REJECTIONS BECAUSE OF PEST INTERCEPTED ON INTERSTATE SHIPMENTS ONLY				
Number of the State Quarantine Order, Circular, Regulation, or Section of State Quarantine Law Violated	(5) Number of Violations	Number of the Federal Quarantine Violated	Number of Violations	NAME OF PESTS INTERCEPTED	(6) NUMBER TIMES INTER	RCEPTED		
Ornamentals			946 - 1979	4 4 4 4 4	- 50/4 27 big			
u-rentine 3	2	48	1	Mematode (Pota o car	rs) 2	1		
Ballon Orland	2			True	cks 2	1 *		
6	1			(Newda Cars	20)			
7	1			(" Frucks	21)			
13	3		4.0	(Oregon cars	1)			
15	4			Nems code Ornamental	8	8		
				Pear root aphis		1		
			THE WAY	Gladiolus thrips		1		

* One truck also covered by quarentine rejection for violating quarentine No.

(OVER)

Annual Report County. From Jan. 1, 193, to Dec. 31, 193,

Inspection of Intrastate Shipments of Nursery Stock

with the second	NO. IN	SPECTED	NO. RE	JECTED	CAUSE OF REJECTION	
KIND	SHIPMENTS	PLANTS	SHIPMENTS	PLANTS	CAUSE OF REJECTION	
Deciduous Fruit Trees	232	27567	12	6166	sohis, gell, nome tode	
Subtropical Fruit Trees						
Citrus		1487				
Others	ă	343				
Berries		59803			•	
Grapes		6634				
Seedlings (Deciduous)		2300				
Seed-bed Stock (Citrus)						
Vegetable Plants, Flats		14522				
Ornamentals		67322	30	259	- mes lylme	
Bulbs—Narcissus		11373				
Bulbs—Others		38735	1	12	nemetode	
Bedring plants	8	767				
Hop Rots	1	11000				

NURSERY INSPECTION

Control of the Contro	NO. CLEAN NURSERIES	NO. INFESTED NURSERIES	AMOUNT AND KIND OF STOCK	WHAT CONTROL
PEST	OR PLANTINGS	OR PLANTINGS	INVOLVED	MEASURES USED
SCALE INSECTS				
Black				
Saissetia oleae	4	8	ornamental	oil spraps
Hemispherical				
Saissetia hemisphaerica	10	8		
Red		0		
Chrysomphalus aurantii			De la constant de la	
Yellow				
Chrysomphalus citrinus		0		
Dictyospermum				
Chrysomphalus dictyospermi	11	3	Kenties -	oil sh
Florida Red				
Chrysomphalus aonidum	12	2	Pa lms	PROPERTY AND ADDRESS OF THE PERSON OF THE PE
Citricola		2	East 1	
Coccus pseudomagnoliarum		. 0		
Soft Brown		A SECTION OF SECTION		
Coccus hesperidum	11	3	ornament al	3
Purple			Section 1	
Lepidosaphes becki		0		

PEST	NO. CLEAN NURSERIES OR PLANTINGS	NO. INFESTED NURSERIES OR PLANTINGS	AMOUNT AND KIND OF STOCK INVOLVED	WHAT CONTROL MEASURES USED
SCALE INSECTS—Continued				
Oyster Shell		Charles House Const.	The second second	
Lepidosaphes ulmi		- 0		
San Jose				
Aspidiotus perniciosus	18	1		
Oleander (or Ivy)				•
Aspidiotus hederae	10	4		
Greedy			and the second	
Aspidiotus camelliae	12	2	oleander	
Italian Pear				
Diaspis piricola		0		
Brown Apricot				
Lecanium corni	12	2	orn mental	
Cottony Cushion				
Icerya purchasi	12	2	bowwood	
Rose Scale				
Aulacaspis rosae		3	20868	
Elm Scale				
Gossyparia spuria		0		
Greenhouse Orthezia	- 10	6		
ADDITIONAL SCALE INSECTS				
Aspidestra	12	2	espidestra	
Parlacori Perendii	12	2		
A. Degeneratus		0	os melis	oil wash
			337 34 32	
WHITE FLIES	Figure on a			
Citrus		9		
Greenhouse	- 8	12		
Iris		12		
OTHER WHITE FLIES				
				Last - 1
MEALV BUCC				
MEALY BUGS				
Citrophilus				
Pseudococcus gahani	11	3	J p box	il
Maritimus or Baker's				
Pseudococcus maritimus	- 8	6	Ferns	
Citrus		And the second second		
Pseudococcus citri		0		
Long Tail		The second of the second		
Pseudococcus longispinus	3.0	4		

PEST	NO. CLEAN NURSERIES OR PLANTINGS	NO. INFESTED NURSERIES OR PLANTINGS	AMOUNT AND KIND OF STOCK INVOLVED	WHAT CONTROL MEASURES USED
MEALY BUGS—Continued	TO THE PROPERTY OF SERVICE HAS A		**************************************	All the second
Gossypii or Mexican		The state of the state of		
Phenacoccus gossypii	12	9		
Colemen's				
Phenacoccus colemeni				
Soil Mealy Bugs				
ADDITIONAL MEALY BUGS				
		*		
DIPTERA				
Leaf Miners				
Chrysanthemum and Cineraria				
Phytomyza chrysanthemi				
HYMENOPTERA				
Raspberry Horntail				
Hartigia cressoni				
Orchid or Cattleya Fly				
Eurytoma orchidearum				512
ANTS				
Argentine	2	10		
Natives				
		14		
Turing				
THRIPS	0	12		
			Paring State Control	
ADVIVO C				
APHIS—Common forms Woolly Apple			Company of the second	Daniel Commence
Woolly Apple Pear Root				
Phylloxera				
LEPIDOPTERA				
Cutworms				
Army worms	**************************************	12	\$ 1	
Caterpillars (Common)			Part Carlotte Ca	
Peach Twig Borer		The state of the s		
Anarsia lineatella		The same of the same of the	Name of the second	A company of the second
Raspberry Crown Borer	9	6		
Bembecia marginata		0	Seem of the second second	A service of the service of the
Pacific Peach Tree Borer				
Aegeria opalescens		0		
Leaf Rollers				A-1-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Leaf Rollers		The second second second		

PEST	NO. CLEAN NURSERIES OR PLANTINGS	NO. INFESTED NURSERIES OR PLANTINGS	AMOUNT AND KIND OF STOCK INVOLVED	WHAT CONTROL MEASURES USED
COLEOPTERA				COLUMN TO THE REAL PROPERTY.
Wireworms		14		
June Beetle Larvae				
Flathead Apple Tree Borers Chrysobothris sp.		0	Discourse of the second	
Branch and Twig Borer Polycaon confertus		2		
Roundheaded Apple Tree Borers Saperda candida		0		
Twelve Spotted Cucumber Beetle Diabrotica sp.	2	12		
Flea Beetles				
Weevils				
Fuller's Rose Weevil Pantomorus godmani	2	12		
Strawberry Root Weevil Brachyrhinus ovatus	4	i i	•	
Black Vine Weevil				
Brachyrhinus sulcatus	2	12		
Rough Strawberry Weevil B. rugosostriatus	3.3	1		
Cribricollis B. cribricollis	2.3	1		
HEMIPTERA		14		
Plant Bugs		4.8		
False Chinch Bugs Nysius sp.				
Other Plant Bugs				
		•		
BULB PESTS (Narcissus)				
Greater Fly				Contraction of the
Lesser Flies				**************************************
Mites	The Arean and Area a	14		
Earwigs (European)		0		
Mites and Red Spiders		14		
Cyclamen Mite		10		
Brown Mite	社会方法 医线点			
Bryobia praetiosa		20 E/A 19 E/A 1966		
Tetranychus sp.		9		

PEST	NO. CLEAN NURSERIES OR PLANTINGS	NO. INFESTED NURSERIES OR PLANTINGS	AMOUNT AND KIND OF STOCK INVOLVED	WHAT CONTROL MEASURES USED
Other Red Spiders				
The state of the s				
To be and love to the second of				
Leaf Hoppers				
Tree Hoppers				
Other Nursery Pests				
Control Distriction of the same				
The state of the s		No. 10 marks		
Control Chinasa				
A Courte David C				
NURSERY DISEASES			Section 1	
Oak Root Fungus	14	0		
Hairy Root		14		
Crown Gall		14		
Coryneum Blight		0	A CONTRACT OF THE	
Pear BlightPeach Blight		0		
Gummosis	7	7		
Deciduous				
Citrus			100 mm	
Brown Rot (Deciduous)		7		
Root Knot (Nematode)	10	4		
Mosaic (other stock)			About	
Wilts				
Mildews				
Rusts				
BULB DISEASES Mosaic				
Nematode				PROPERTY OF STREET
Narcissus Basal Rot				
Gladiolus Scab				

Severe damage

INSECT PESTS

report is as valuable as a positive.	INSE	C L	PES.	a report of	Make	damage	Medium Medium
		DAMAGE*		965	Total	CHIERAI	None
	C	NDICATE ROSS MAR	BY K X	PRESENT,	ACRES	EXTENT, GENERAL	HOST
Citrus mealybug	SEVERE	MEDIUM	SLIGHT	OR NO	INFESTED	OR LOCAL	, Indiana and a second
ORTHOPTERA							A STATE OF STATE OF
Crickets* (sp.)							A CONTRACTOR OF THE PARTY OF TH
Grasshoppers* (sp.)		Nod?	X	yes		genere	1
THYSANOPTERA*						local	
Bean thrips							To make the
Hercothrips fasciatus							
Citrus thrips		36			Eome La		bears-pears
Scirtothrips citri							ald so units
Western flower thrips			×	yes			oranges
Frankliniella californica			x	yes			
Greenhouse thrips				3.00			
Heliothrips haemorrhoidalis			X				APPROPRIES IN
Onion thrips			-dh	yes			
Thrips tabaci	×				# T		
Pear thrips							seed onions
Taeniothrips inconsequens		x				And the same of	
Vine thrips		35				genera	1 pears
Drepanothrips reuteri			44				
HOMOPTERA			X	yes		local	grapes
Aphis*							
Bean aphis							一种人物的
Aphis rumicis							
Black citrus aphis			R	yes		general	heans
Toxoptera aurantiae							
Black cherry aphis			×	22		100-1	citrus
Myzus cerasi							
Grape phylloxera		A				gensrel	cherries -
Phylloxera vitifoliae							
Green apple aphis		*				gonere l	grepes
Aphis pomi							
Green peach aphis	-		34	you		local	apples
Myzus persicae				82			
Mealy plum louse			X	4			perches
Hyalopterus arundinis							
Melon aphis	-					gereral	prones-dlums
Aphis gossypii				##		The second secon	
Pea aphis			X I			locel	
Illinoia pisi							
Rosy apple aphis			2X		8	eneral	
Anuraphis roseus							
			7	- 報		Q1	Control of the Contro
Walnut aphis							
Chromaphis juglandicola			X	- 19		- 4	Market State Comment of the Comment
Woolly apple aphis			-	69		41	
Eriosoma lanigera			2			V 128	The state of the s
Woolly pear aphis						* 1	
E. languinosa		X				- 10	DOG 118
Mealybugs*		w 1					spotted on grapes
Grape mealybug			X	yes		10	general but of no
Pseudococcus maritimus			-	200			farore and or mo

^{*}Enter names of insects, if destructive, other than those mentioned.

loss to county by reduction in value of crop and money spent in control.

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INSECT PESTS—Continued

	I	DAMAGE* NDICATE ROSS MARI	BY	PRESENT,	ACRES INFESTED	EXTENT, GENERAL	HOST
Flat headed apple tree boter	SEVERE	MEDIUM	SLIGHT	OR NO	INFESTED	OR LOCAL	
Citrus mealybug Pseudococcus citri			×	yes		loca	greenhouse l ornementals
Citrophilus mealybug Pseudococcus gahani			X	*		# 10	ornementals in
Mexican mealybug							
Phenacoccus gossybii			x	型 1		(3)	in sages mirs ries
Scales*							
Black scale						3743	ornamentals and
Saissetia oleae			X			genera	oli es only
Brown apricot scale Lecanium corni							
Cottony cushion scale		- 100 - 100 - 100				- 50	Stone fruits
Icerya purchasi						Section.	ornamentals
Dictyospermum scale			26	9			240 240 240
Chrysomphalus dictyospermi	-			29			
Greedy scale			X			locs l	Konties
Aspidiotus camelliae						er eteres	A CONTRACT CONTRACTOR CONTRACTOR
Grey citrus scale			28	- 19		- 12	OF TRADITALS
Coccus pseudomagnoliarum			×	14			
Italian pear scale			3			generol	oranges-ornamentals
Diaspis piricola			×	81470			
Ivy scale						local	ve laute —
Aspidiotus hederae	1000		X	#8		and the second	arms mark a La
Purple scale							08 24 54 2 2 5 A 1 2 3
Lepidosaphes becki				N)			
Red Scale							
Chrysomphalus aurantii				NO			#8 - The Selection
San Jose scale Astidiotus perniciosus							
Aspidiotus perniciosus 10 Soft brown scale		X		yes	- 0	oneral	pears - stone fruits
Coccus hesperidum							
Yellow scale			*	- 44		PR_10001	At the Total Control of
Chrysomphalus citrinus						the second	Infestation in citrus
Leafhoppers*			- True			100-1	belt descreed by from
Grape leafhopper							
Erythroneura comes			X	n		8)	2000 AD 0
Sugar beet leafhopper							grapes
Eutettix tenellus			X	49		80	suger beets
COLEOPTERA*							tora toos
Bean weevil							
Mylabrus spp.				C#		333	
Black vine weevil							Des Ma
Brachyrhinus sulcatus			×	-19		194	leth houses
Darkling ground beetle			x				
Tenebrionidae				Toronto No.		gouers 1	tomstoos-beens
Diabrotica Diabrotica		x				22	
Diabrotica spp.		***	* 1				garden crops
Dried fruit beetle							
Carpophilus hemipterusElm leaf beetle		Ж		38.	1	loce 1	
Galerucella xanthomelaena						24	
= Care i ne cum xum nomenaema.		2					

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INSECT PESTS—Continued

Walnut hosk fly		II	DAMAGE* NDICATE LOSS MARI	BY	PRESENT, YES OR NO	ACRES INFESTED	EXTENT, GENERAL OR LOCAL	HOST
William Market 197		SEVERE	MEDIUM	SLIGHT	OR NO		J. Zouit	
Flat headed apple tree borer Chrysobothris spp.							conor	
Fullers rose weevil							Parrati	
Pantomorus godmani				- 2	yes		200	citrus ornamentals
Grape leaf hoplia								
Hoplia callipyge			X				53	grapes
								Territor Magnipage Line
Pepper weevil Anthonomus eugenii								
Roman weevil								
Brachyrhinus cribricollis				24	yes		local	privet hodges
Brachyrhinus crioricoms								
Rough strawberry weevil				- 4				
B. rugosostriatus								STANCE LAND FOR STANCE
Shot-hole borer				1				
Scolytus rugulosus				35	yes		gomere.	injured stone fruit
Strawberry root weevil							Inglish was	Nesta Alexander
B. ovatus		- 8						
Vegetable weevil								
Listroderes obliquus					130	-4:50		
LEPIDOPTERA*								
Artichoke plume moth					no			
Platyptilia carduidactyla			1					
California oak moth		-		*	slight		Joan I	SC ST CALL CARE CONTROL
Phryganidia californica								
Codling moth of fruits	,		1				* 1	
Carpocapsa pomonella	0.00%	*	TAT	N. Carrier	Wedge		conerel	pose fruits
Codling moth of walnuts		Ad IL	LOLL I	3.	yes			
Carpocapsa pomonella		UNDARK			63			
Corn ear worm	8	DES MARS	E TOTAL		INTECTS AT	ACKED AND	Suggest and	Capt do man
Heliothis obsoleta	9	REDIUM	- 2				colored.	Lield crops
Crambid moths		The same		1		1		
Crambus spp.		-		X	yes		locs l	
Cutworms			-			- Programme		
Noctuidae			X				general	field crops
Fruit tree leaf roller		-38	-	4				
Cacoecia argyrospila		-		*	908			· · · · · · · · · · · · · · · · · · ·
Indian meal moth				-				
Plodia interpunctella			- 3				local	store rooms
Lima bean pod borer				-				
Etiella schisticolor		3						
Orange tortrix		-2	-	-				
Tortrix citrana								
Western peach borer				-		-		
Aegeria opalescens					no-			
Peach twig borer				1				
Anarsia lineatella	2	X					general	stone fruits
Potato tuber moth		DCTF A	10.00	The				
Gnorimoschema operculella_			55 A 3	2	yes		local	potetoes
Red humped caterpillar	NUMBER S	DALLE .	Thurse.	Tible 2	and seasons in	CHIPTER	59	HA ANGESTO
Schizura concinna			-	X	- 49	The second second	general	we lnute
Tent caterpillars			and the same					
Malacosoma spp		-	-	×	# # m	-	- Control of the Control	Barries Charles
DIPTERA*								
Cabbage maggot					19			
Hylemyia brassicae		-		X				
= 11 yie iii yiii Otussicuc								

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Ca

oal

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oW/

Pea

Pot

Red

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DIPTA Cab

	INSEC	T PI	ESTS	—C	ontinu	ed		
	1	CI	DAMAGE* NDICATE : ROSS MARI	BY K X	PRESENT, YES OR NO	ACRES INFESTED	EXTENT, GENERAL OR LOCAL	HOST
Walnut husk fly		SEVERE	MEDIUM	SLIGHT				
Rhagoletis suavis subsp.								
completa					No			
DERMAPTERA*								
European earwigs					No			
Forficula auricularia					160			1 1 2 2 2 2
HYMENOPTERA*						Established Auto		
Argentine ants			1000					
Iridomyrmex humilis			Z				genera	l houses-nurseries
Pear slug								
Eriocampoides limacena		9				4.5		一 。
ARACHNIDA*		N.			yes		local	cherries years
Brown mite		12 2						
Bryobia praetiosa	9							一大道 图 1
Pear leaf blister mite	1			F			Conord	a land-stone fruit
Eriophyes pyri	S							
Red spider							genera.	pervs
Tetranychus spp.	3		25				pears	field crops, prunes
				e i marie e marie				oeaches
*Other destructive species not l	isted.	45 5						
		3 4						
ire verse			100				45.5	tomatoes, beans
							Eams La	field erops
Carden centiped		梅干节	X				locel	\$ 8 D9 19 23 8
							199	40173174
Asperagus beetle		6.1	Z				18	1. 计数字分
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Aphycus								1 1 1 1 1 1
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Cryptolaemus montrouzieri			N.F.					1 33 . 1 . 2
Hippodamia convergens			-					A SA SA SA
Lacewings		X						
Olla abdominalis			***					I TELEVISION
Rodolia cardinalis		46						TIME TO A STATE OF
Rhizobius ventralis			1 1					3131
Scutellista		*	-					
Syrphids		-						
Tetracnemus pretiosus								
Other parasitic species.		N E N	H 1					
		4.2 3	8 1					

INSECTARY REPORT

NAME OF INSECT	NUMBER REARED	NUMBER LIBERATED	NUMBER COLLECTED	OTHER REMARKS
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	0.4	100 7		

REMARKS: (use reverse side for remarks)

\$1384 12-31 500 CALIFORNIA STATE PRINTING OFFICE

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ANNUAL REPORT SACREMENTS

FROM JANUARY 1, 193 TO DECEMBER 31, 1933

ARA

IV

PRINCIPAL PLANT DISEASES

LAL		pear blight corynama gummoais		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ORNAMENTAL	Sand Bridge State		arreas	122 4 20 100
	A Company of the Comp	9 50 5 77 9 72 74	N 4 (NA) 24	227-6-7
FIELD CROPS		stripe disesse amut blig fuserium		
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BUSH AND VINE FRUITS	9 ° °	10 m	and the second	
BUSH	crinkle more ic yellows	grey mold milder black milde		
PICAL			100	
SUBTROPICAL	Andrew Control of the	L House	olfre mot	
LE.	and the second	L L L	0	
VEGETABLE		the southern fushrangellows		
		50 mg		1
TON	Company and Annual Company	peach blight oron rot son die beck fur gen		
		- W - W	(Comments)	
POME		blight	989	
PC		1 89d	8	
(US			1	
CITRUS			frost injury	
		brown rot mildew gummosis crown gwll		
STONE		brown rot mildew gummosis crown gwll		
	•	· +		
	New Diseases not observed previously.	Indigenous Disease present but without seasonal fluctuation.	de- ak.	neral
	iseases	oous D but v	iic, wi	nic, ge lk.
	New Diseases not observed previous	Indigenous Disease present but withou seasonal fluctuation	Epidemic, wide- spread outbreak.	4. Pandemic, general outbreak.
	1. 7	2. In P P see	3. E	4. P

st scwwn3

REMARKS:

in 4933, new growth was put out in meny trees onich letter dried out, heart rot appears to be starting in meny injured trees, particularly were ordiy damaged and the olive knot has gained a tremend out to injured trees Frost injury of December 1932 froze occa orange trees to the extent that no crop as produced

Annual Report County. From Jan. 1, 193, to Dec. 31, 193,

WEED CONTROL

WEEDS	SEVERITY OF INFESTATION	AREA INFESTED, ACRES	AREA TREATED, ACRES	COST OF LABOR AND MATERIAL	TREATMENT
Johnson grass					
Sandbur	loca lised	300			
Russian thistle	AK KROKK KAK				
Hoary cress	le ees, waste				
Puncture vine	local	200			
Camel's thorn	med ium				oil spray, bur
Morning glory					
Yellow star thistle	general				
Purple star thistle	fairly gener	1			
Russian knapweed	local slight				hend digging
Canada thistle		100			men callered
	local	25			
Bull thistle	local	Spot tod 1	eesies	est places	
Milk thistle	fairly genera	l on leve	s, roadus	s, and wast	places
Creeping sow thistle					
White horse nettle	two ery sl	ight infest	etions		hen digring
Other weeds:	Efficient for state of the stat	to your by all the year and your	Agricultus s	CONT. DOS AS CONT. CONT. DOS AS LOUIS CONT. CONT.	Carton an agent
		THE RESIDENCE OF THE PARTY OF T	THE RESERVE AND DESCRIPTIONS OF THE		
MATERIALS USED	AMOUNT		COST	RESULTS (GO	OOD, FAIR, POOR)
Supplemental and the supplemental and the	AMOUNT		COST	RESULTS (GC	OOD, FAIR, POOR)
Petroleum oils	AMOUNT 200 ga li		COST		
Petroleum oils					OOD, FAIR, POOR)
Petroleum oils Calcium chlorate Sodium chlorate		5			
Petroleum oils Calcium chlorate Sodium chlorate Carbon bisulphide		5			
Petroleum oils Calcium chlorate Sodium chlorate Carbon bisulphide Arsenicals		5			
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Petroleum oils Calcium chlorate Sodium chlorate Carbon bisulphide Arsenicals Others Equipment		EXTENT USI	.03		ncture vine

REMARKS:

Annual Report Sau Raze 110 County. For year ending Jan. 1, 193 3 to Dec. 31, 193 3

RODENT CONTROL

Strychnined Grain Used by all agencies, acres treated: (a) Grazing land (b) Arable land 1000 1000 Thallium grain used (a) Grazing land (b) Arable land 1000 Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Acres. Efficiency Thallium grain used (a) Grazing land (b) Acres. Efficiency Thallium grain used (b) Acres. Efficiency Thallium grain used (a) Grazing land (b) Acres. Efficiency Thallium grain used (b) Acres. Efficiency Thallium grain used (b) Acres. Efficiency Thallium grain used (b) Average cost per lb. Thallium grain used (c) Average cost per lb. Thallium grain used (d) Acres. Efficiency Thallium grain used (e) Average cost per lb. Thalliu
(a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Arable land 1000 Acres. Efficiency Thallium grain used (a) Grazing land (b) Acres. Efficiency Thallium grain used Acres in Control expenditure in County state of the s
(b) Arable land 1000 Thallium grain used (a) Grazing land (b) Arable land 2000 Other Types of Poisoned Grain: What kinds of poisoned grain? What acreage covered? Average cost per acre with poisoned grains (all kinds) Carbon Bisulphide Used: Pounds. Wasteballs used Cost per pound \$ Pumps used Number of acres treated Ffficiency Other gas methods used: Efficiency Other gas methods used: Efficiency The fine cost of the property
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Other Types of Poisoned Grain: What kinds of poisoned grain? What acreage covered? Average cost per acre with poisoned grains (all kinds) Carbon Bisulphide Used: Pounds. Cost per pound \$ Wasteballs used Cost per 1,000 \$ Pumps used Cost per hole \$ Number of acres treated Efficiency % Av. cost per acre \$ Other gas methods used: Efficiency % Av. cost per acre \$ Estimated total rodent control expenditure in county by all agencies \$ Estimated annual loss occasioned by rodents, \$ What percentage of squirrels killed in county during the year? Acres in county cleared of ground squirrels What areas of government lands (National Forest and Public Domain) cause reinfestation on agricultural lands? Quantity government land needing attention for rodents?
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Quantity government land needing attention for rodents?
Quantity government land needing attention for rodents?
Acreage government land treated this year
Acreage government land treated this year 786 Acreage State or State controlled lands 786
OTHER RODENTS
Gophers 3 3/4 oz. strychnine distributed by office
Rets 7 5/8 lbs. red squill "

REMARKS:

-										1		u.X				
nch	:Troug	hs :	Prebait	. 8	Polson	#1	innets	2	E.Sparrows	* G.	Sparrov	***************************************	Rotal 198		*Total	1932
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					54		773		70		127	8	96.8 330	10 mass	2016	

(A Includes birds from presises worked in 1932 but because of lack of bud damage in 1933 no poison had been placed.)

Bird control work was directed against three species of birds during 1933.

1-Linnets-damaging fruit buds and fresh fruit.

2-Gambel Sparrow-destruction of vegetables and alfalfa.

3-English Sparrow-Carrier of poultry disease and a general nuisance.

Linnet damage prior to 1932 was extremely severe in prume orchards lying north east and also west of Mather field; in almonds east of Vair Oaks and in Arcade.

During 1932 -102 Lbs. of poison seed was placed with the destruction of 2016 birds. The damage to the orchards where the work was carried on was considerable less than before control was started. It was observed that in one orchard the birds were present early in the year with control being undertaken in late December and January. These indoubtedly were birds overwintering in this area. Large flocks of linnets were noted in fields close by but were not present in the orchard. This was also found true for the 1935 season. A second orchard located several miles away was not infested until men latter with control being carried on during February and March. Indications here lead so to believe that the damage in this orchard was caused by migratory birds entirely.

Previous to the campaign of 1933 a survey showed damage to be limited to specific prehards and in no way could it be considered as wide spread or general. An interesting point noted at this time is a comparison of our 1933 work with the work of 1932. For type four pounds of poison seed was used with a pick up of the birds. In 1932 - 102 lbs. was used with a pick up of 2016 birds. In the orchards where our greatest pick up occured in 1952, no damage and very few linnets were noted. This was also true to a lesser degree other orchards, indicating that damage to specific orchards may be caused by the same

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flock of birds year after year. Eleminating the flock causing the damage should therefore give control although other linnets may exist in the neighborhood. Bud damage has been curtailed where control programs were carried on. Damage to fresh fruit particularly cherries has not been avoided and still presents a problem. This cherry damage may be caused by local bands which feed during the early spring on gracelands or by signatory birds. Linnet control of this nature may be necessary on areas outside the presises where the damage occurs.

II Gasble Sparrow. These birds have been destroying early vegetables, young alfalfa, and Stramberies. Unsaturated poisons were used with no success as these birds appear capable of shelling the seed without being poisoned. The change to a saturated bait was the means of destroying a Flock of 113 birds which has completely destroyed several acres of young alfalfa necessitating the replanting of the portion destroyed. A Sparrow trap was placed on one premise but the results to date are not conclusive.

III English Sparrows, Complanite regarding these birds are increasing. Particularly is residential areas although one complaint was registered from a poultrymen who feared the apread of poultry disease by this bird. Poisons are dengarous for use in the areas where these birds flock although some success was obtained on one reach. The use of a trap was tried in Sacramento with 46 birds having been caught. This seems there eleminated the sparrows in that immediate vicinity. Other traps will be given a trial.

One area in which damage to fruit was reported, the work was delayed in order to check on late spring control. Attempts made after blossom time were unsuccessful both to acceptance and kill. A large flock of limnets was noted and the cherry crop on maker of treas was almost a total loss due to bird picks. In July midsummer peaches were being destroyed and troughs were again out in place. A very good kill was obtained particularly on young birds. The heavist kill being made in early September.

Two lbs. of poisoned elecade ground up and scattered around an elecad heller more linnets were congregating succeeded in killing 144 birds

Annual Report Sour Mario County. From Jan. 1, 193, to Dec. 31, 193, FRUIT, NUT AND VEGETABLE STANDARDIZATION

		200	R	EJECTION	NS AND D	ISPOSITIO	ON		E .	8	L.H.o.	26		
E OF TRONS	REASONS FOR REJECTIONS		REJECTED .)	DUMP	OYED OR PED BY ORDER WNER	OR REN	DITIONED MARKED LE OR TO ODUCTS	ARRESTS MADE	NUMBER	TOTAL PENAL- TIES (AMOUNT OF FINE AND OTHER SENTENCES)	NUMBER OF MAN DAYS ON STAND- ARDIZATION. (TOTAL DAYS SPENT UNDER EACH HEADING)	VOI INSP	PECTEI
		No. Lots	No.* Pkgs.	Weight	No.* Pkgs.	Weight	No.* Pkgs.	Weight	A		TT O	NU N	†PACK- AGES	CAL
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nt of	IMMATURITY	71	366	10	515		3145	*						
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rtion of	Excessive defects							E	11					
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	No marks or mismarked	14	960				960							
	TOTAL	202	1.633		1171		11462		2	1				

Report either number packages or weight, under their respective headings. Report either number packages or carloads, under their respective headings. NOTE.—Indicate in this space principal commodities covered by this report

500 CALIFORNIA STATE PRINTING OFFICE

no cold

FRUIT AND VEGETABLES SHIPPED FROM SACRAMENTO 1933.

Sacramento									May		June	2 :	July	:	Aug.	:Se	ot.						Dec	
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Carrots	:	å				:		*	2	:	2:		1	å				i		*		:		:
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- 1932 1 Total for months does not include sugar beets. no copy

CARLOAD FRUITS & VEGETABLES RECEIVED AT SACRAMENTO 1933.

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Fotatoes	ě	164		162	204	3	256	*	122	*	90	,25	*	12	1	51	*1	53	*	109	·	161	: J	.507
C≡ctelope	1		8				Mercelle (Ind. 1922 19			NSMC CONTRACTOR	Mary of the last o	14	Bridge Street	THE PERSON NAMED IN	OME THE	DO NO NO CO	No. Service and		*		***************************************		*	25
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June 10

ANNUAL REPORT

County. From Jan. 1, 193 to Dec. 31, 193

APIARY INSPECTION

		NUMBER OF APIARIES	NUMBER OF COLONIES
The state of the second	Registered	94	28.65
TONS INTER- STATE	Entering California		
RECORD OF MIGRATIONS INTER COUNTY STAI	Leaving California		
ORD OF MIG INTER COUNTY	Entering County	1-11,760,11	19
ECORD	Leaving County	28	8
IN- TRA- CO.	Moving within County		
	Inspected	20	2152
CTION	Infected with American Foulbrood	4	93
APIARY INSPECTION	Infected with European Foulbrood	3	9
APIAR	Infected with Sacbrood		
A service	Adult Bee Diseases (paralysis, etc.)		Tajarta.
AMERICAN FOULBROOD ERADICATION	Burned American Foulbrood	C CONTRACTOR	93
A) FO ERA	Otherwise Treated for American Foulbrood	Anglin Manager	
LEGAL PROCEDURES	No. Certificates Issued No. Permits Granted No. Abatement Notices Issued Arrests Made Cases Tried No. Convictions Total Penalties Funds Expended		200.00

Footnotes or Remarks (Use extra sheets if necessary):

Queens shipped	interstate intrastate	22 07 8 7 33	Total	5940 Queens
Package bes,	interstate	539		
a	intrastate	31	Total	570 Packages

Annual Report Sacramento County. For fiscal year ending June 30, 19

FINANCIAL STATEMENT

	CIAL STATE	3212232 1 1	
Salaries and Wages	TOTAL	SUBTOTAL	GRAND TOTAL
Commissioner	\$ 2400.00		
Deputy Commissioner (s)	6900e00		4
Inspectors			
Office help	7700.61	8	The state of the s
Office and General Expense	300.00	\$ 3,597.31	
Materials and Supplies	2,50	7 - 0,0011-02	
On hand July 1, 193	\$	The state of the s	
Add purchases during year		0	
Deduct on hand June 30, 193		\$	
Equipment purchases		\$	
Deduct refunds due			\$ 34 507 40
Classification to agree in total with above:			\$ 16,597.42
Plant Quarantine		¢	
		5,595.00	
Standardization		4,824909	
Orchard Inspection		2,010.00	_
Nursery Inspection		300.00	
Rodent Control (County expense)		8 25.00	
Weed Control (County expense)		1,000.00	
Apiary Inspections		100.00	
Other Items		1,943.73	\$ 14,597.42
Budget for current year:			23,007,042
Plant Quarantine		\$	
Standardization		\$-3,500 4,000	
Orchard Inspection Nursery Inspection		23000	
Rodent Control		300	
Weed Control		1,0980	
Aplary Inspection		1.00	
Miscellaneous		1,135	d 30 0 m
			\$13,835
1-34 600 CALIFORNIA STATE PRINTING OFFICE			

SPECIAL INTERSTATE CERTIFICATES IS DED 1933.

		Oregon Quar.		regon		ada Colo	Po	tato mi@ati	Fotai	to Ld	: M1	sc. "tand-	- 1	Total
JAN	ŧ			41						Agus A	•			74
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April	•	123	1	81	age and the next are also selected the	25	*	11		59 MIN M	•		*	248
May	*	206	*	179	The same of the sa	134	Se desperator and the	18			5*		1	510
June	*	110	an area and	97	*	126	*	19			t		*	332
July	*	1.9	\$	19	\$	184	*	8		east year and	,		1	225
Aug.	•	10	*	19	\$	81		0	*	0		1	*	180
Sept.	•	25	\$	25	Contract on the second	18	*	0		0	•	0	:	68
Oct.		49		57	1	5	*	Ò		Q		101	1	210
Nov.		84	£	90	A HALL THAN AND AND AND AND AND AND AND AND AND A	4	*	0		0	*	180	*	358
Dec.	*	70	and the same of th	89	1	5		0	\$	Q	\$	20	*	393
Totall	*	888		810	ı	578		58		To the second se		514	*	2804

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TRUCKLOADS FRUITS & VEGETABLES UNLOADED AT SACRAMENTO 1938.

Commodity:		Sent.	:	Detaba	r: Sc	vember	.De	cenber	: 1	otal	
ipples		5	:	78		54		46	\$	188	es auto mon vivos · · · · · · · · · · · · · · · · · · ·
Sabbage	*		***			A 100 A				No. 16 will be an inches	
Cauliflower			*				1		*		
Colory	1		\$		1		1	hange of the contract of the c	\$		
Carrete	*				*		1		2		
Cantelopes	*						1		*	er gade engag separatura senso en	
Citrus			\$				*		*		Mark Williams and the state of the
Grapefruit	*			6	1	8		2		14	
Lebtuce	A STATE OF THE STA	was naka naka katenani panda ana mana	*	15	*		t		*	15	and the same was the
Lemons	*	name, man e pre esta mista militar de la composition della composi	\$	1	\$	7				11	e viva valade desprise de state desa
Kelons	territorio sun est est utente.		1	2						2	
Onlons		**************************************	1	1					*	1	
Or nges			:	10		11		19	*	40	
Potatoes		14	:	88	1	48		54	*	158	
Peas	*		1	AS OF NY CO. AND N	*		*				
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Miz. Veg.				10	*	na ara ma sar kar man ma	ente even sewine (6 8)		*	10	
fotal	*	21	\$	170	*	134	e gradi victor entre year (ja (ja	115	*	440	