



REPORTS OF INDICATORS FOR SURVEILLANCE / ERADICATION / FRUIY FLY PROGRAM/ PHITOSANITARY SUBDEPARTMENT / PLANT PROTECTION DIVISION / SAG

COUNTY: LOS ANDES - PROVINCE: LOS ANDES - REGION: VALPARAÍSO

PAG 1

WEEKS / REPORTS #	09-02-2023 TO 12-02-2023 #1	13-02-2023 TO 19-02-2023 #2	20-02-2023 TO 26-02-2023 #3	27-02-2023 TO 05-03-2023 #4	06-03-2023 TO 12-03-2023 #5	13-03-2023 TO 19-03-2023 #6	20-03-2023 TO 26-03-2023 #7	27-03-2023 TO 02-04-2023 #8	03-04-2023 TO 09-04-2023 #9	10-04-2023 TO 16-04-2023 #10	17-04-2023 TO 23-04-2023 #11	24-04-2023 TO 30-04-2023 #12	01-05-2023 TO 07-05-2023 #13
<b>ITEMS /WORKS</b>													
<b>ADULTS DETECTION</b>													
DATE FIRST DETECTION	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023
DATE LAST DETECTION	12-02-2023	16-02-2023	24-02-2023	03-03-2023	07-03-2023	17-03-2023	24-03-2023	31-03-2023	06-04-2023	14-04-2023	21-04-2023	28-04-2023	05-05-2023
N° TOTAL DETECTIONS	30	57	113	156	171	270	338	398	473	506	536	584	617
N° WEEK SINCE LAST DETECTION	0	0	0	0	0	0	0	0	0	0	0	0	0
N° OF TRAPS AT WORKING AREA	405	438	457	457	535	535	535	535	535	569	595	619	624
N° OF TRAPS INSPECTION	161	694	1.007	1.595	2.294	2.810	3.522	4.240	4.958	5.950	6.876	7.898	8.891
INSPECTION FREQUENCY	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK
<b>DETECTION OF INMATURE STAGE</b>													
FIRST LARVAL FOCI	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023
LAST LARVAL FOCI	12-02-2023	18-02-2023	25-02-2023	28-02-2023	11-03-2023	16-03-2023	24-03-2023	30-03-2023	05-04-2023	13-04-2023	19-04-2023	28-04-2023	06-05-2023
N° OF DETECTED LARVAL FOCIS	8	24	44	48	49	52	54	59	64	69	74	77	83
N° OF WEEKS SINCE LAST LARVAL FOCI	0	0	0	0	0	0	0	0	0	0	0	0	0
N° OF PLACES VISITED	57	145	160	442	750	1.050	1.300	1.430	1.822	2.124	2.383	2.697	2.985
Nº OF PLACES WITH FRUIT SAMPLES	32	67	81	186	328	450	525	570	661	739	811	857	943
N° FRUIT SAMPLE ANALYZED	177	522	1.064	1.472	2.340	2.918	3.235	3.527	3.897	4.172	4.546	4.724	5.123
Nº OF FRUIT UNITS ANALYZED	1.673	6.323	14.549	16.894	21.999	25.316	26.784	28.452	29.923	31.776	33.942	35.051	36.852
N° FRUIT KILOS ANALYZED	57,03	287,01	787,10	942,50	1.252,6	1.459	1.576	1.692	1.792	1.981	2.171	2.245	2.369
N° FRUIT SPECIES ANALYZED	22	22	26	27	27	28	28	28	28	28	28	28	28
UNITS OF INFESTED FRUIT	8	29	58	60	63	64	66	74	91	128	141	144	150
ACCUMULATIVE INFECTION PERCENTAGE (1)	0,48	0,46	0,40	0,36	0,29	0,25	0,25	0,26	0,30	0,40	0,42	0,41	0,41
N° OF FRUIT SPECIES INFESTED	3	6	6	6	6	6	6	6	6	6	6	6	8
<b>CONTROL FOR INMATURE STAGES AND ADULTS</b>													
LITERS OF INSECTICIDE APPLIED (SUCCESS -GF/120)	24	230	252	292	418	448	528	538	568	648	648	688	688
N° OF PLACES WITH SOIL TREATMENT	3	16	16	30	39	39	48	77	81	87	105	117	125
SQUARE MTS2 OF SOIL TREATMENT	95,0	334	92.313	213.118	324.368	386.204	387.460	388.620	389.801	391.462	393.076	394.530	396.165
LITERS OF DZN APPLIED	1.100	3.650	28.700	43.600	61.940	92.340	110.890	130.120	149.879	174.820	199.430	217.030	238.680
KILOS OF FRUIT STRIPPED	1.025	5.880	13.264	20.920	23.935	23.311	27.800	149.254	149.814	380.220	385.611	389.812	391.595
N° OF FRUIT SPECIES STRIPPED	9	11	14	16	16	23	24	24	24	24	24	29	29
<b>CYCLE ESTIMATION BASED AT SUMMATORY DAYS DEGRESS</b>													
FIRST CYCLE	0°D	16,58°D	12,1°D	46,99°D	87,69°D	45,47°D	44,93°D	42,95°D	52,7°D	20,67°D	23,92°D	18,34°D	7,05°D
SECOND CYCLE													
THIRD CYCLE													

(1):Units of fruit infested versus units of fruit analyzed



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WEEKS / REPORTS #	08-05-2023 TO 14-05-2023 #14	15-05-2023 TO 21-05-2023 #15	22-05-2023 TO 28-05-2023 #16	29-05-2023 TO 04-06-2023 #17	05-06-2023 TO 11-06-2023 #18	12-06-2023 TO 18-06-2023 #19	19-06-2023 TO 25-06-2023 #20	26-06-2023 TO 02-07-2023 #21	03-07-2023 TO 09-07-2023 #22	10-07-2023 TO 16-07-2023 #23	17-07-2023 TO 23-07-2023 #24	24-07-2023 TO 30-07-2023 #25	31-07-2023 TO 06-08-2023 #26
<b>ITEMS /WORKS</b>													
<b>ADULTS DETECTION</b>													
DATE FIRST DETECTION	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023
DATE LAST DETECTION	05-05-2023	16-05-2023	23-05-2023	02-06-2023	09-06-2023	16-06-2023	20-06-2023	28-06-2023	05-07-2023	11-07-2023	21-07-2023	28-07-2023	01-08-2023
N° TOTAL DETECTIONS	617	670	727	851	876	895	902	906	909	911	921	926	934
N° WEEK SINCE LAST DETECTION	0	0	0	0	0	0	0	0	0	0	0	0	0
N° OF TRAPS AT WORKING AREA	704	715	831	1.101	1.114	1.188	1.204	1.219	1.249	1.348	1.467	1.609	1.534
N° OF TRAPS INSPECTION	9.853	10.837	11.967	27.449	29.469	31.630	33.825	36.051	38.337	40.772	41.021	43.973	49.166
INSPECTION FREQUENCY	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK
<b>DETECTION OF INMATURE STAGE</b>													
FIRST LARVAL FOCI	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023
LAST LARVAL FOCI	12-05-2023	19-05-2023	22-05-2023	31-05-2023	09-06-2023	16-06-2023	20-06-2023	01-07-2023	07-07-2023	11-07-2023	21-07-2023	25-07-2023	25-07-2023
N° OF DETECTED LARVAL FOCIS	86	92	102	128	133	145	147	150	156	158	159	160	160
N° OF WEEKS SINCE LAST LARVAL FOCI	0	0	0	0	0	0	0	0	0	0	0	0	1
N° OF PLACES VISITED	3.250	3.474	3.901	35.256	44.704	49.134	51.673	56.347	60.630	67.119	69.459	73.242	74.928
Nº OF PLACES WITH FRUIT SAMPLES	1.082	1.121	1.229	5.247	6.454	7.050	7.356	7.921	8.558	8.923	9.282	9.778	10.060
N° FRUIT SAMPLE ANALYZED	5.816	6.251	6.890	18.057	23.595	25.420	26.297	28.223	29.638	31.141	34.270	37.405	40.099
Nº OF FRUIT UNITS ANALYZED	39.472	42.292	46.311	123.346	149.119	163.693	171.300	190.659	208.136	223.395	249.825	295.829	344.026
N° FRUIT KILOS ANALYZED	2.639	2.778	3.053	7.083	8.635	9.477	9.964	11.289	12.566	13.618	16.067	17.554	18.589
N° FRUIT SPECIES ANALYZED	28	31	31	31	32	32	32	32	35	35	35	35	35
UNITS OF INFESTED FRUIT	150	161	174	234	238	264	267	272	281	287	289	291	291
ACCUMULATIVE INFESTION PERCENTAGE (1)	0,38	0,38	0,38	0,19	0,16	0,16	0,16	0,14	0,14	0,13	0,12	0,10	0,08
N° OF FRUIT SPECIES INFESTED	8	8	8	8	9	9	9	9	9	9	9	9	9
<b>CONTROL FOR INMATURE STAGES AND ADULTS</b>													
LITERS OF INSECTICIDE APPLIED (SUCCESS -GF/120)	728	802	857	1.487	1.509	1.619	1.663	1.747	1.767	1.847	1.947	2.147	2.307
N° OF PLACES WITH SOIL TREATMENT	141	161	170	1.737	1.776	1.972	2.166	2.318	2.464	2.647	2.821	3.112	3.289
SQUARE MTS2 OF SOIL TREATMENT	398.731	401.642	404.468	425.920	428.941	434.599	440.135	446.642	454.323	461.298	469.528	485.475	501.512
LITERS OF DZN APPLIED	280.180	330.480	366.630	629.195	676.215	748.545	814.005	901.260	1.003.310	1.082.465	1.181.880	1.311.010	1.439.580
KILOS OF FRUIT STRIPPED	393.817	397.362	399.650	466.788	468.927	473.512	478.184	487.295	491.874	497.239	503.334	510.961	515.842
N° OF FRUIT SPECIES STRIPPED	29	29	29	29	29	29	29	29	29	29	29	29	29
<b>CYCLE ESTIMATION BASED AT SUMMATORY DAYS DEGRESS</b>													
FIRST CYCLE	35,92°D	9,46°D	22,21°D	22,5°D	9,36°D	18,61°D	22,85°D	8,13°D	5,26°D	15,51°D	1,89°D	26,41°D	48,12°D
SECOND CYCLE													
THIRD CYCLE													

(1):Units of fruit infested versus units of fruit analyzed



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WEEKS / REPORTS #	07-08-2023 TO 13-08-2023 #27	14-08-2023 TO 20-08-2023 #28	21-08-2023 TO 27-08-2023 #29	28-08-2023 TO 03-09-2023 #30	04-09-2023 TO 10-09-2023 #31	11-09-2023 TO 17-09-2023 #32	18-09-2023 TO 24-09-2023 #33	25-09-2023 TO 01-10-2023 #34	02-10-2023 TO 08-10-2023 #35	09-10-2023 TO 15-10-2023 #36	16-10-2023 TO 22-10-2023 #37	23-10-2023 TO 29-10-2023 #38	30-10-2023 TO 05-11-2023 #39
<b>ITEMS /WORKS</b>													
<b>ADULTS DETECTION</b>													
DATE FIRST DETECTION	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023
DATE LAST DETECTION	01-08-2023	01-08-2023	01-08-2023	01-08-2023	01-08-2023	01-08-2023	01-08-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023
N° TOTAL DETECTIONS	934	934	934	934	934	934	935	935	935	935	935	935	935
N° WEEK SINCE LAST DETECTION	1	2	3	4	5	6	0	1	2	3	4	5	6
N° OF TRAPS AT WORKING AREA	1.541	1.542	1.674	1.680	1.700	1.700	1.702	1.702	1.702	1.702	1.713	1.718	1.729
N° OF TRAPS INSPECTION	52.001	54.837	56.457	59.510	62.605	65.119	68.060	71.001	73.925	76.821	79.760	82.705	85.627
INSPECTION FREQUENCY	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK
<b>DETECTION OF INMATURE STAGE</b>													
FIRST LARVAL FOCI	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023
LAST LARVAL FOCI	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023
N° OF DETECTED LARVAL FOCIS	162	162	162	162	162	162	162	162	162	162	162	162	162
N° OF WEEKS SINCE LAST LARVAL FOCI	0	1	2	3	4	5	6	7	8	9	10	11	12
N° OF PLACES VISITED	78.158	81.320	84.548	89.022	91.439	92.465	94.297	96.618	99.085	102.233	104.679	105.511	106.449
N° OF PLACES WITH FRUIT SAMPLES	10.394	10.660	10.938	11.352	11.524	11.670	11.822	12.067	12.240	12.352	12.503	12.575	12.663
N° FRUIT SAMPLE ANALYZED	41.734	42.906	43.910	45.608	46.453	47.868	49.064	50.526	52.047	52.585	54.317	55.258	56.131
N° OF FRUIT UNITS ANALYZED	356.815	366.631	374.657	389.315	396.699	410.974	422.494	436.369	450.527	456.747	475.510	488.885	500.928
N° FRUIT KILOS ANALYZED	19	20.135	20.671	21.873	22.400	23.409	24.373	25.517	26.688	27.008	28.855	29.517	29.935
N° FRUIT SPECIES ANALYZED	35	35	35	35	48	53	53	54	56	56	56	58	58
UNITS OF INFESTED FRUIT	301	301	301	301	301	301	301	301	301	301	301	301	301
ACCUMULATIVE INFECTION PERCENTAGE (1)	0,08	0,08	0,08	0,08	0,08	0,07	0,07	0,07	0,07	0,07	0,06	0,06	0,06
N° OF FRUIT SPECIES INFESTED	9	9	9	9	9	9	9	9	9	9	9	9	9
<b>CONTROL FOR INMATURE STAGES AND ADULTS</b>													
LITERS OF INSECTICIDE APPLIED (SUCCESS -GF/120)	2.347	2.447	2.567	2.727	2.847	2.987	3.002	3.002	3.002	3.012	3.477	3.717	3.757
N° OF PLACES WITH SOIL TREATMENT	3.640	3.892	4.037	4.456	4.817	5.011	5.184	5.784	6.315	6.718	7.364	7.807	8.407
SQUARE MTS2 OF SOIL TREATMENT	507.447	515.172	522.267	535.763	542.597	554.778	562.427	575.066	584.806	596.521	608.010	616.728	624.084
LITERS OF DZN APPLIED	1.523.410	1.627.171	1.709.292	1.840.979	1.915.769	1.962.860	2.047.665	2.178.583	2.323.848	2.424.594	2.446.038	2.539.918	2.622.723
KILOS OF FRUIT STRIPPED	519.335	524.958	527.465	533.761	536.234	537.519	553.103	561.449	568.072	574.008	591.393	615.567	643.310
N° OF FRUIT SPECIES STRIPPED	30	30	30	30	30	30	30	30	30	30	30	30	30
<b>CYCLE ESTIMATION BASED AT SUMMATORY DAYS DEGRESS</b>													
FIRST CYCLE	23,37°D	49,95°D	69,06°D	104,27°D	123,60°D	159,97°D	25,98°D	73°D	100,22°D	154,46°D	213,91°D	266,08°D	316,4°D
SECOND CYCLE													
THIRD CYCLE													

(1):Units of fruit infested versus units of fruit analyzed



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WEEKS / REPORTS #	06-11-2023 TO 12-11-2023 #40	13-11-2023 TO 19-11-2023 #41	20-11-2023 TO 26-11-2023 #42	27-11-2023 TO 03-12-2023 #43	04-12-2023 TO 10-12-2023 #44	11-12-2023 TO 17-12-2023 #45	18-12-2023 TO 24-12-2023 #46	25-12-2023 TO 31-12-2023 #47	01-01-2024 TO 07-01-2024 #48	08-01-2024 TO 14-01-2024 #49	15-01-2024 TO 21-01-2024 #50	22-01-2024 TO 28-01-2024 #51
<b>ITEMS /WORKS</b>												
<b>ADULTS DETECTION</b>												
DATE FIRST DETECTION	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023	09-02-2023
DATE LAST DETECTION	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023	20-09-2023
N° TOTAL DETECTIONS	935	935	935	935	935	935	935	935	935	935	935	935
N° WEEK SINCE LAST DETECTION	7	8	9	10	11	12	13	14	15	16	17	18
N° OF TRAPS AT WORKING AREA	1.769	1.884	1.895	1.912	1.920	1.924	1.935	1.935	1.927	1.927	1.927	1.927
N° OF TRAPS INSPECTION	88.345	91.472	94.548	97.832	101.049	104.160	107.147	109.359	111.218	113.083	114.946	115.360
INSPECTION FRECUENCY	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK	TWICE A WEEK
<b>DETECTION OF INMATURE STAGE</b>												
FIRST LARVAL FOCI	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023	11-02-2023
LAST LARVAL FOCI	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023	09-08-2023
N° OF DETECTED LARVAL FOCIS	162	162	162	162	162	162	162	162	162	162	162	162
N° OF WEEKS SINCE LAST LARVAL FOCI	13	14	15	16	17	18	19	20	21	22	23	24
N° OF PLACES VISITED	107.989	110.464	112.417	115.763	119.496	125.064	127.064	128.405	131.621	135.389	140.798	140.798
N° OF PLACES WITH FRUIT SAMPLES	12.802	12.951	13.160	13.414	13.557	13.748	13.880	13.983	14.621	14.377	14.521	14.521
N° FRUIT SAMPLE ANALYZED	57.704	59.321	60.354	61.312	61.783	62.273	63.073	63.574	64.258	64.805	65.242	65.242
N° OF FRUIT UNITS ANALYZED	523.864	545.027	558.291	568.335	591.163	596.471	604.047	609.721	619.588	627.861	634.979	634.979
N° FRUIT KILOS ANALYZED	30.615	31.354	31.862	32.276	32.458	32.659	33.025	33.210	33.409	33.554	33.688	33.688
N° FRUIT SPECIES ANALYZED	59	59	59	60	60	60	60	61	61	62	62	62
UNITS OF INFESTED FRUIT	301	301	301	301	301	301	301	301	301	301	301	301
ACCUMULATIVE INFECTION PERCENTAGE (1)	0,06	0,06	0,05	0,05	0,05	0,05	0,05	0,06	0,06	0,06	0,06	0,06
N° OF FRUIT SPECIES INFESTED	9	9	9	9	9	9	9	9	9	9	9	9
<b>CONTROL FOR INMATURE STAGES AND ADULTS</b>												
LITERS OF INSECTICIDE APPLIED (SUCCESS -GF/120)	4.217	4.621	4.661	5.086	7.736	8.611	8.921	9.221	9.521	11.384	11.584	11.584
N° OF PLACES WITH SOIL TREATMENT	8.889	9.197	9.622	10.392	11.111	11.345	11.500	11.531	11.541	11.591	11.595	11.595
SQUARE MTS2 OF SOIL TREATMENT	631.081	641.620	651.655	660.656	667.916	676.025	680.758	681.928	682.349	662.778	683.084	683.084
LITERS OF DZN APPLIED	2.690.263	2.801.543	2.907.332	3.003.320	3.079.720	3.164.177	3.212.997	3.225.047	3.229.547	3.234.137	3.237.197	3.237.197
KILOS OF FRUIT STRIPPED	663.970	697.007	729.842	732.874	735.054	737.090	738.388	738.842	738.842	738.882	738.954	738.954
N° OF FRUIT SPECIES STRIPPED	30	30	45	45	45	45	45	45	45	45	45	45
<b>CYCLE ESTIMATION BASED AT SUMMATORY DAYS DEGRESS</b>												
FIRST CYCLE	336,61°D PLUS 5 ADULT DAYS											
SECOND CYCLE		61,86°D	155,21°D	237,45°D	326,77°D	341,84°D PLUS 5 ADULT DAYS						
THIRD CYCLE						10,30°D	110,89°D	193,71°D	270,16°D	326,47°D PLUS 2 ADULT DAYS	326,47°D PLUS 9 ADULT DAYS	326,47°D PLUS 10 ADULT DAYS

(1):Units of fruit infested versus units of fruit analyzed