

## SOME OF THE DIFFERENCES FOUND

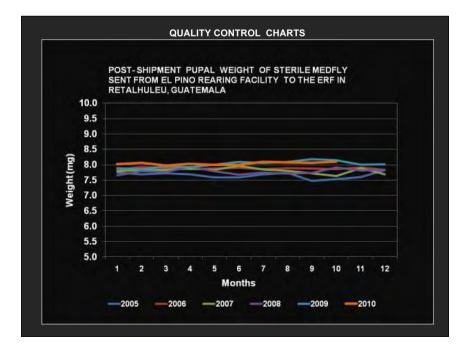
TABLE 5: Diet units and feeding surfaces provided to sterile flies in the different ERFs in relation to pupal density and feeding days.

	Reu <sup>1 2</sup>	Los Al	Sar <sup>1</sup>	Tap <sup>12</sup>	Hart <sup>33</sup>	Edn <sup>3</sup>	Rey <sup>3</sup>	Tij <sup>3</sup>		
Diet Unit length (Inch)	8 (P) (T)	4 (T)	6 (T)	18 (P) (T)	3 (T)	3 (T)	4 (T)	6 (P)		
Diet Unit width (Inch)	7.5	3	4	9.64	1.5	1.5	2	4		
Diet Unit height (inch)	1	1	0.75		0.75	0.75	1	1		
Diet Unit number	1	2	1	2 (T) 4 (P)	2	2	2	1		
Total Feeding Surface (Inch²)	1 x 151= 151	2 x 38 = 76	1 x 63 = 63	2x173=346 (T) 4x173=692 (P)	2x15.75 = 31.5	2x15.75= 31.5	2 x 28 = 56	1 x 28 = 28		
Pupae / Tray or PARC Box (x 1,000)	38.5 (P) 25 (T)	21(T)	25 (T)	60 (P) 21.4 (T)	13 (T)	13 (T)	10.52 (T)	30 (P)		
Days Feeding before Release	3	2	3-4	3	3-5	3-5	3-5	2		
Surface/Day/ 1000 Pupae	1.31 (P) 2.01 (T)	1.81	0.84 (3d) 0.63 (4d)	3,84 (P) 2.69 (T)	0.81 (3d) 0.48 (5d)	0.81 (3d) 0.48 (5d)	1.77 (3d) 1.06 (5d)	0.47		

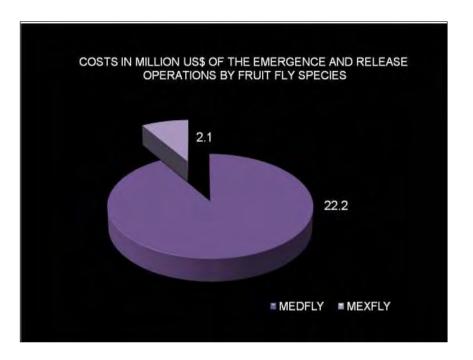
QC at arrival	Unit	Reu <sup>1</sup>	Tap <sup>1</sup>	Los Al <sup>1</sup>		Star <sup>1</sup>	Rey <sup>2</sup>	Hart <sup>2</sup>	Edn <sup>2</sup>	TIJ <sup>2</sup>
Нурохіа				26a	23b	27-33	2-3	3	2	29-33
Irradiation dose	Gy	100	120	145	145	145	80	80	80	-
Day of sampling/wk	Days	4	7	7	7	4	4	4	7	2
Size of sample/d	Thousands	225	140	17	17	6	18	15	10.7	1100
Size of sample/wk	Thousands	900	980	119	119	24	74	60	75	2200
Pupal weight	milligrams	7.82	7.2	7.7	7.7	7.3	16	17	17	18
Fly emergence	%	81.1	85.5	76.2	85.7	78	76	85	85	88
Flight ability	%	74.8	75.9	68.4	80.1	79	84	81	81	86
Longevity (48h1;72h2)	%	34.5	73	46	63	36	70	60	60	N/A
QC pre-chilling										
Day of sampling/wk	Days	5	7	N/A	N/A	4	4	N/A	N/A	2
Size of sample/d	Thousands	500	60	N/A	N/A	1	50.9	N/A	N/A	90
Size of sample/wk	Thousands	2500	420	N/A	N/A	4	211	N/A	N/A	180
Flight ability	%	71	75.9	N/A	N/A	70.3	85	N/A	N/A	89
QC post-chilling								N/A	N/A	
Day of sampling/wk	Days	5	7	7	7	4	4	N/A	N/A	2
Size of sample/d	Thousands	38.5	60	4	4	1	50	N/A	N/A	90
Size of sample/wk	Thousands	192.5	420	28	28	4	211	N/A.	N/A	180
Flight ability	%	95	73.1	60	74.5	N/A	83.3	N/A	N/A	85
QC post-release										
Holding time										
Fly emergence (50%) time	Hours	70	48	48	48	N/A	50	48-72	48-72	55
Fly age at release	Hours	71	72	48	48	72	100	3-5d	3-5d	55

<sup>1</sup> Data correspond to C. capitata; a= pupa from Guatemaia, b = pupa from Hawaii





<sup>2</sup> Data correspond to A. ludens



Modernization to implement new technologies, efficiencies, and worker safety.

Improve operational efficiencies with more permanent modular structures

Consider ISO certification for all ERFs.

Expand current "FFSIT Quick Place" Internet site as an information dissemination tool to include standard quality control data and other critical information from all production facilities and ERFs. Data should be managed so that comparisions can be made among ERFs.

Emergence and release facilities require the following:

Modernization to implement new technologies, efficiencies, and worker safety.

Standardization of operating procedures and quality control assessments.

Periodic review by an independent international panel for quality assurance.

Standardization of operating procedures and quality control assessments.

Increase the amount of food provided.

Establish QC protocols at all ERFs to evaluate absolute flyers and longevity with water but without food after the emergence, feeding, chilling and release process.

Increase the age of release

Compare the effects of different emergence systems, including varying the size (volume) of the containers and resulting fly density, on sterile male performance in the field.

Evaluations of the cost-effectiveness and operational use of protein in the adult diet, in conjunction with both hormonal and semiochemical supplements still needs to be conducted in fly emergence centres.

Periodic review by an independent international panel for quality assurance.

## **Dolly pushes inland**

Residents of south Texas got their first look Thursday at the destruction left by Hurricane Dolly that has now weakened into a tropical storm.



UPDATES storm path; graphic shows the projected path of Tropical Storm Dolly; 1c x 3 1/4 inches; 46.5 mm x 82.6 mm

SOURCES: NOAA; ESRI





Matamoros, Mexico, Thursday, July 24, 2008. Power was restored to large parts of Matamoros and floodwaters were dropping Thursday, a day after Hurricane Dolly hill. Officials said a man was electrocuted from a downed power line in this border city, the only death reported in Mexico from Dolly, which struck land just north of the border in Texas. (AP Photo)Image 7 of 20



**ACKNOWLEDMENTS** 

**REVIEW TEAM** 

PROGRAM PERSONNEL

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