

SUPPLEMENTARY Data

Transgenic *Aedes aegypti* Mosquitoes Transfer Genes into a Natural Population

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Table E1. Results of the INTROGRESS analysis as performed using the R package¹⁰ after subsampling the parental pre-release population to decrease the difference in sampling size between the two parental populations. We consider as a cutoff for introgressed samples, $h\text{-index} > 0.04$, four times the maximum observed in pre-release samples, and $h > 0.06$, the maximum observed in the post-release Centro population.

Population (sample size)	Hybrid index (h) Range (mean)	Number of samples with h-index > 0.04	Number of samples with h-index > 0.06
OX513A strain (25)	0.99-1.00 (0.999)		
F1 hybrids 6 months (57)	0.437-0.542(0.494)		
Pre-release (50)	0.000-0.009(0.002)	0	0
Centro (25)	0.000-0.009 (0.00066)	0	0
Catuaba/Pedra (25)	0.000-0.002(0.000084)	0	0
Post-release			
Catuaba 6 months (93)	0.006-0.150(0.040)	30 (32.2%)	11 (11.8%)
Catuaba 12 months (35)	0.012-0.146(0.051) 0.012-	22 (62.8%)	11 (31.4%)
Catuaba 27 months (21)	0.14(0.035)	5 (23.8%)	1 (4.8%)
Inocoop 12 months (44)	0.008-0.152(0.045) 0.009-	20 (45.5%)	8 (18.8%)
Inocoop 27 months (26)	0.14(0.034)	5 (19.2%)	4 (15.4%)
Pedra Branca 6 months (6)	0.019-0.035(0.027)	0	0
Pedra Branca 12 months (56)	0.016-0.186 (0.066)	23 (41.1%)	10 (17.9%)
Pedra Branca 27 months (22)	0.021-0.117 (0.066)	5 (20.8%)	4 (18.2%)
Centro 6 months (16)	0.012-0.039(0.021)	0	0
Centro 12 (14)	0.016-0.064(0.033)	3(21.4%)	0
Centro 27 months (7)	0.008-0.034 (0.018)	0	0

Table E2. Summary of level of introgression over time. All neighborhoods are combined: Catuaba, Pedra Branca, Inocoop, and Centro.

	6 months	12 months	27 months
N (total sampled)	115	149	83

N with $h > 0.02$	29 (25%)	50 (34%)	15 (15%)
N with $h > 0.04$	10 (9%)	34 (23%)	9 (11%)

Figure E1. Distributions of Q values from ADMIXTURE (18). ANOVA indicates samples from samples at six and 12 months in Catuaba and 12 month samples from Pedra Branca and Inocoop are significantly different from pre-release at $p < 0.05$, TukeyHSD test.

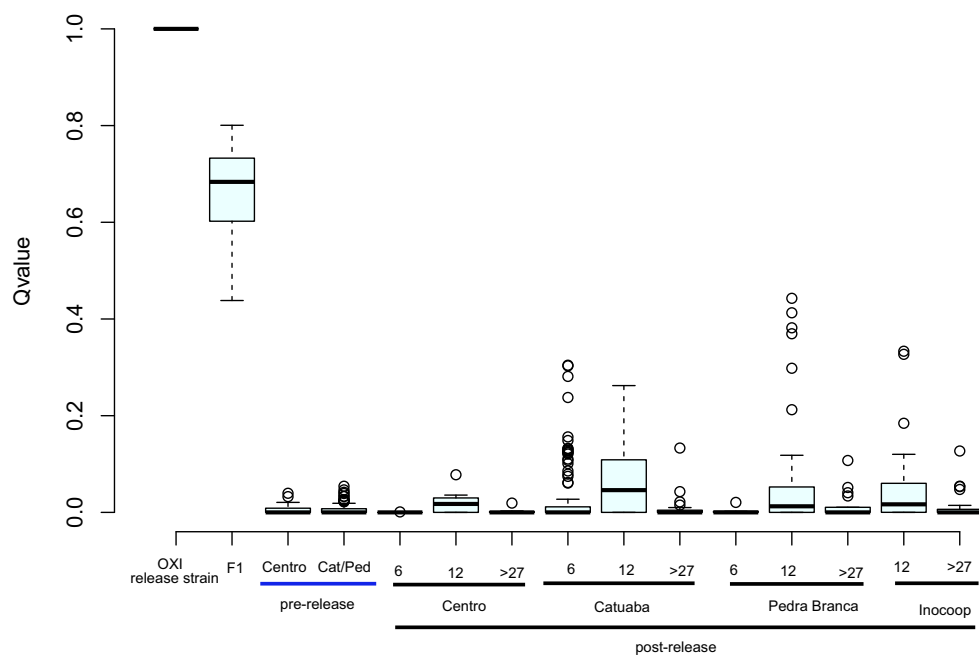


Figure E2 Principal Components Analysis based on ~16,000 SNPs. Red and blue are Jacobina pre-release, light blue F1 between pre-release and OXI513A labeled RIDL, green OX51213S, purple Rockefeller lab strain, and black Amacuzac, Mexico

