ANOPHELES GAMBIAE COMPLEX

Parent Strains.

Species	% hatch	% adults from eggs	% adults from larvae	<u>% ởở</u>	No. of adults
		eye = gay			· · · · ·
A	52.3	42.1	71.9	49.2	933
В	30.3	24.1	79.6	47.9	331
merus	58.9	54.6	73.8	48.5	562

Crosses.

Charles and Charle	Scientific St.	- 00 = 00 minute 8 × 5	
<u>Female</u>	x Male	% adult of	No. of adults
В	A	47.9	742
A	В	44.9	1330
C	A	93.5	655
A	C	37.2	671
C	В	80.5	82
В	C	49.2	65
merus	C	48.4	185
C	merus	38.4	190
merus	A	82.0	802
A	merus	35.3	893
merus	В	100.0	156
В	merus	38.4	237

Egg measurements.

Species	n	X	Range in Mm.	<u>S</u>	SX
A (Kisumu)	199	0.483	0.429-0.525	0.0181	0.0013
A (Muheza)	100	0.490	0.397-0.531	0.0252	0.00252
B (Tinonganine)	100	0.487	0.442-0.544	0.0205	0.0020
C (Balegane)	100	0.474	0.435-0.518	0.0161	0.0016
merus (Tanga)	200	0.566	0.512-0.634	0.0244	0.00173
merus (L'Isle d'Ambre Mauritius)	45	0.562	0.525-0.614	0.019	0.0020
merus (Pt. aux Piments n Mauritius)	90	0.566	0.525-0.634	0.020	0.00298
merus (Big Bend Swaziland)	50	0.546	0.512-0.582	0.0160	0.00227
merus ⁹ x Ad (Kisumu) F, (Tanga)	100	0.545	0.435-0.589	0.0234	0.00234
A9 (Kisumu) x merus (F, (Tanga)	100	0.493	0.454-0.535	0.017	0.0017
merus ⁹ x Ad (Diggi)F, (Tanga)	50	0.544	0.493-0.595	0.0231	0.00329
Aº (Diggi) x merus F	50	0.508	0.461-0.557	0.0213	0.00302

(Forpublication 5 of 550 should be correlied to 3 decinal places.)

Salinity tolerance tests.

T.7.*	salinity	45%	50%	53%	55% 57%		
Kisumu A	mortality	3/25	6/25	11/25	19/25 24/25		
	(2 hours)		$LC_{50} = 52.5\%$ S.W.				
					*		
77.	salinity	4 0%	50%	55%	60%		
Kisumu A	mortality (2 hours)	2/25	0/25	15/25	22/25		
	(2 Hours)		LC ₅₀ = 52.9% ≤.₩.				
Big Bend	salinity	100%	110%	115%	125%		
merus	mortality (3 hours)	3/19	4/19	6/19	14/19		
	(o nours)		IC ₅₀ = 121.3% S.ω				
Big Bend	salinity	115%	120%	130%	140%		
merus	mortality (2 hours)	4/20	14/20	10/20	14/20		
	(~ mours)		LC ₅₀	5.W.			
Big Bend	salinity	115%	120%	130%	140%		
merus	mortality (2 hours)	1/20	5/20	7/20	11/19		
	mortality (3 hours)	9/20	12/20	17/20	18/20		
	,	LC ₅₀	(2 hrs) =	= 137.4%	S. W.		
		LC ₅₀	(3 hrs) =	= 116.9%	S.W.		

100% salt water = 31.7 g./litre NaCl. Temp. 80 F.

Tanga	salinity	100%	110%	1 1 5	% 1:	20%	
merus	mortality (2 hours)	9/25		5 24/		1/25	
	(S Hours)		LC_5	o = 104.	3% S.W	۲.	
					2		
Tanga	salinity	60%	70%	80%	90%	100%	120%
merus		3/25	0/25	0/25	2/25	6/25	16/25
	(2 hours)		LC ₅	0 = 113%	ς.ω.		
Mi	salinity	30%	35%	40%	45%		
Tinonganine B	mortality	0/17	1/17	5/17	13/1	7	
	(2 hours)		LC ₅	0 = 41.7	% S.W.		
77	-01	cod	nod	200	o E of	0.00	,
A (Diggi) 9	salinity	60%	70%		85%	90%	
merus (Tanga)	mortality of (2 hours)	6/12	11/1	2 12/1	2 12/1	12/	12
		A	224			1	
	salinity	55%	60%				
	mortality (2 hours)	3/20	5/2	0 7/2	0 14,	/20	
		com	oined L	$C_{50} = 64$.4% S.W		
\mathbb{F}_{1} of	salinity	60)%	70%	80%	85%	90%
merus (Tanga)	mortality (2 hours) 1/	15	5/12	11/12	15/15	12/12
A (Diggi)ď	salinity	. 60)%	70%	75%		
	mortality				1/12		
	(2 hours			•	go control of		
					full .	01	0 6

combined LC50 = 66.7% Sw.