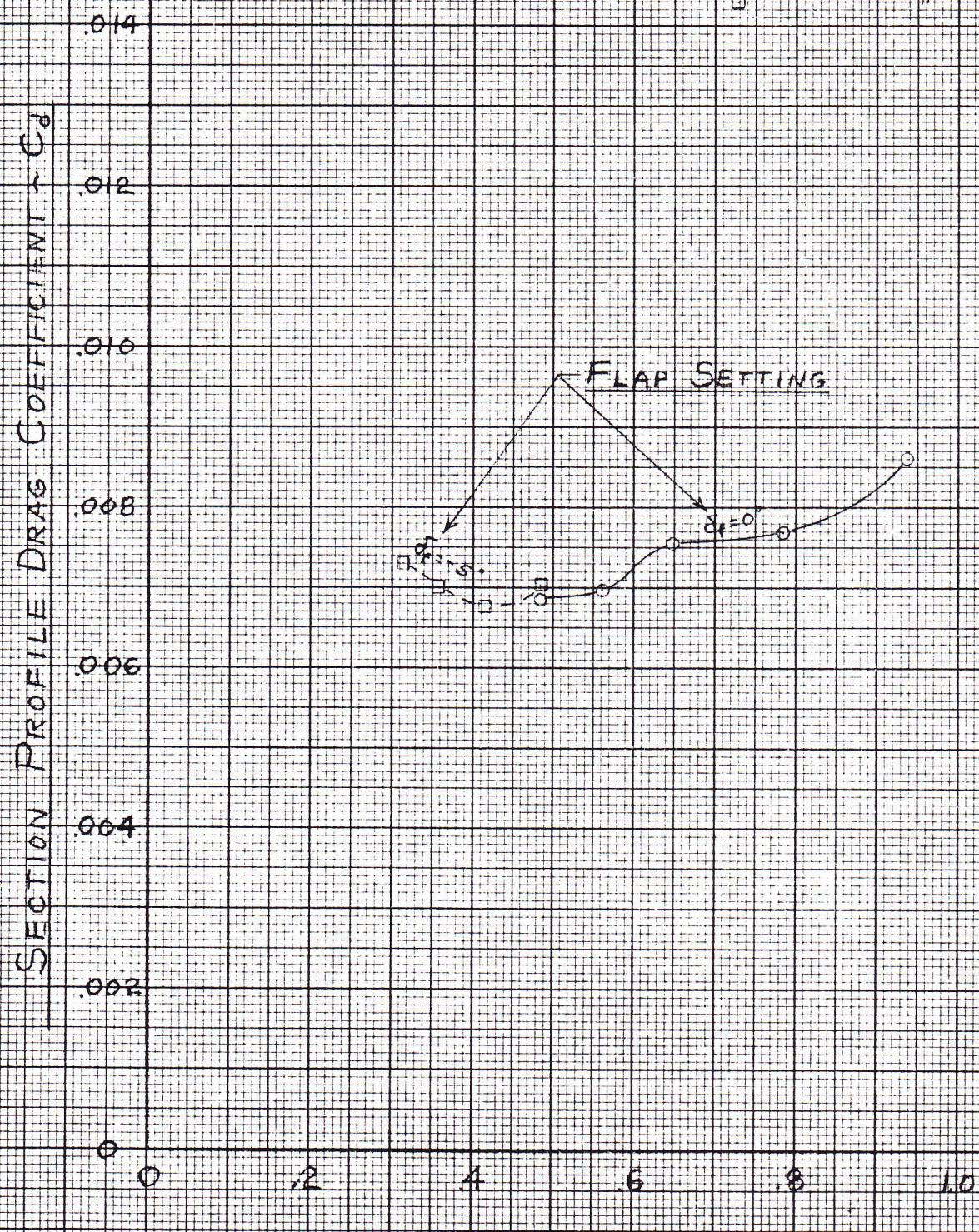
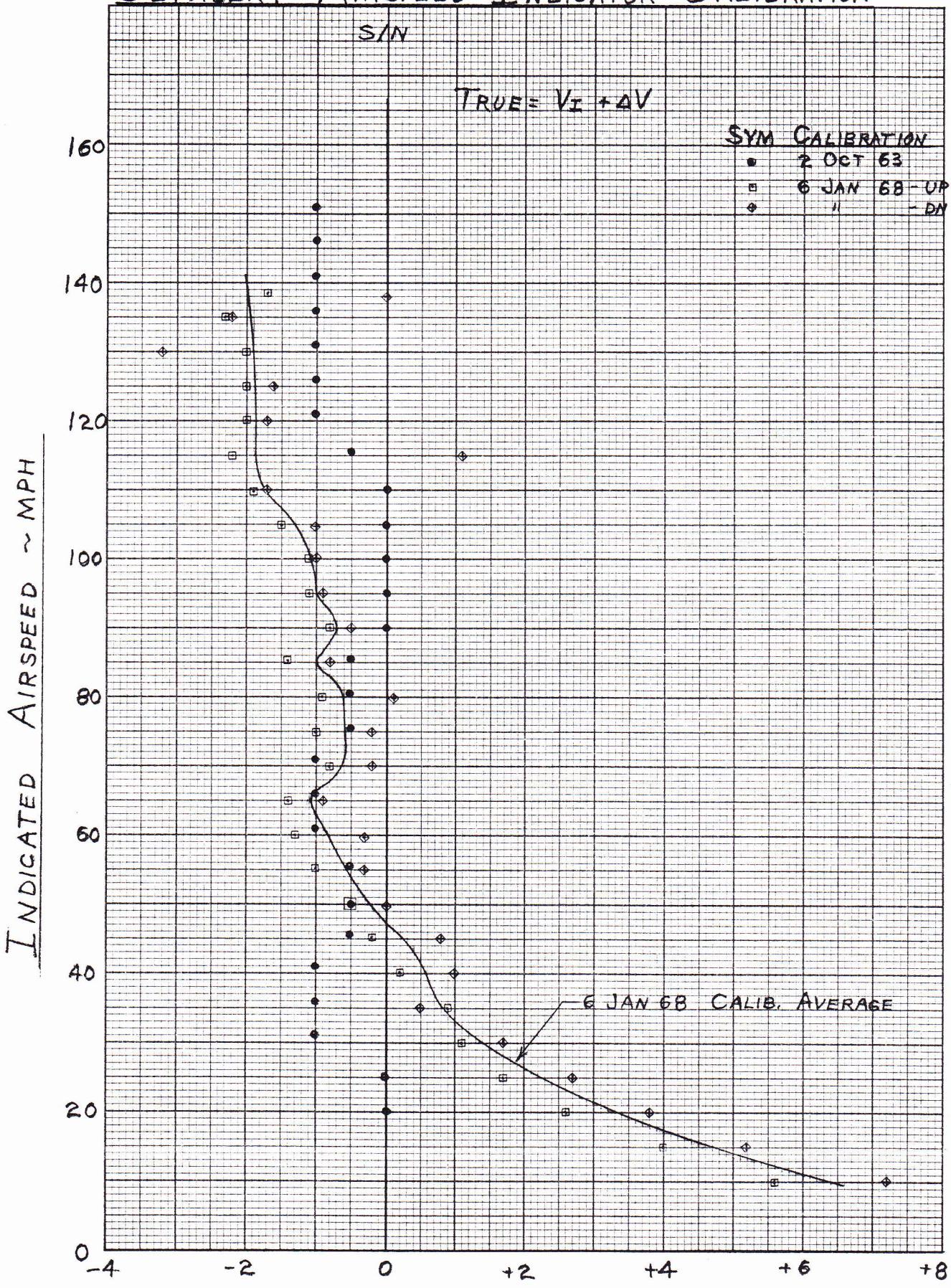


HP-1B WING SECTION
PROFILE DRAG MEASUREMENTS
WAKE RAKE METHOD

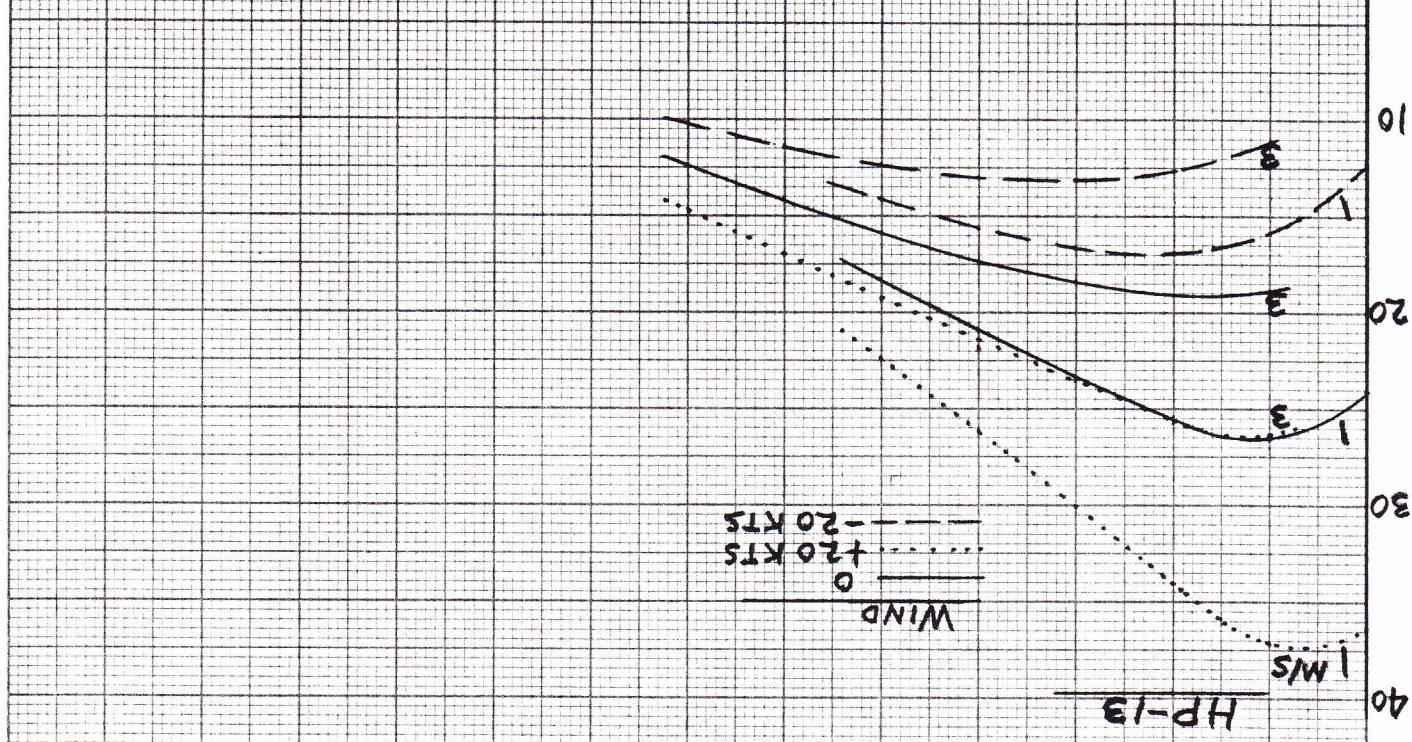
SYM	TEST DATE	TEST CHORD	FLAP SETTING
○	4/13/67	3.17 FT	0°
□	"	"	-5°



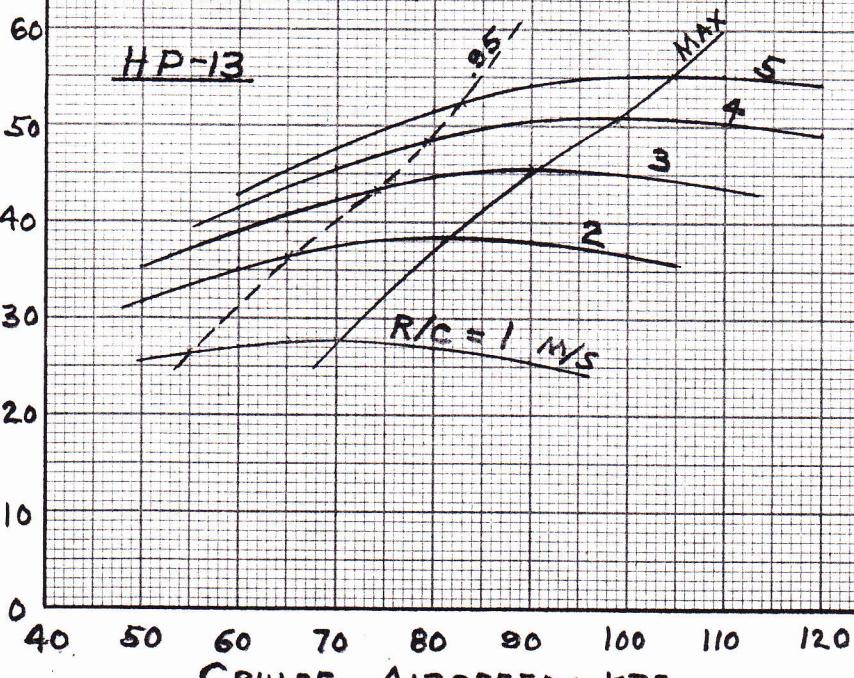
GETABERY AIRSPEED INDICATOR CALIBRATION



10 x 10 TO $\frac{1}{2}$ INCH 461323
7 x 10 INCHES MADE IN U.S.A.
KLEUFFEL & LESSER CO.



VAVE ~ KTS



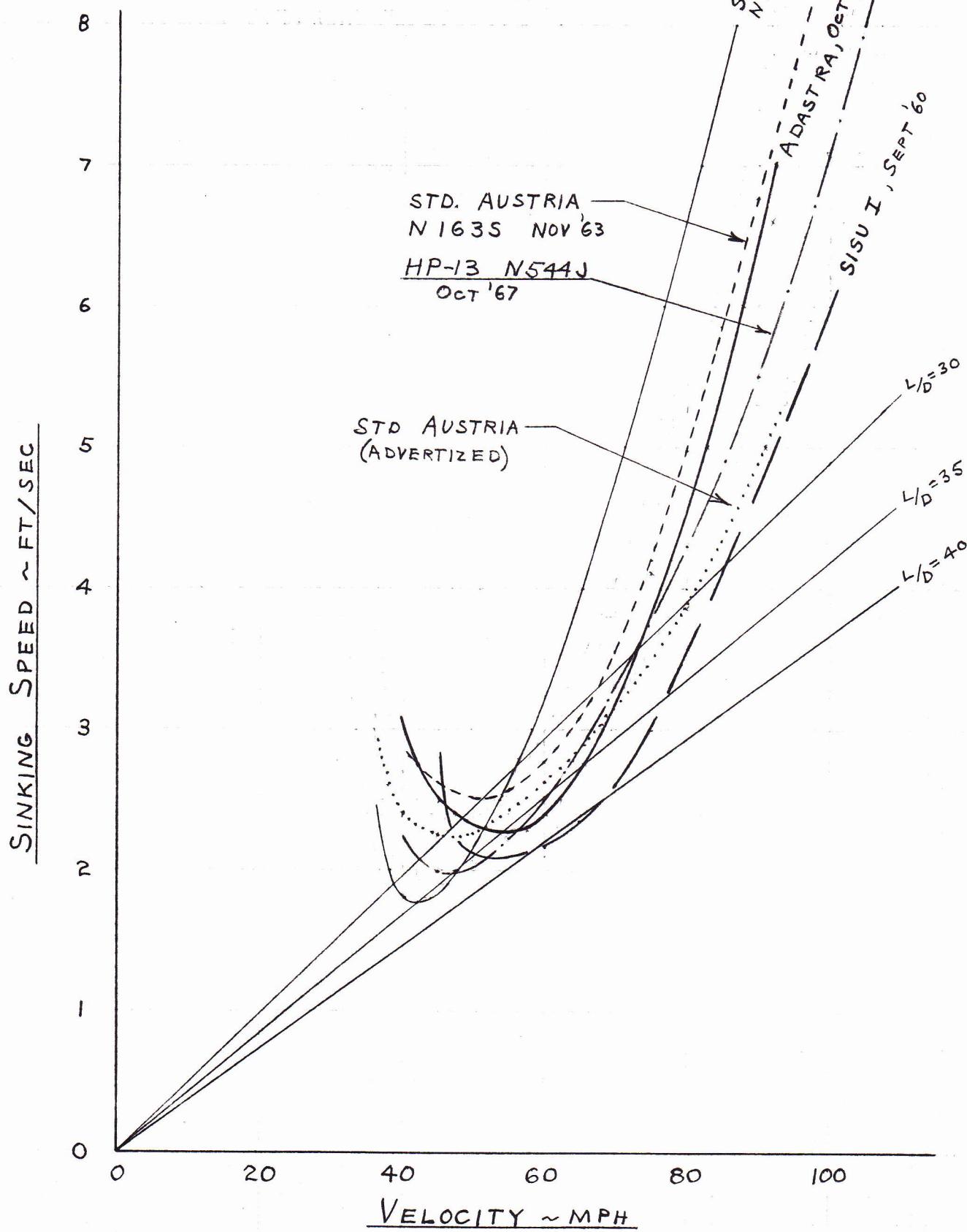
$$V_{AVG} = \frac{1}{R+C} = \left(1 + \frac{R_S}{R_C}\right)$$

UNIVERSAL PLANNING FORM T1-3145

HP - 13

										L/D				
					V_c		V_c							
					R/S_o E_t / sec	R/S F_p	$R/S/R/C$	$1 + \frac{R/S}{R/C}$	V_{AVG}	N_o WIND	20 KT TAIL	N_o WIND	20 KT HEAD	
1	$R/C = 1 M/s = 3.28 ft/sec$				40	2.03	3.08	.94	1.94	2.06	67.5	10.5	34	
2		50	2.37	3.42	1.04	2.04	2.45	84.5	11.85	54.5	24.7	34.7	14.8	
3	$V_{DD} = 2(RC + 2) = 1.05 ft/sec$	60	3.22	4.21	1.30	2.30	2.61	1.01	1.35	67	23.6	31.6	15.7	
4		70	4.33	5.38	1.64	2.64	2.65	118	1.52	84	21.9	28.2	15.6	
5		80	5.88	6.93	2.11	3.11	2.57	135	1.69	1.01	21.9	24.4	14.6	
6		90	8.30	9.35	2.85	3.85	2.34	152	1.86	1.38	16.3	19.9	12.6	
7														
8	$R/C = 2 M/s = 6.56 ft/sec$	50	2.37	4.07	.62	1.62	1.62	30.8	84.5	11.85	30.5	20.8	29.2	12.4
9		60	3.22	4.92	.75	1.75	34.3	101	135	67	20.5	27.4	13.6	
10	$V_{DD} = 1.70 ft/sec$	70	4.33	6.03	.92	1.92	36.5	118	152	84	19.5	25.2	14.0	
11		80	5.88	7.58	1.16	2.16	37.0	135	169	101	17.8	22.3	13.3	
12		90	8.30	10.00	1.53	2.53	35.6	152	186	118	15.2	18.6	11.8	
13		100	11.20	12.90	1.97	2.97	33.7	169	203	135	13.1	15.7		
14														
15	$R/C = 3 M/s = 9.83 ft/sec$	50	2.37	4.73	.48	1.48	33.8	84.5	11.85	50.5	17.8	25.0	10.7	
16		60	3.22	5.58	.57	1.57	38.2	101	135	67	18.1	24.2	12.0	
17	$V_{DD} = 2.36 ft/sec$	70	4.33	6.69	.68	1.68	41.6	118	152	84	17.6	22.7	12.6	
18		80	5.88	8.24	.84	1.84	43.5	135	169	101	16.4	20.5	12.3	
19		90	8.30	10.66	1.09	2.09	43.1	152	186	118	14.3	17.4	11.1	
20		100	11.20	13.56	1.38	2.38	42.0	169	203	135	12.5	15.0	10.4	
21		110	14.30	16.66	1.70	2.70	40.7	186	220	152				
22														
23	$R/C = 4 M/s = 13.13 ft/sec$	60	3.22	6.22	.47	1.47	40.8	101	135	67	16.2	21.7	10.8	
24		70	4.33	7.33	.56	1.56	44.8	118	152	84	16.1	20.7	11.4	
25	$V_{DD} = 3.00 ft/sec$	80	5.88	8.88	.67	1.67	47.9	135	169	101	15.2	19.1	11.4	
26		90	8.30	11.30	.86	1.86	48.4	152	186	118	13.5	16.5	10.4	
27		100	11.20	14.20	1.08	2.08	48.1	169	203	135	11.9	14.3	9.5	
28		110	14.30	17.30	1.32	2.32	47.4	186	220	152	11.2	12.7	9.1	
29														
30	$R/C = 5 M/s = 16.40 ft/sec$	60	3.20	6.85	.42	1.42	42.2	101	135	67	14.7	19.7	9.8	
31		70	4.33	7.98	.49	1.49	47.0	118	152	84	14.8	19.0	10.5	
32		80	5.88	9.53	.58	1.58	50.6	135	169	101	14.2	17.7	10.6	
33	$V_{DD} = 3.65 ft/sec$	90	8.30	11.95	.73	1.73	52.0	152	186	118	12.7	15.6	9.9	
34		100	11.20	14.85	.90	1.90	52.6	169	203	135	11.4	13.7	9.1	
35		110	14.30	17.95	1.09	2.09	52.6	186	220	152	10.4	12.3	8.5	
36														
37														
38														
39														
40														
41														

DALLAS GLIDING Association
COMPARATIVE PERFORMANCE
 ACTUAL FLIGHT TEST PERFORMANCE
 EXCEPT WHERE NOTED



8 Oct 63