FUNCTIONAL RESPONSE - SM Amphs.

assumed to be Type II \mathcal{O}

1 Use Random pred egn.

$$X = Ne$$

$$Y = I_{\eta} \left(\frac{N - Ne}{N} \right)$$

	10	20	30	40	60
*	Ne	W Ne	Ny Ne	N Ne	¥ Ne
0-4	6	0.45 11	0.4 18	0.35 26	0.576 29
0.6	4	035 13	0.63 11	61 722.0	0.433 34
0.3	7	0.25 15	0.43 17	0.475 21	0.47 32
0.5	2	0.6 8	0.5 15	0.25/ 13	
0.45	5.5	9-4120 11 7e	0.49 15.25	0.47 21.25	0.47 31.67

0.298

Vb/a= 3-0.83

VTh = 0.103mm

Va = 0.028 mil

3 assume Tt = 30

$$a = 0.026 \text{ min}^{-1} (per 3 high)$$

Co. Sec. (Annual Landon de Angles

10 7.68

20 5. 10.

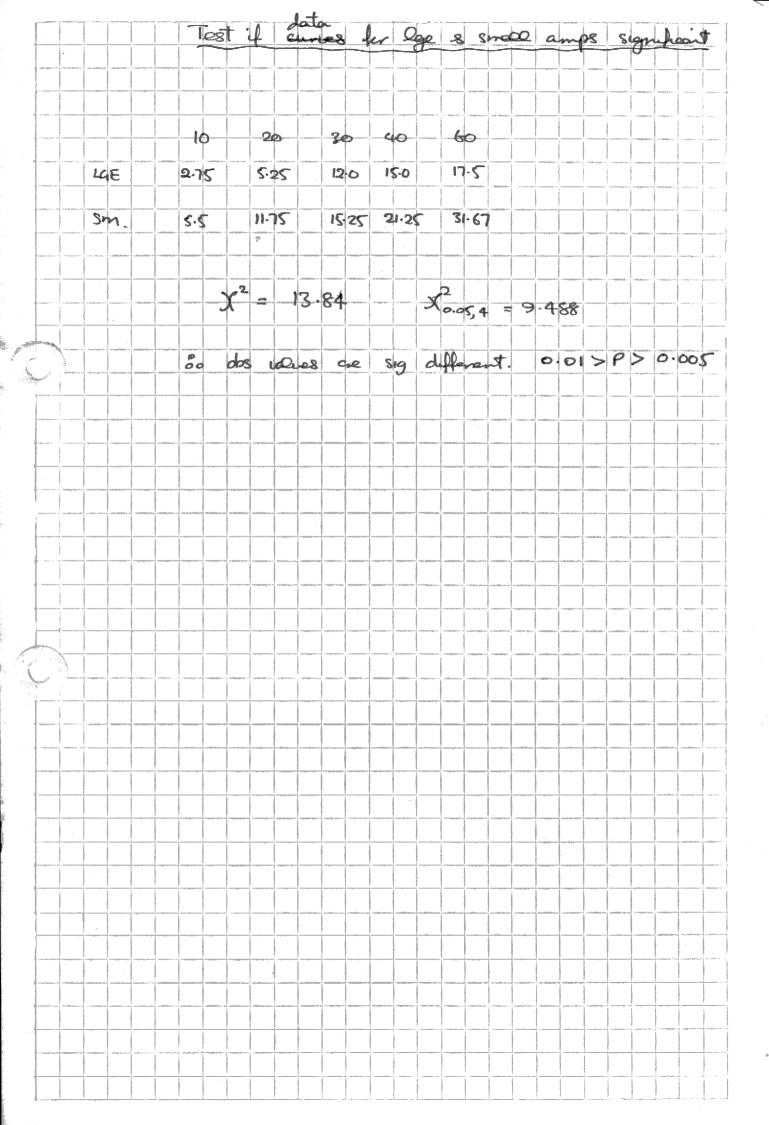
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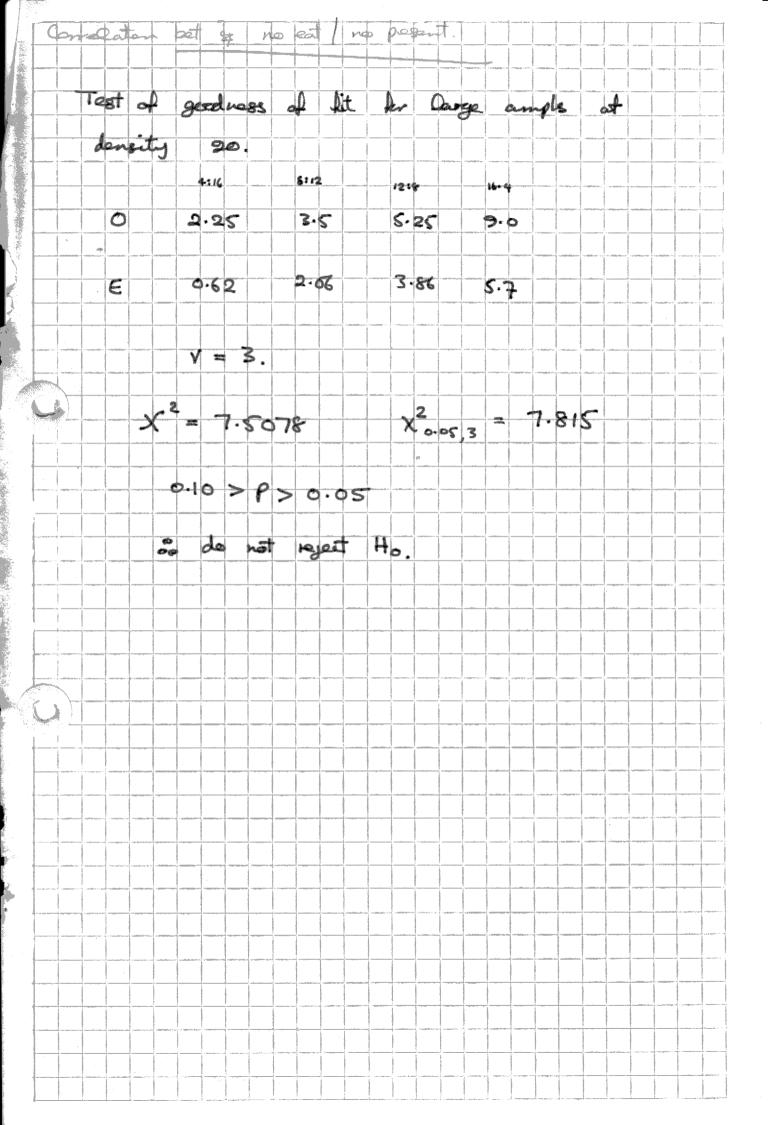
$$y = ax + b$$

$$y' = ax + b'$$



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	-	4.50	***	8.92	6.63	13-25	1.31	n.45	3.05	51.62	3.00	25.73	4-34

ATHT.

Proportion of prey eaten preduted born Predator - pey egns.

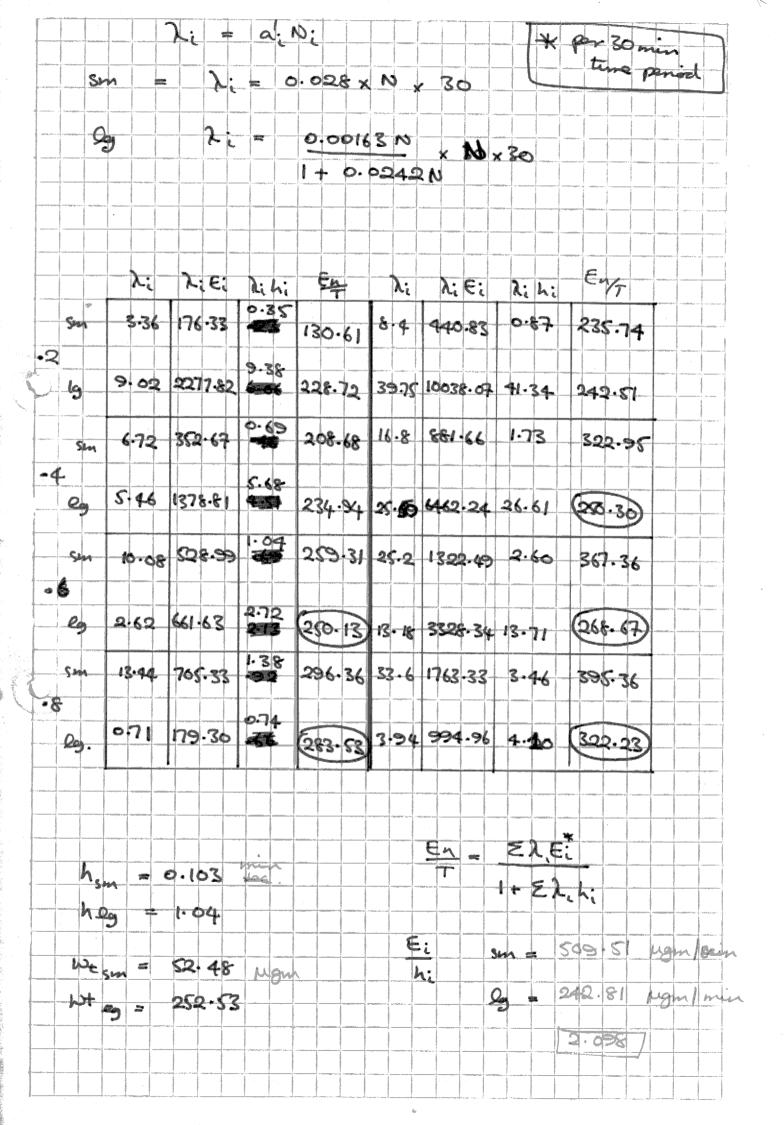
Using

T= 30 a = 0.028 Th = 0.103

Ts=30 b=0.00163 c=0.0242 Th= 1.042. 14

READ 10 NAT ADDRESS TI TZ THI THE AI CE BZ.

	S	C	1		5.	•	<u>ه</u>	çķ	
8	BOTH PAN LIFE			42.15 65.94 347.23	35.28 375.28	77-04 102-75 257-65	224.25 301.20	122.17 135.03 109.59	213.50
0,5	BOTH SM. L.S.	16.44 39.44 376.52	362.81	3946 86.20 2×.72	267.13	59.725 25.50 HO-LL 46.561 85.38 TS:1F	163.84	105.43 HS.62 75.76	76.46 175.83
0.\$	goth on cq	15.43 23.62 314.4	305.34	5.81 237.63	\$20.58 CL 33.0	109.60 SS:03 WH. 22	140.66 228.01	FF-12 8T-18 31-18	50-25 137-4J
QM)	5 Kg	6.87 237.63	233.09	G C	ar type - type gan t	47.44 52.53 103.60	35.20	53 33.08	31.56
20	27 CE #102	\$ =	EW.9	23.62 109.6		120.65 Tr. 12 72.75 34.55		4.29 4.08 4.81 15.91	45.12 45.13
9	North Ch	30		50 -52 -53 -53 -53 -53 -53 -53 -53 -53 -53 -53		44.07		23.62	4.8



Estimaten of handing time for lege amphs him porten of curve above infloration Using random pred model.

30	40	60
8	16	18
11	16	23
17	17	12
12	11	14

$$Y = \ln \left(prop \text{ host surv} \right)$$
 $X = Ne$

$$\frac{N - Ne}{N}$$

	30	40		60	
4	X	Ā	×	$\overline{\lambda}$	×
- 0.310 - 0.456 - 0.836 - 0.511	8 11 17 12	- 0.355 - 0.223 - 0.211	16 16 17	- 0.357 -0.463 -0.266	18 23 15
-0.528	15	-0.474	15	- 0. 348	17.5

Ragressiais	ALL DATE	-0.9282577	SE THIS
r Intept	- 0·37 - 0·232	- 0. 9282527	ONE
slope	<u>-</u> 0.0147	0.0322418	
Th	-1.901104	Th = 1.042013	
<u>a</u>	0.0077377	a = 0.0309418	
T_{s}	30	T ₃ = 30	$\mathcal{N}_{\mathbf{v}}$

Estimaten af constants b & c for attack rate in signised acree for large amphipeds

Ω <u>s</u>	<u>eine</u>	means of	now dates with	Tn = 1.0 min
	N 10 20	X (a) 0.013	7 (a/N) 0.0013 0.00064	$a = \frac{6n}{1+cn}$
	30 40	0.0327	858000.0	Rogressien egn N = b-ca
rije	60	0.0337	0.0005608	: Intercept = b Slape = -c

:	ALL POINTS	Excusing 20	
r	-0.27	-0.77	USE THIS
Slope (6)	0.0073613	0.0242	ONE
Intept (b)	0.0010697	0.00163	

ie
$$a = \frac{0.00163 \, \text{N}}{1 + 0.0242 \, \text{N}}$$

Constant

TYPE II (Sm amps) Ts = 30 a= 0.028 Th = 0.103

Type III (eg amps) Ts = 30 b = 0.00163 c= 0.0242 Th = 1.042

<u>S</u> 1	<u>~</u>	FO	RII-DAT	= ATH, T	-			
	N	Ne	pred	₩				
	10	5.5	5.61					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(°	20	1175	11-09				2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
<u> </u>	30	15.52	16-42					en region and control following and control
	40	21.25	21.62		The second district, again manager is the second district for the	The state of the s	To the second se	
	SO		26.69		And are a state of the state of	og o	Annual State of the Control of the C	
	60	31-67	31.62				To the second se	

<u>_</u>	1	FC	ORII . DAT	T = C, B, TH, T	
	N	Ne	preol.		
-	10	275	2.98		
	20	2.52	7.69		
	30	12.0	11.83		
)	40	15.0	15.11		
•	50	15	17.54		
_	60	17.5	19.39		

N	Na 3.12	Na 3.13	NA EXP		
10	2.98	2.73	2.75		
20	7.69	7.03	5.25		
30	11 - 86	11.05	12.0		
40	15.14	14.38	15.0		
20	17.62	16.99	ggrad.		
60	19.48	18.99	17.5		

		1	ggrand	
10	20	30	40	60
0.0035	6.0.0125	8 0.0111	16 0.0196	18 0.0140
5 0.0241	3 0.0056	11 0.0168	16 0.0196	23 0.0200
3 0.6122	7 0.0152	17 0.0325	17 0,0215	15 0.0190
2 0.0076	5 0.0100	12 R1849	PRED	14 0.0100
× 0.0069	0.0108	3810.0	.0043	, 613.212
attack with home		d him in	s data at	Carge ampli

	e colcupated -	bun vans data	(lege amphs)	Th = 1.0 min Tt = 30 min
Ne N 10	70	30	40	60
1 0.0036	6 0.0149	8 0.0141	16 0 0365	18 0.0297
5 0.0277	3 0.0060	11 0.0240	16 0.0365	20 0691
0.0132	7 9 0187			
0.205.		17 0 0643	17 0 0426	15 0.0192
2 0.0080	7 0 0115	12 0.0284	11 0.0169	14 0 0166
5 0.013	0.012/775	0.0327	.033/12	.03365

Itentive solve to two prey coms.

VARIABLE LST	CONST LIST	EQNS
NA 1	T1	T11
N 1	TH1	
NAT1	A 1	ΤⅢ
NA2	T2	
102	TH2	
NATO	C 2	
	ba	

- 1) Input estimated (or stert) values for NATI and NATZ.
- @ Input NATI, NATO into TIL cale -> NA1
- 3 Input NAT2, NA1 into TILL cale -> NA2
- @ Check DIFF bet NAI NATI and NAZ NATZ
- (5) IF Greater than 0.1 Det NAT1 = NA1 and NAT2 = NA2 and return to (2)

TYPEII . FOR

SUBSTITUTING A= BN/1+CN.

```
REAL N, NA, NAT, A, TH, T, B, C
      READ (10, +) B, C, TH, T
      Do 30 I = 10,60, 10
      NAT = 1.0
       N= I
       A= -B*N/ (1+C*N)
      NAT= NAT+ 0.05
20
      NA = N*(1-EXP(A*(T_PAT * TH)))
      DIFF = ABS (NA - NAT)
       IF (DIFF, GT. 0.1) GO TO 20
       WRITE (5, 12) N, NA, A
       FORMAT (SX, 3F10.2)
 12
       CONTINUE
 30
        STOP
        END
```

$$a = bN$$
 $1+cN$

sub Dinto 3

RAND PRED EON

HASSEL SIGNUID EDW

REAL NA1, NA2, N1, N2, NAT1, NAT2

READ (10, +) T1, T2, TH1, TH2, A1, C2, B2

READ (S, +) N1 N2

NAT1 = 0.2 + N1

20 + 2.0 = 2 TAG

NA1 = N1 * (1 - EXP(-A1 * (T - NAT1 * TH1 - MAS * TH2)))

NA2 = N2 + (N2 - NAT2) + (C2 + ALOG ((N2 - NAT2)/N2) -

DIFF1 = ABS (NA1 - NATI)

DIFF 2 = ABS (NA2 - NATE)

DOES NOT NORTE

IF (DIFF 1. . 0.5. . DIFF 2. . 0.5) 90 TO 30

NAT1 = NA1

CAM = CTAM

90 TO 20

CONTINUE 30

WRITE (5,6) NA1, NA2 6 FORMAT (2, F10.2)

€ND

T1 = 30 T2 = 30 T41 = 0.1 TH2 = 1.1 A1 = 0.028 C2 = 0.0243 B2 = 0.00163

ITERITIVE PROGRAM TO SOLVE SIGNOID CURVE WITH HASSEL'S EQN.

```
REAL N, NA, NAT, C, B, TH, T
       READ (10, +) C, B, TH, T
       NAT = 1.0
      DO 30 I = 10,60,10
       N=I
       NAT = NAT + 0.05
20
       NA = N*(N-NAT) * (C * ALOG ((N-NAT)/N) - b * TH * NAT + b * T)
       DIFF = ARS (NA - NAT)
       IF ( DIFF. GT. 0.5 ) GO TO 20
       WRITE (5,12) N, NA
       FORMAT ( 5x, 2F10.2)
 30
       CONTINUE
       STOP
        用るり
```

SIGMOD. FOR

$$N_{h} = N(N - N_{h}) \left[c \log \left(\frac{N - N_{h}}{10} \right) - b T_{h} N_{h} + b T_{h} \right]$$

$$= N_{h} T_{h}$$

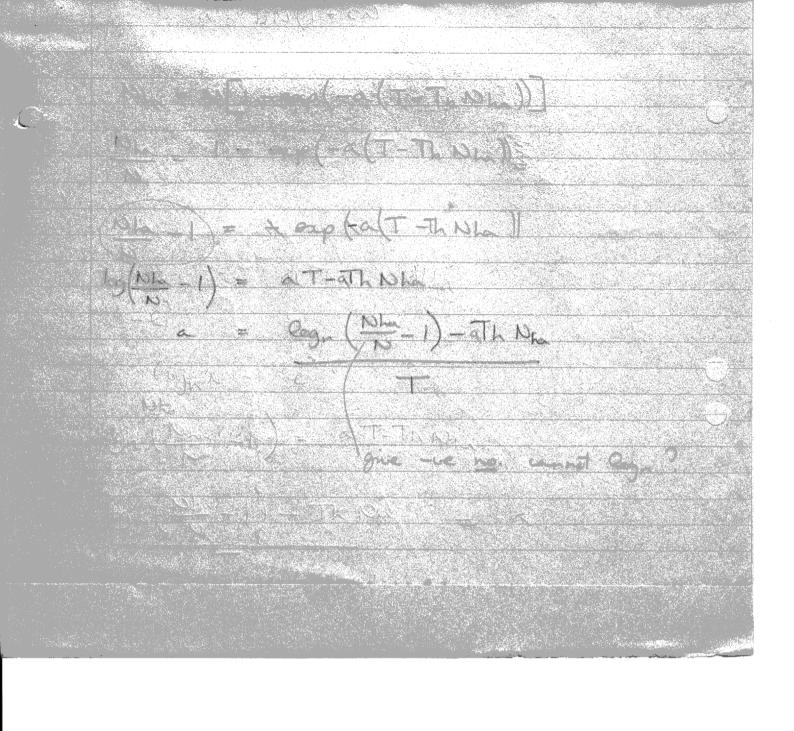
$$= N_{h} T_{h}$$

$$N_{h} = N(N - N_{h}) \left[c \log \left(\frac{N - N_{h}}{10} \right) - b T_{h} N_{h} - T_{h} N_{h} + b T_{h} \right]$$

$$N_{h} = N(N - N_{h}) \left[c \log \left(\frac{N - N_{h}}{10} \right) - b T_{h} N_{h} - T_{h} N_{h} + b T_{h} \right]$$

$$N_{h} = N'(N - N_{h}) \left[c \log \left(\frac{N - N_{h}}{10} \right) - b T_{h} N_{h} - T_{h} N_{h} + b T_{h} \right]$$

$$N_{h} = N'(N - N_{h}) \left[c \log \left(\frac{N - N_{h}}{10} \right) - b T_{h} N_{h} - T_{h} N_{h} + b T_{h} \right]$$



	1-NL = 24 (-CT-TENL)
	By (1-NL) = - ~ (T-TKNL) + +
	a = - Reg. (I-Nh.)
	T TLNL
	· · · · · · · · · · · · · · · · · · ·
9	

APPLICATION OF FUNCTIONAL RESPONSES TO TWO PREY SITUATION

O BASIC EQUS
$$N_{\alpha} = N(1-exp-\alpha(T-T_{N}N_{\alpha}))$$
 — Type II
 $N_{\alpha} = N(N-NA)\left[C\log_{n}\left((N-N_{\alpha}/N)-bT_{N}N_{\alpha}+bT\right)\right]$ — Type III

1 Two prey situation: subtruct time taken in handling prey items in This of This

$$N\alpha = N\left(1 - exp - \alpha \left(T - Th N\alpha - Th' N\alpha'\right)\right)$$

$$N\alpha' = N'\left(N' - N\alpha'\right) \left[c\log_n\left(\left(N' - N\alpha'/N'\right) - bTh' N\alpha' + bT' - Th N\alpha\right)\right]$$

* This egn does not work in two prey situation.

die to -Th. Na.

70.05(2) 88 = 1.04 = 1.23 F.05(2) = 4.43 accept Ho

4	8-	6.05(2)	8,6		= 1.23			
1.5	FEED	ING E	XPT	1 5	3.375	3 prepent	X 3.	07-63 eaten 7 23
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- 28 29		///1	4	0	4	14-	1	2.8
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32-33				0				
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Fish X 26

Fish sgc x 25 mm

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TY PRET. FOR
? PRET.FOR (0) file was not found
.TY PREY.FOR
        DIMENSION SCLASS(25), PABUN(25), ACCEPT(25)
        DIMENSION EATEN(25), SEL(25), PERPAB(25)
        REAL MEATN, MPABUN, PERPAB
        DO 12 I=1,25
           READ(25,*)SCLASS(I), PABUN(I)
12
        CONTINUE
        DO 99 M=9,30,3
        NFISH=M
        ACMEAN=0.12*NFISH
        ACVAR=1.2
        XAC=ACVAR*SQRT(2*3.14159)
        ZAC=2*ACVAR**2
        N:::: A
        NPABUN=0
        SPABUN=0.0
        SQSFAB=0.0
        SEATEN=0.0
        SQEATN=0.0
        DO 14 I=1,25
            EATEN(I)=0
        CONTINUE
14
        DO 20 I=1,25
            ACCEPT(I)=EXF(-1*((SCLASS(I)-ACMEAN)**2/ZAC))*(1/XAC)
20
        CONTINUE
        DO 40 I=1,25
            L=FABUN(I)
            DO 50 K=1,L
               R=RAN(1)
               IF(R.GT.ACCEPT(I))GO TO 50
               EATEN(I) = EATEN(I)+1
               N=N+1
            CONTINUE
50
40
        CONTINUE
        DO 66 I=1,25
            SPABUN=SPABUN+(SCLASS(I)*PABUN(I))
            SQSPAB=SQSPAB+((SCLASS(I)**2)*PABUN(I))
            NFARIN=NPABUN+PABUN(I)
            SEATEN=SECIENT(SCLASS(I)*EATEN(I))
SCEATEN=SECIENT(SCLASS(I)**2)*EATEN(I))
         CONTINUE
33
         MPABUN=SPABUN/NPABUN
         SDPABN=SQRT((SQSPAB-SPABUN**2/NPABUN)/(NPABUN-1))
         MEATN=SEATEN/N
         SDEATN=SQRT((SQEATN-SEATEN**2/N)/(N-1))
         WRITE(5,18)NFISH, MEATN, SDEATN
```

FORMAT(/,5X,13,2X,F5.2,2X,F5.2)

WRITE (16,44) NEISH, ACMEAN, ACVAR, MPARUN, S

18

MEATN, SDEAT

```
'OFT PREY SIZE', 2X, F5, 2, /, 5X, 'ACCEPTANCE VARIENCE',
         2X,F5.2,/,5X, MEAN PREY SIZE /,2X,F5.2,/,5X,
     1
         'PREY SD',2X,F5.2,/,5X, MEAN SIZE EATEN',2X,F5.2,/,
         5X, 'EATEN SD', 2X, F5, 2, //, 3X, 'SCLASS ACCEPT PABUN',
         2X, 'EATEN')
         DO 55 I=1,25
            WRITE(16,45)SCLASS(I),ACCEPT(I),PABUN(I),EATEN(I)
45
            FORMAT(4F10.4)
55
         CONTINUE
         WRITE(16,47)
47
        FORMAT(//,/
                       SCLASS ACCEPT PABUN
                                              EATEN
         DO 65 I=1,25
            EATEN(I)=EATEN(I)/N
            PERPAB(I)=PABUN(I)/NFABUN
            SEL(I) = EATEN(I) - PERPAB(I)
            WRITE(16,46)SCLASS(I),ACCEPT(I),PERPAB(I),EATEN(I),SEL(I)
            FORMAT(4F10.3,F8.4)
46
           WRITE(17,22)EATEN(1)
22
           FORMAT(F8.4)
AS
         CONTINUE
00
         CONTINUE
         DO 23 I=1,25
         WRITE(17,24)PERPAB(I)
        FORMAT(F8.4)
24
23
         CONTINUE
         STOP
        END
 TY FOR25.DAT
0.3 3666
0.5 4468
0.7
    792
0.9 206
1.1 351
1.3 191
1.5 65
1.7 50
1.9 30
2.1
    20
2.3 20
2.5 15
2.7 20
2.9 20
3.1 15
3.1 10
3.3 15
3.5 10
3.7 10
```

.K/F Job 58, User [2371,25576] Logged off TTY175 1344 18-Oct-83

3.9 5 4.1 10 4.5 5 4.7 5 4.9 1 5.1 1