

SITE	MATSI	BLOCK	1	TR	CT				NOTES
DATE	7-24-21	INITIALS	NAM MA DA NP IK	START TIME			11:09	Q1	
SPECIES	QUADRAT								Q1
	1	2	3	4	5	6	7	8	
ERI VAG	C1	6	3	-					
EV. LITTER	5	8	2	-					
CAR BIG	35	7	6	27					Q2
GRASS ex.	3	11	2	L1					
BET NAN	22	4	12	2					
DEAD BET	C1	C1	C1	-					
SAL PUL	5	9	21	2					Q3
SAL RET	-	Stp	-	-					
ARC ALP	-	-	-	-					
VAC ULI	-	Stp	41	10					
RUB CHA	-	-	Stp	-					Q4
PET FRI	-	1	6	8					
POL BIS	1	2	1	C1					
LED PAL	2	3	31	15					
CAS TET	-	0	-	-					Q5
VAC VIT	2	Stp 3	7	5					
EMP NIG	-	-	-	-					
PED LAP	C1	C1	1	41					
AND POL	-	0	-	-					Q6
DEAD EV.	-	1	-	L1					
MOSS	22	23	22	8					
LICHEN	1	-	<1	1					Q7
LITTER	8	6	8	21					
FR BOIL	-	-	-	-					
BARE GR.	-	C1	-	-					
# TUSS.	-	1	4	-					Q8
VOLES									
HOLES	-	-	1	1					
TRAILS	-	1	-	-					
% LITTER	4	-	-	-					
TIME		11:16	11:23	11:21					

2

SITE	MAT 81	BLOCK	1	TR NP	NOTES
DATE	7-24-21	INITIALS	NAW/NP DA/MB/JLH	START TIME	10:59
SPECIES		QUADRAT	1 2 3 4 5 6 7 8		
ERI VAG	-	-	-	-	
EV. LITTER	-	-	-	-	1 Shroom
CAR BIG	5	1	C1	4	1 hole latrine
GRASS ex.	4	2	4	1	1 flag
BET NAN	5	7	16	38	
DEAD BET	22	33	18	19	
SAL PUL					Q2 4 Shrooms
SAL RET					1 latrine
ARC ALP					
VAC ULI					
RUB CHA					
PET FRI	3	1			
POL BIS					Q3 1 Flag
LED PAL	4	7	7	3	
CAS TET					
VAC VIT	3	1	2	1	
EMP NIG					
PED LAP	C1				
AND POL					Q4 1 Shroom
DEAD EV.	-	2	2	C1	1 flag
MOSS	17	6	10	8	
LICHEN	C1	C1	C1	C1	
LITTER	13	15	7	11	
FR BOIL			-	-	
BARE GR.	1	C1	2	1	
# TUSS.	-	-	-	-	
VOLES					
HOLES		-	-		
TRAILS		-	-		
% LITTER		-	-		
TIME			11:09		

SITE	MAT 81	BLOCK	2	TR	CT	NOTES		
DATE	7-24-21	INITIALS	NAN MANO	START TIME	10:41 AM			
SPECIES	QUADRAT							
	1	2	3	4	5	6	7	8
ERI VAG	4	3	4	7				
EV. LITTER	1	1	1	4	11			
CAR BIG	11	7	8	5				
GRASS ex.	-	-	-	<1				
BET NAN	27	13	23	27				
DEAD BET	1	-	1	1				
SAL PUL	-	-	-	-				
SAL RET	-	1	-	-				
ARCALP	-	-	-	-				
VAC ULI	-	1	-	1				
RUB CHA	9	1	3	1				
PET FRI	9	5	2	2				
POL BIS	3	1	1	2				
LED PAL	25	19	9	16				
CAS TET	-	-	-	-				
VAC VIT	7	5	4	8				
EMP NIG	-	1	1	-				
PED LAP	1	1	1	<1				
AND POL	1	-	-	-				
DEAD EV.	1	-	1	1				
MOSS	17	29	22	25				
LICHEN	1	5	3	2				
LITTER	9	11	13	3				
FR BOIL	-	-	-	-				
BARE GR.	-	-	-	-				
# TUSS.	1	1	2	6				
VOLES								
HOLES	-	-	-	-				
TRAILS	-	-	-	-				
% LITTER	-	-	-	-				
TIME	10:50	10:50	10:53	10:50				

SITE	MAT 81	BLOCK	12	TR	NP		NOTES	
DATE	7-24-21	INITIALS	NAW	MR	NP	START TIME	10:29	
SPECIES		QUADRAT						
	1	2	3	4	5	6	7	8
ERI VAG	4	1		-				
EV. LITTER	3	L1	2	-				
CAR BIG			L1					
GRASS ex.								
BET NAN	44	46	87	65				
DEAD BET	10	18	11	18				
SAL PUL								
SAL RET								
ARC ALP								
VAC ULI								
RUB CHA	7	7	L1	8				
PET FRI								
POL BIS								
LED PAL	4	9		L1				
CAS TET								
VAC VIT								
EMP NIG								
PED LAP								
AND POL								
DEAD EV.								
MOSS	6	3	L1					
LICHEN	<1	<1		L1				
LITTER	5	1		2				
FR BOIL								
BARE GR.	3	<1						
# TUSS.	1	1						
VOLES								
HOLES	1							
TRAILS								
% LITTER				3				
TIME				10:40				

p.5

SITE	MAT81		BLOCK	3	TR	CT	NOTES
DATE	7-24-21		INITIALS	NAW MM IK NP DA	START TIME	10:15	
SPECIES	QUADRAT						
	1	2	3	4	5	6	7
ERI VAG	12	29	24	33			
EV. LITTER	5	9	17	9			
CAR BIG	2	11	=	8			
GRASS ex.	-	-	-	-			
BET NAN	4	7	7	1			
DEAD BET	-	-	-	1			
SAL PUL	-	-	-	-			
SAL RET	-	-	-	-			
ARC ALP	-	-	-	-			
VAC ULI	-	-	1	28 kWh			
RUB CHA	10	7	11	8			
PET FRI	-	-	-	-			
POL BIS	-	-	-	-			
LED PAL	8	6	7	1			
CAS TET	-	1	1	1			
VAC VIT	14	9	6	4			
EMP NIG	-	1	-	-			
PED LAP	1	1	1	1			
AND POL	-	1	1	1			
DEAD EV.	1	-	1	1			
MOSS	6	15	15	20			
LICHEN	6	7	1	4			
LITTER	1	1	1	3			
FR BOIL	-	-	-	-			
BARE GR.	-	-	-	-			
# TUSS.	9	12	12	8			
VOLES							
HOLES	-	-	-	-			
TRAILS	-	-	-	-			
% LITTER	1	-	2	1			
TIME	10:20	10:20	10:27	10:27			

SITE MAT81
DATE 7-24-21

BLOCK 3

INITIALS NAW MR VP
PA

TR *NP*

START TIME 10:04

NOTES

SITE	MAT81	BLOCK	4	TR	CT	NOTES		
DATE	7-24-21	INITIALS	NAW UP ILC DA MR	START TIME	9:36	.7		
SPECIES		QUADRAT						
	1	2	3	4	5	6	7	8
ERI VAG	2	13	3	4				
EV. LITTER	1	7	2	2				
CAR BIG	2	11	4	3				
GRASS ex.	—	—	—	—				
BET NAN	66	9	18	15				
DEAD BET	5	7	2	1				
SAL PUL	—	—	—	—				
SAL RET	—	—	—	—				
ARC ALP?	—	—	—	—				
VAC ULI	—	—	—	—				
RUB CHA	5	4	27	21				
PET FRI	—	—	—	—				
POL BIS	—	—	—	—				
LED PAL	6	11	3	10				
CAS TET	—	—	21	2				
VAC VIT	5	17	4	9				
EMP NIG	—	—	1	3				
PED LAP	1	—	—	—				
AND POL	—	—	—	1				
DEAD EV.	1	—	1	1				
MOSS	W	21	42	13				
LICHEN	1	5	4	1				
LITTER	4	1	8	3				
FR BOIL	—	—	—	—				
BARE GR.	—	1	—	—				
# TUSS.	—	8	1	3				
VOLES								
HOLES	—	—	—	1				
TRAILS	—	—	—	1				
% LITTER	—	—	—					
TIME	9:56	9:56	10:02	10:02				

SITE 81 MAT	BLOCK 4	DA	TR NP	NOTES
DATE 7-24-21	INITIALS MAW, JLG, MP		START TIME 9:25	
SPECIES	IK DA MB MP	QUADRAT		
	1 2 3 4 5 6 7 8			
ERI VAG				
EV. LITTER				
CAR BIG				
GRASS ex.				
BET NAN	58 16 22 32			
DEAD BET	12 9 27 6			
SAL PUL	1			
SAL RET				
ARC ALP				
VAC ULI	44			
RUB CHA	14 36 35 72			Q4 Epi Ang 7
PET FRI				Epi Ang
POL BIS				
LED PAL	1 2			
CAS TET				
VAC VIT	1 1 1			
EMP NIG				
PED LAP				
AND POL				
DEAD EV.				
MOSS	1 1			
LICHEN	1 1			
LITTER	1 5 5 5			
FR BOIL				
BARE GR.				
# TUSS.				
VOLES				
HOLES				
TRAILS				
% LITTER				
TIME				

Q1

*calibrated in this quadrat

Q2

Q3

C1 Epi Ang

Q4

Epi Ang 7

~~Epi Ang~~

Q5

6

Q6

Q7

Q8

SITE MAT89		BLOCK 1		TR CT2					NOTES	
DATE 2/22/21		INITIALS MR, K, NP, KV, OA		START TIME 1416						
SPECIES	QUADRAT								Q1	
	1	2	3	4	5	6	7	8		
ERI VAG	10	11	10	11	7	17	17	9		
EV. LITTER	2	3	1	3	2	7	2	3		
CAR BIG	4	5	1	2	1	>1	6	4		
GRASS ex.	0	0	0	0	0	0	0	0		
BET NAN	24	15	19	15	14	14	10	2		
DEAD BET	>1	>1	2	5	4	1	0	0		
SAL PUL	0	>1	0	>1	4	0	6	0		
SAL RET	0	0	0	0	0	0	0	0		
ARCALP	0	0	0	0	0	0	0	0		
VACULI	0	0	0	0	2	0	3	0		
RUB CHA	7	5	1	16	15	6	6	4		
PET FRI	0	0	0	0	0	0	0	0		
POL BIS	0	0	0	0	0	0	0	0		
LED PAL	16	12	3	1	10	9	6	12		
CAS TET	>1	1	>1	>1	3	>1	3	4		
VAC VIT	7	6	3	3	12	8	7	8		
EMP NIG	0	0	0	0	1	2	0	>1		
PED LAP	>1	0	0	0	0	0	0	0		
AND POL	0	0	0	0	1	0	0	0		
DEAD EV.	>1	>1	>1	0	>1	>1	1	1		
MOSS	4	11	25	14	4	13	5	10		
LICHEN	3	6	5	2	>1	2	1	3		
LITTER	3	>1	4	2	1	2	2	1		
FR BOIL	0	0	0	0	0	0	0	0		
BARE GR.	0	>1	>1	>1	0	5	0	2		
# TUSS.	10	7	9	8	3	10	5	9		
VOLES										
HOLES	1	1	0	0	0	1	1	0		
TRAILS	0	0	0	0	0	0	0	0		
% LITTER	9	4	10	9	5	10	13	20		
TIME	1439	1439	1445	1445	1452	1452	1459	1459		

SITE MAP 89		BLOCK 1		TR NP				NOTES								
DATE 7/22/21		INITIALS MLK, ND, DA, KW START TIME 1306								Q1						
SPECIES		QUADRAT														
		1 1 L	D 2 N	1 3 L	D 4 N	D 5 N	1 6 L	D 7 N	1 8 L							
ERI VAG	-	-	-	-	-	>1	-	-	-							
EV. LITTER	-	-	-	-	-	>1	1	>1	-							
CAR BIG	-	-	-	-	-	-	-	-	-	Q2						
GRASS ex.	-	-	-	-	-	-	-	-	-							
BET NAN	5	3	10	9	16	12	50	17								
DEAD BET	45	52	60	29	32	19	18	24		Q3						
SAL PUL	-	-	-	-	-	-	-	-	-							
SAL RET	-	-	-	-	-	-	-	-	-							
ARCALP	-	-	-	-	-	-	-	-	-							
VAC ULI	-	-	-	-	-	-	-	-	-							
RUB CHA	15	16	11	24	17	32	9	36		Q4						
PET FRI	-	-	-	-	-	-	-	-	-							
POL BIS	-	-	-	-	-	-	-	-	-							
LED PAL	-	-	-	-	-	2	-	>1	2	Q5						
CAS TET	-	-	-	-	-	-	-	-	-							
VAC VIT	-	-	-	-	-	-	-	-	-							
EMP NIG	-	-	-	-	-	-	-	-	-							
PED LAP	-	-	-	-	-	-	-	-	-							
AND POL	-	-	-	-	-	-	-	-	-	Q6						
DEAD EV.	-	-	-	-	-	-	-	-	-							
MOSS	13	3	5	4	-	-	>1	-		Q7						
LICHEN	>1	0	-	-	-	-	-	-	-							
LITTER	13	5	8	10	9	39	8	17		old ERI litter						
FR BOIL	-	-	-	-	-	-	-	-	-							
BARE GR.	1	2	1	2	-	1	-	-	-	Q8						
# TUSS.	-	-	-	-	1	-	-	-	-							
VOLES																
HOLES	-	-	-	-	-	-	-	-	-							
TRAILS	-	-	-	-	-	-	-	-	-							
% LITTER	-	-	-	1	1	1	-	-	-							
TIME	1310	1310	1313	1313	1320	1320	1324	1324								

St Long = >1

SITE MAT89		BLOCK 1		TR EX-NP					NOTES		
DATE 7/22/21				INITIALS MR, HK, NP, KR, DA	START TIME 1326					Q1	
SPECIES		QUADRAT								Q2	SWITCH
		D 1 N	I 2 L	H 3 L	D 4 N	I 5 L	D 6 N	L 7 L	D 8 N		
ERI VAG		-	-	-	-	-	-	-	-		
EV. LITTER		-	-	-	-	-	2	-	-		
CAR BIG		-	-	-	-	-	-	-	-		
GRASS ex.		-	-	-	-	-	-	-	-		
BET NAN	53	76	49	22	28	42	43	32			
DEAD BET	8	8	7	17	24	13	27	25			
SAL PUL	-	-	-	-	-	-	-	-			
SAL RET	-	-	-	-	-	-	-	-			
ARCALP	-	-	-	-	-	-	-	-			
VAC ULI	-	-	-	-	-	-	-	-			
RUB CHA	15	44	9	18	19	23	4	37			
PET FRI	-	-	-	-	-	-	-	-			
POL BIS	-	-	-	-	-	-	-	-			
LED PAL	2	2	6	-	4	1	6	2			
CAS TET	-	-	-	-	-	-	-	-			
VAC VIT	-	-	-	-	✓	✓	-	-			
EMP NIG	-	-	-	-	-	-	-	-			
PED LAP	-	-	-	-	-	-	-	-			
AND POL	-	-	-	-	-	-	-	-			
DEAD EV.	-	-	-	-	-	-	-	-			
	-										
MOSS	-	-	-	-	1	1	1	-			
LICHEN	+	-	-	-	-	>1	>1	-			
LITTER	4	2	4	12	24	14	-	8			
FR BOIL	✓	-	-	-	-	-	-				
BARE GR.	-	-	-	-	2	2	-	2			
# TUSS.	-	-	-	-	-	-	-	-			
VOLES											
HOLES	-	-	-	-	-	-	-	-			
TRAILS	-	-	-	-	-	-	-	-			
% LITTER	-	-	-	-	-	2	-	-			
TIME	1328	1328	1334	1334	1338	1338	1341	1341			

SITE MAT89		BLOCK 1		TR GH-C+					NOTES		
DATE 7/22/21		INITIALS MR, JK, NP, DA, KW		START TIME 1235							
SPECIES	QUADRAT 1								Q1		
	5	6	7	8	1	2	3	4			
ERI VAG	1	9	10	18	2	3	11	9	1 tag 3 flag	large metal box (80%)	
EV. LITTER	0	5	2	9	3	7	12	13			
CAR BIG	5	0	1	0	3	0	0	0	# flags		
GRASS ex.	0	0	0	0	0	0	0	0			
BET NAN	3	24	14	23	17	25	22	18	Q2		
DEAD BET	9	8	>1	2	10	9	2	3			
SAL PUL	6	0	20	7	6	0	0	4	Q3		
SAL RET	0	0	0	0	0	0	0	0			
ARCALP	0	0	0	0	0	0	0	0	Q4		
VACULI	0	0	0	0	0	0	>1	>1			
RUB CHA	50	20	11	7	43	13	13	26	4 stakes 3 flags		
PET FRI	0	0	0	0	0	0	0	0			
POL BIS	0	0	0	0	0	0	0	0	mushroom pluck sample.		
LED PAL	>1	10	20	18	7	6	5	11			
CAS TET	1	3	>1	>1	0	1	>1	>1	Q5	DN↓	
VAC VIT	1	>1	3	4	1	>1	3	3			
EMP NIG	2	>1	3	1	1	0	2	5	2 flags		
PED LAP	0	0	0	0	0	0	0	>1			
AND POL	0	0	0	0	0	0	0	0	Q6		
DEAD EV.	0	1	4	1	5	1	2	1			
MOSS	8	5	3	'2	7	5	3	36	2 sample holes		
LICHEN	0	0	0	0	0	1	10	>1			
LITTER	8	1	2	1	5	6	8	9	14% tarp 1 flag		
FR BOIL	0	0	0	0	0	0	0	0			
BARE GR.	>1	0	>1	>1	0	0	2	2	3 stakes		
# TUSS.	1	3	3	5	1	'3	5	3			
VOLES									3 flags pluck sample		
HOLES	0	0	0	0	0	0	0	0			
TRAILS	0	0	0	0	0	0	0	0	DN↓		
% LITTER	0	5	5	5	3	4	5	3			
TIME	1243	1250	1257	1303	1243	1250	1257	1303			
	WEST				EAST						

SITE MAT 89		BLOCK 1		TR GH-NP					NOTES									
DATE 7/22/21		INITIALS MR, LG, KV, DA, NP START TIME 1221																
SPECIES		QUADRAT																
		1 1W	1 2W	1 3W	1 4W	D 5N	D 6N	D 7N	D 8N									
ERI VAG		-	-	-	-	-	-	/	-									
EV. LITTER		-	-	-	-	-	-	-	-									
CAR BIG		-	-	-	-	-	-	-	-									
GRASS ex.		-	-	-	-	-	-	-	-									
BET NAN	43	18	61	90	27	15	57	69										
DEAD BET	2	13	19	6	8	18	24	8										
SAL PUL	-	-	-	-	-	-	-	-	-									
SAL RET	-	-	-	-	-	-	-	-	-									
ARC ALP	-	-	-	-	-	-	-	-	-									
VAC ULI	-	-	-	-	-	-	-	-	-									
RUB CHA	25	59	41	11	56	69	17	12										
PET FRI	-	-	-	-	-	-	-	-	-									
POL BIS	-	-	-	-	-	-	-	-	-									
LED PAL	4	8	-	3	-	>1	1	1										
CAS TET	-	-	-	-	-	-	-	-	-									
VAC VIT	-	-	-	-	-	-	-	-	-									
EMP NIG	-	-	-	-	-	-	-	-	-									
PED LAP	-	-	-	-	-	-	-	-	-									
AND POL	-	-	-	-	-	-	-	-	-									
DEAD EV.	-	>1	-	-	-	-	-	-	-									
MOSS	-	-	-	-	-	-	-	-	-									
LICHEN	-	-	-	-	-	-	-	-	-									
LITTER	4	4	8	1	4	3	2	>1										
FR BOIL	-	-	-	-	-	-	-	-	-									
BARE GR.	-	-	-	-	-	-	-	-	-									
# TUSS.	-	-	-	-	-	-	-	-	-									
VOLES																		
HOLES	-	-	-	-	-	-	-	-	-									
TRAILS	-	-	-	-	-	-	-	-	-									
% LITTER	-	-	-	-	-	-	-	-	-									
TIME	1223	1221	1232	1234	1223	1227	1232	1234										

EAST

WEST

2 flags 1 tag

Q2
1 tag
2 flags

Q3

Q4

Q5
4 flag
D7N↓Q6
2 flagsQ7
1 flag

Q8

P.14

SITE MAT99		BLOCK 2		TR CT 2				NOTES		
DATE	7/22/21	INITIALS MR, NP, KC, DA		START TIME 1018						
SPECIES		QUADRAT								
		N 1D	1 2K	N 3D	1 4K	1 5K	N 6D	1 7K	N 8D	
ERI VAG		1	8	4	11	4	23	15	6	
EV. LITTER		2	4	1	5	4	6	10	2	
CAR BIG		1	1	2	>1	1	0	4	1	
GRASS ex.		0	0	0	0	0	0	0	0	
BET NAN		9	11	4	18	17	16	17	5	
DEAD BET		1	>1	3	>1	2	2	1	>1	
SAL PUL		0	4	9	6	1	0	3	4	
SAL RET		0	0	0	0	0	0	0	0	
ARC ALP		0	0	0	0	0	0	0	0	
VAC ULI		0	0	0	0	0	0	0	0	
RUB CHA		30	20	17	15	7	>1	4	5	
PET FRI		0	0	0	0	0	0	0	0	
POL BIS		>1	0	0	>1	0	0	>1	>1	
LED PAL		8	9	6	13	5	10	8	4	
CAS TET		23	5	16	6	>1	1	0	1	
VAC VIT		8	6	7	11	5	7	7	19	
EMP NIG		1	5	7	4	>1	>1	1	0	
PED LAP		>1	>1	>1	>1	>1	>1	>1	1	
AND POL		0	>1	>1	0	>1	0	>1	0	
DEAD EV.		>1	0	0	0	3	>1	>1	0	
MOSS		28	7	18	0	20	7	0	4	
LICHEN		-1	1	4	2	4	1	2	>1	
LITTER		8	6	2	0	3	>1	4	1	
FR BOIL		0	0	0	0	0	0	0	0	
BARE GR.		0	0	0	0	0	0	0	1	
# TUSS.		2	3	2	6	6	10	6	5	
VOLES										
HOLES		0	0	0	0	2	1	4	1	
TRAILS		0	0	0	0	0	0	0	0	
% LITTER		0	0	0	0	15	4	6	19	
TIME		1040	1040	1048	1048	1056	1056	1103	1103	

SITE MAT89		BLOCK 2		TR NP				NOTES	
DATE 7/22/21		INITIALS MR, LC, DA, PR, LV				START TIME 1208		Q1	
SPECIES		QUADRAT							
		D 1 N	I 2 K	O 3 N	I 4 K	D 5 N	I 6 K	D 7 N	I 8 K
ERI VAG		-	-	-	-	-	-	-	-
EV. LITTER		-	-	-	-	-	-	-	-
CAR BIG		-	-	-	-	-	-	-	-
GRASS ex.		-	-	-	-	>1	1	>1	
BET NAN	3	1	4	14	2	5	10	18	
DEAD BET	8	16	8	26	18	18	8	31	
SAL PUL	-	-	-	-	-	-	-	-	Q3
SAL RET	-	-	-	-	-	-	-	-	
ARC ALP	-	-	-	-	-	✓	-	-	
VAC ULI	-	-	-	-	-	✓	-	-	
RUB CHA	76	83	80	45	61	59	64	25	Q4
PET FRI	-	-	-	-	-	-	-	-	
POL BIS	-	-	-	-	-	-	-	-	
LED PAL	-	-	>1	-	-	-	-	-	
CAS TET	-	-	-	-	-	-	-	-	Q5
VAC VIT	-	-	-	-	-	-	-	-	
EMP NIG	-	-	-	-	-	-	-	-	
PED LAP	-	-	-	-	-	-	-	-	
AND POL	-	-	✓	-	-	-	-	-	Q6
DEAD EV.	-	-	>1	-	-	2	-	✓	
MOSS	-	>1	-	-	-	-	>1	1	
LICHEN	-	-	-	-	-	-	-	-	Q7
LITTER	1	7	4	5	16	11	12	5	
FR BOIL	0	0	-	-	-	-	-	✓	
BARE GR.	-	>1	1	-	-	2	>1	-	
# TUSS.	-	-	-	-	-	-	-	-	Q8
VOLES									X Super old vole litter (2%)
HOLES	-	-	-	-	-	-	-	-	
TRAILS	-	-	-	-	-	-	-	-	
% LITTER	-	-	-	-	-	-	-	-	*
TIME	1210	1210	1212	1212	1216	1216	1218	1218	

SITE MAT 89		BLOCK 2		TR EX-NP				NOTES		
SPECIES		QUADRAT								Q1
		1 1L	N 2D	1 3L	N 4D	1 5L	N 6D	1 7L	N 8D	
ERI VAG		0	1	>1	>1	0	0	0	-	
EV. LITTER		0	>1	0	0	0	0	0	-	
CAR BIG		0	1	2	0	0	0	0	-	
GRASS ex.		0	0	0	0	0	0	0	-	
BET NAN		10	12	4	1	0	0	9	30	
DEAD BET		21	16	7	2	0	5	11	21	
SAL PUL		0	0	0	0	0	0	0	-	
SAL RET		0	0	0	0	0	0	0	-	
ARC ALP		0	0	0	0	0	0	0	-	
VAC ULI		0	0	0	0	0	0	2	3	
RUB CHA		78	74	92	93	92	94	82	56	
PET FRI		0	0	0	0	0	0	-	0	
POL BIS		0	0	0	0	0	0	-	0	
LED PAL		0	0	>1	0	0	0	-	0	
CAS TET		0	0	0	0	0	0	-	0	
VAC VIT		0	0	0	0	0	0	-	0	
EMP NIG		0	0	0	0	0	0	-	0	
PED LAP		0	0	0	0	0	0	-	0	
AND POL		0	0	0	0	0	0	-	0	
DEAD EV.		0	0	0	1	1	0	-	+	
MOSS		1	0	0	0	0	0	-	0	
LICHEN		0	0	0	0	0	0	-	0	
LITTER		10	5	4	5	4	0	-	2	
FR BOIL		0	0	0	0	0	0	-	0	
BARE GR.		1	0	0	0	0	0	-	0	
# TUSS.		0	1	1	1	0	0	-	0	
VOLES										
HOLES		0	0	0	0	0	0	-	-	
TRAILS		0	0	0	0	0	0	-	-	
% LITTER		0	0	0	0	0	5	-	-	
TIME		1001	1001	1004	1004	1007	1007	1011	1011	

SPECIES	BAND 2										10 JULY 1977		NOTES
	1	2	3	4	5	6	7	8	9	10	11	12	
SPARROW	0	1	1	3	2	1	1	1	3	1	1	1	1
SW. SPARROW	4	1	2	4	2	1	1	2	1	1	1	1	1
CH. BIRD	0	2	0	0	1	0	0	0	1	1	1	1	1
GRASSHOP.	0	0	0	0	0	0	0	0	0	0	0	0	0
BROWN SP.	12	8	15	14	16	8	8	12	12	12	12	12	12
SHRIKE-BIT	11	4	15	17	2	3	3	6	10	10	10	10	10
SAL. FLY	0	12	0	2	1	5	1	0	0	0	0	0	0
SAL. RET	0	0	0	0	0	0	0	0	0	0	0	0	0
ARC. ALP.	0	0	0	0	0	0	0	0	0	0	0	0	0
MAC. GUL	0	0	0	1	0	0	0	0	0	0	0	0	0
BUSH CHUB	24	32	22	20	36	29	29	29	22	22	22	22	22
PEST FLY	0	0	0	0	0	0	0	0	0	0	0	0	0
POW. BE	0	0	0	0	0	0	0	0	0	0	0	0	0
LEAF FLY	7	7	12	4	6	10	3	3	3	3	3	3	3
GRASS TET	2	2	0	0	2	2	1	1	1	1	1	1	1
MAC. VIT	2	2	1	2	2	3	3	3	2	2	2	2	2
EMP. HOD	1	1	1	1	5	1	1	1	1	1	1	1	1
RED. LAP	0	0	0	0	0	0	0	0	0	0	0	0	0
ANOL. POI	0	0	0	1	0	0	0	0	0	0	0	0	0
DEADLY	0	0	1	0	2	4	2	1	1	1	1	1	1
Moss	1	4	4	12	6	1	3	4	4	4	4	4	4
LICHEN	0	0	2	0	2	0	0	0	0	0	0	0	0
LETTUCE	10	4	6	5	5	5	1	4	4	4	4	4	4
TH. BOR	0	0	0	0	0	0	0	0	0	0	0	0	0
BAND. CH	4	2	0	3	3	5	1	1	1	1	1	1	1
# TELLS	0	1	2	3	0	4	1	0	0	0	0	0	0
HOLDS	0	0	0	0	0	0	0	0	0	0	0	0	0
TRAILS	0	0	0	0	0	0	0	0	0	0	0	0	0
SCATTER	0	0	0	0	0	0	0	0	0	0	0	0	0
TIME	102	103	104	105	106	107	108	109	110	111	112	113	114

10% 2 strikes
2 days
approximate

20% flags
20% map

10% flags

10% 4 flags

10% 6 flags

16%

10%
2 strikes
1 flags

10%
6 flags
first sample (overgrind)

10%
6 flags
quite sample
second sample (8%)

SITE MAT 89		BLOCK 2		TR GH-NP					NOTES			
DATE 07/22/21		INITIALS MR, DA, KV, 1K, NP		START TIME 1107								
SPECIES	QUADRAT								DN ↓			
	1	2	3	4	5	6	7	8				
ERIVAG	-	-	-	-	-	-	-	-	Dead Bet nan is hard to tell - loopy...			
EV. LITTER	-	-	-	-	-	-	-	-				
CAR BIG	-	-	-	-	-	-	-	-	Q2 flags: 3			
GRASS ex.	-	-	-	-	-	-	-	-				
BET NAN	40	15	8	31	13	5	4	12	Q3 flags: 0			
DEAD BET	20	15	13	37	18	34	28	41				
SAL PUL	-	6	38	3	-	7	27	1	Q4 flags: 0			
SAL RET	-	-	-	-	-	-	-	-				
ARCALP	-	-	-	-	-	-	-	-	very hard to see - high shrubbs on one side			
VACULI	-	-	-	-	-	-	-	-				
RUB CHA	16	29	79	41	54	27	57	42	Q5 flags: 2 1k ↓			
PET FRI	-	-	-	-	-	-	-	-				
POL BIS	-	-	-	-	-	-	-	-	Q6 flags: 0			
LED PAL	-	-	-	-	-	-	-	-				
CAS TET	-	-	-	-	-	-	-	-	Q7 flags: 0			
VAC VIT	-	-	-	-	-	-	-	-				
EMP NIG	-	-	-	-	-	-	-	-	Q8 flags: 0			
PED LAP	-	-	-	-	-	-	-	-				
AND POL	-	-	-	-	-	-	-	-	Q9 flags: 0			
DEAD EV.	-	-	-	-	-	-	-	-				
	-	-	✓	✓	✓	✓	✓	✓	Q10 flags: 0			
MOSS	-	2	-	-	-	1	-	-				
LICHEN	✓	-	-	✓	-	-	-	-	Q11 flags: 0			
LITTER	9	19	3	31	26	14	3	4				
FR BOIL	-	-	-	-	-	-	-	-	Q12 flags: 0			
BARE GR.	-	3	>1	>1	2	5	2	1				
# TUSS.	--	-	-	-	-	-	-	-	Q13 flags: 0			
VOLES												
HOLES	-	-	-	-	-	-	-	-				
TRAILS	-	-	-	-	-	-	-	-	Q14 flags: 0			
% LITTER	-	-	-	-	-	-	-	-				
TIME	1111	1114	1117	1120	1111	1114	1117	1120	Q15 flags: 0			

↖ doesn't mean anything.

SITE	MAT 89		BLOCK 3		TR CT2				NOTES
DATE	7/21/22		INITIALS MR, VK, NP, DA, KV		START TIME 1517				Q1
SPECIES	QUADRAT								
	D 1 N	I 2 L	D 3 N	I 4 L	I 5 L	D 6 N	I 7 L	D 8 N	
ERI VAG	4	7	7	2	5	10	6	16	
EV. LITTER	1	2	3	3	2	2	5	10	Q2
CAR BIG	8	>1	5	4	0	0	>1	5	
GRASS ex.	0	0	0	0	0	0	0	0	
BET NAN	14	24	10	14	9	16	26	20	
DEAD BET	1	1	2	2	>1	4	5	3	Q3
SAL PUL	1	1	1	0	2	1	3	7	
SAL RET	0	0	0	0	0	0	0	0	
ARCALP	0	0	0	0	0	0	0	0	
VAC ULI	0	0	0	0	0	1	0	0	Q4
RUB CHA	15	12	16	16	14	17	20	9	
PET FRI	0	0	0	0	0	0	0	0	
POL BIS	>1	>1	>1	>1	>1	0	0	0	
LED PAL	6	4	6	10	9	8	1	12	Q5
CAS TET	>1	4	>1	3	1	>1	0	1	
VAC VIT	11	8	28	17	24	5	4	0	
EMP NIG	6	2	2	1	4	0	0	1	
PED LAP	>1	>1	>1	1	>1	>1	1	0	Q6
AND POL	0	>1	0	1	0	0	0	0	
DEAD EV.	1	>1	>1	>1	1	>1	0	0	
MOSS	16	4	19	10	2	22	23	6	Q7
LICHEN	1	1	>1	5	2	3	1	4	
LITTER	5	1	3	6	2	5	8	2	
FR BOIL	0	0	0	0	0	0	0	0	
BARE GR.	0	0	0	>1	0	0	0	>1	Q8
# TUSS.	3	7	7	2	5	5	4	7	
VOLES									
HOLES	1	5	0	3	0	0	0	0	
TRAILS	0	0	0	1	0	0	0	0	
% LITTER	1	3	0	0	0	>1	0	1	
TIME	1625	1625	1530	1530	1540	1540	1546	1546	

SITE MAT 89		BLOCK 3		TR NP					NOTES									
DATE 7/22/21		INITIALS MR, LC, NP, DA, WV START TIME 1504																
SPECIES	QUADRAT										Q1							
	1 W	2 N	3 E	4 N	5 E	6 N	7 E	8 N	9 S	10 SE								
ERI VAG	-	-	-	-	-	-	-	-	-	-								
EV. LITTER	-	-	-	-	-	-	-	-	-	-								
CAR BIG	-	-	-	-	-	-	-	-	-	-	Q2							
GRASS ex.	-	-	-	-	-	-	-	-	-	-	1 flag							
BET NAN	73	70	74	62	2	5	21	2	-	-								
DEAD BET	16	10	11	19	46	42	35	18	-	-								
SAL PUL	-	-	-	-	-	-	-	-	-	-	Q3							
SAL RET	-	-	-	-	-	-	-	-	-	-								
ARCALP	-	-	-	-	-	-	-	-	-	-								
VAC ULI	-	-	-	-	-	-	-	-	-	-								
RUB CHA	5	8	4	6	27	39	15	60	-	-	Q4							
PET FRI	-	-	-	-	-	-	-	-	-	-								
POL BIS	-	-	-	-	-	-	-	-	-	-								
LED PAL	-	-	-	>1	6	-	-	-	-	-								
CAS TET	-	-	-	-	-	-	-	-	-	-	Q5							
VAC VIT	-	-	-	-	-	-	-	-	-	-								
EMP NIG	-	-	-	-	-	-	-	-	-	-								
PED LAP	-	-	-	-	-	-	-	-	-	-								
AND POL	-	-	-	-	-	-	-	-	-	-	Q6							
DEAD EV.	-	-	-	-	-	-	-	-	-	-								
MOSS	-	-	1	1	1	>1	>1	1	-	-								
LICHEN	-	-	-	-	-	-	-	>1	-	-	Q7							
LITTER	2	9	5	10	5	7	2	8	-	-								
FR BOIL	-	-	-	-	-	-	-	-	-	-								
BARE GR.	-	-	-	-	-	>1	-	-	-	-								
# TUSS.	-	-	-	-	-	-	-	-	-	-	Q8							
VOLES																		
HOLES	-	-	-	-	-	-	-	-	-	-								
TRAILS	-	-	-	-	-	-	-	-	-	-								
% LITTER	-	-	-	-	-	-	-	-	-	-								
TIME	1506	1506	1510	1510	1514	1514	1516	1516										

SITE MAT89		BLOCK 3		TR EXE NP				NOTES							
DATE 3/22/21		INITIALS NF, ND, NL, DT, LV / START TIME 1620													
SPECIES		QUADRAT													
		1 1L	D 2N	1 3L	D 4N	1 5L	D 6N	1 7L	D 8N						
ERI VAG	-	-	-	-	-	-	-	-	-						
EV. LITTER	-	-	-	-	-	-	-	-	-						
CAR BIG	-	-	-	>1	-	-	-	-	-						
GRASS ex.	-	-	-	-	-	-	-	-	-						
BET NAN	52	36	7	18	14	20	30	33							
DEAD BET	16	34	26	26	24	36	25	31							
SAL PUL	-	-	-	-	-	-	-	-	Q3						
SAL RET	-	-	-	-	-	-	-	-							
ARC ALP	-	-	-	-	-	-	-	-							
VAC ULI	-	-	-	-	-	-	-	-							
RUB CHA	8	10	25	28	35	17	9	28	Q4 Really old vole litter						
PET FRI	-	-	-	-	-	-	-	-							
POL BIS	-	-	-	-	-	-	-	-							
LED PAL	-	-	-	-	-	-	-	-							
CAS TET	-	-	-	-	-	-	-	-	Q5						
VAC VIT	-	-	-	-	-	-	-	-							
EMP NIG	-	-	-	-	-	-	-	-							
PED LAP	-	-	-	-	-	-	-	-							
AND POL	-	-	-	-	-	-	-	-	Q6						
DEAD EV.	-	-	-	-	-	-	-	-							
MOSS	-	>1	1	1	1	-	-	-							
LICHEN	-	-	-	-	-	-	>1	>1	Q7						
LITTER	2	11	12	9	12	13	13	9							
FR BOIL	-	-	-	-	-	-	-	-							
BARE GR.	-	-	-	-	-	-	-	-							
# TUSS.	-	-	-	-	-	-	-	-	Q8						
VOLES															
HOLES	-	-	-	-	-	-	-	-							
TRAILS	-	-	-	-	-	-	-	-							
% LITTER	-	-	-	5	-	-	-	-							
TIME	1621	1621	1624	1624	1626	1626	1628	1628							

SITE MATT89		BLOCK 3		TR GTT-CT					NOTES									
DATE 7/22/21		INITIALS MR, LG, NP, DA, KV START TIME 1603																
SPECIES	QUADRAT																	
	D 1N	D 2N	D 3N	D 4N	1 5K	1 6K	1 7K	1 8K										
ERI VAG	-	-	-	-	-	-	-	-										
EV. LITTER	-	-	-	-	-	-	-	-										
CAR BIG	-	-	-	-	-	-	-	-										
GRASS ex.	-	-	-	-	-	-	-	-										
BET NAN	65	32	27	26	17	18	22	34										
DEAD BET	7	4	15	22	16	8	16	15										
SAL PUL	1	7	16	4	12	21	11	14										
SAL RET	-	-	-	-	-	-	-	-										
ARC ALP	-	-	-	-	-	-	-	-										
VACULI	-	-	>1	-	1	2	-	-										
RUB CHA	22	35	37	29	42	40	40	27										
PET FRI	-	-	-	-	-	-	-	-										
POL BIS	-	-	-	-	-	-	-	-										
LED PAL	2	4	>1	3	1	1	2	>1										
CAS TET	-	-	-	-	-	-	-	-										
VAC VIT	-	-	>1	1	-	-	-	-										
EMP NIG	-	-	>1	-	>1	-	-	-										
PED LAP	-	-	-	-	-	-	-	-										
AND POL	-	-	-	-	-	-	-	-										
DEAD EV.	-	-	-	-	-	-	-	-										
	-																	
MOSS	2	1	1	3	2	1	1	1										
LICHEN	-	-	-	-	-	-	-	-										
LITTER	6	3	7	4	8	6	12	4										
FR BOIL	-	-	-	-	-	-	-	-										
BARE GR.	-	-	-	-	-	-	-	-										
# TUSS.	-	-	-	-	-	-	-	-										
VOLES																		
HOLES	-	v	-	-	--	--	--	--										
TRAILS	-	-	-	-	-	-	-	-										
% LITTER	-	v	-	-	v	-	-	-										
TIME	1618	1615	1612	1607	1607	1612	1615	1618										

SITE	MAT89	BLOCK	3	TR GH-NP	NOTES			
DATE	7/22/21	INITIALS	MR, DA, EV, NP, IK	START TIME	1550			
SPECIES		QUADRAT						
	D 1 N	D 2 N	D 3 N	D 4 N	1 5 L	1 6 L	1 7 L	1 8 L
ERI VAG	-	-	-	-	-	-	-	-
EV. LITTER	-	-	-	-	-	-	-	-
CAR BIG	-	-	-	-	-	-	-	-
GRASS ex.	-	-	-	-	-	-	-	-
BET NAN	88	56	88	34	54	68	55	69
DEAD BET	4	15	5	20	15	13	29	2
SAL PUL	-	-	-	-	-	-	-	-
SAL RET	-	-	-	-	-	-	-	-
ARCALP	-	-	-	-	-	-	-	-
VAC ULI	-	-	-	1	-	-	-	-
RUB CHA	3	9	5	28	6	1	23	2
PET FRI	-	-	-	-	-	-	-	-
POL BIS	-	-	-	-	-	-	-	-
LED PAL	-	5	-	1	-	-	-	>1
CAS TET	-	-	-	-	-	-	-	-
VAC VIT	-	-	-	-	-	-	-	-
EMP NIG	-	-	-	-	-	-	-	-
PED LAP	-	-	-	-	-	-	-	-
AND POL	-	-	-	-	-	-	-	-
DEAD EV.	-	-	-	-	-	-	-	-
MOSS	-	-	-	-	-	-	-	-
LICHEN	-	-	-	-	-	-	-	-
LITTER	1	5	3	3	4	2	1	-
FR BOIL	-	-	-	-	-	-	-	-
BARE GR.	-	-	-	-	-	-	-	-
# TUSS.	-	-	-	-	-	-	-	-
VOLES								
HOLES	-	-	-	-	-	-	-	-
TRAILS	-	-	-	-	-	-	-	-
% LITTER	-	-	-	-	-	-	-	-
TIME	1551	1554	1559	1601	1551	1554	1559	1601

EAST

WEST

Amanda
Kota
Nick
Taryn

SITE MAT89		BLOCK 4		TR CT2					NOTES						
DATE 7/23/21		INITIALS MR, KL, KV, NP, AH START TIME 929													
SPECIES		QUADRAT								Q1					
		A 1 N	1 2 E	A 3 N	1 4 W	A 5 N	1 6 W	A 7 N	1 8 E						
ERI VAG		14	3	5	12	5	5	8	10						
EV. LITTER		7	4	2	11	2	6	2	6						
CAR BIG		2	1	0	3	2	0	1	3						
GRASS ex.		0	0	0	0	0	0	0	0						
BET NAN		7	12	11	15	5	9	31	7						
DEAD BET		>1	>1	4	>1	5	3	6	1						
SAL PUL		0	>1	1	3	8	6	1	0						
SAL RET		0	0	0	0	0	0	0	0						
ARCALP		0	0	0	0	0	0	0	0						
VAC ULI		0	0	0	0	0	0	0	0						
RUB CHA		10	11	37	17	25	15	10	6						
PET FRI		0	0	0	0	0	0	0	0						
POL BIS		>1	>1	0	>1	>1	>1	>1	2						
LED PAL		14	23	34	12	5	10	5	10						
CAS TET		6	4	3	1	8	4	4	4						
VAC VIT		15	9	15	20	13	8	10	17						
EMP NIG		2	5	14	1	4	2	4	>1						
PED LAP		1	>1	>1	>1	>1	>1	>1	0						
AND POL		0	>1	5	>1	1	1	1	>1						
DEAD EV.		1	2	>1	1	>1	>1	1	>1						
MOSS		10	5	15	11	39	9	24	12						
LICHEN		10	1	15	2	2	1	1	2						
LITTER		3	6	1	4	5	4	1	6						
FR BOIL		0	0	0	0	0	0	0	0						
BARE GR.		0	0	0	0	0	0	0	0						
# TUSS.		6	7	6	6	4	5	6	4						
VOLES															
HOLES		0	1	0	2	1	2	3	3						
TRAILS		0	0	0	0	0	1	0	0						
% LITTER		0	0	0	0	5	4	12	16						
TIME		955	955	1002	1002	1010	1010	1016	1016						

SITE MAT 89		BLOCK 4		TR NP						NOTES			
DATE 7/23/21		INITIALS MR, NP, AM, KV		START TIME 1152						Q1			
SPECIES	QUADRAT								Q1 1 vole latrine 1 flag				
	V1	A2 N	E3	A4 N	E5	A6 N	E7	A8 N					
ERI VAG	-	-	-	-	-	-	-	-					
EV. LITTER	-	-	-	-	-	-	-	-					
CAR BIG	1	-	-	-	-	-	-	-	Q2				
GRASS ex.	-	-	-	-	-	-	-	-					
BET NAN	33	15	-	1	24	11	15	23					
DEAD BET	25	40	27	26	20	34	48	49					
SAL PUL	-	-	-	-	-	-	-	-	Q3				
SAL RET	-	-	9	2	-	-	-	-					
ARCALP	-	-	-	-	-	-	-	-					
VAC ULI	-	-	-	-	-	-	-	-					
RUB CHA	31	19	49	53	27	30	25	3	Q4				
PET FRI	-	-	-	-	-	-	-	-					
POL BIS	-	-	-	-	-	-	-	-					
LED PAL	-	-	-	-	-	-	-	-					
CAS TET	-	-	-	-	-	-	-	-	Q5				
VAC VIT	-	-	-	-	-	-	-	-					
EMP NIG	-	-	-	-	-	-	-	-					
PED LAP	-	-	-	-	-	-	-	-	Q6				
AND POL	-	-	-	-	-	-	-	-					
DEAD EV.	-	-	-	-	-	-	-	-					
MOSS	-	-	-	>1	-	-	-	-					
LICHEN	>1	>1	>1	>1	-	>1	-	>1	Q7				
LITTER	9	3	10	10	7	12	3	7					
FR BOIL	-	-	-	-	-	-	-	-					
BARE GR.	-	-	-	-	-	-	-	-					
# TUSS.	-	-	-	-	-	-	-	-	Q8				
VOLES													
HOLES	-	-	-	-	-	-	-	-					
TRAILS	-	-	-	-	-	-	-	-					
% LITTER	-	-	-	-	-	-	-	-					
TIME	1154	1154	1156	1156	1158	1158	1202	1202					

SITE MATOB		BLOCK 1		TR GH				NOTES	
		INITIALS MR, NP, PM, JV		START TIME 1245					
SPECIES		QUADRAT							
		N 1	A 2	3 E	M 4	N 5	A 6	7 S	8 W
ERIVAG		11	16	8	6	18	15		
EV. LITTER		3	4	4	1	6	3		
CAR BIG		4	2	6	3	1	0		
GRASS ex.		0	0	0	0	0	0		
BET NAN		6	12	10	4	9	8		
DEAD BET		>1	0	>1	0	>1	0		
SAL PUL		0	0	0	0	0	0		
SAL RET		0	0	0	0	0	0		
ARCALP		1	0	0	0	5	0		
VACULI		2	2	2	0	0	>1		
RUB CHA		5	8	8	5	6	6		
PET FRI		0	0	0	0	0	0		
POL BIS		0	1	1	1	0	0		
LED PAL		19	20	10	10	6	11		
CAST TET		0	0	0	0	0	0		
VAC VIT		15	25	22	10	37	29		
EMP NIG		7	0	0	0	0	0		
PED LAP		>1	1	0	0	>1	0		
AND POL		0	0	0	0	0	0		
DEAD EV.		0	0	>1	3	>1	1		
MOSS		2	6	3	6	11	3		
LICHEN		8	2	1	0	>1	2		
LITTER		3	3	4	2	>1	>1		X
FR BOIL		0	0	0	0	0	0		
BARE GR.		0	1	0	0	0	0		
# TUSS.		4	6	4	4	7	7		
VOLES									
HOLES		0	0	0	0	0	0		
TRAILS		0	0	0	0	0	0		
% LITTER		0	0	0	0	4	>1		
TIME		12	12	13	12	13	12		

SITE MAT 89		BLOCK 4		TR GH-NP		NOTES		
DATE 7/23/21		INITIALS M, L, NP, W, H		START TIME 1019				
SPECIES	QUADRAT							
	A 1N	A 2N	A 3N	A 4N	1 5L	1 6L	1 7L	1 8L
ERIVAG	-	-	-	-	-	-	-	-
EV. LITTER	-	L	-	-	-	-	-	-
CAR BIG	-	-	-	-	-	-	-	-
GRASS ex.	-	C	-	-	-	-	-	-
BET NAN	32	22	22	20	4	17	48	18
DEAD BET	19	27	43	39	72	67	13	22
SAL PUL	-	-	-	-	-	-	-	-
SAL RET	-	L	-	-	-	-	-	-
ARC ALP	-	-	-	-	-	-	-	-
VACULI	-	-	-	-	-	-	-	-
RUB CHA	-	46	28	16	22	15	22	39
PET FRI	-	-	-	-	-	-	-	-
POL BIS	-	-	-	-	-	-	-	-
LED PAL	>1	2	-	2	-	-	1	2
CAS TET	-	-	-	-	-	-	-	-
VAC VIT	-	-	-	-	-	-	-	>1
EMP NIG	-	-	-	-	-	-	-	-
PED LAP	-	-	-	-	-	-	-	-
AND POL	-	-	-	-	-	-	-	-
DEAD EV.	L	-	-	-	-	-	-	-
MOSS	1	-	-	>1	-	-	>1	1
LICHEN	-	-	-	-	-	-	-	-
LITTER	4	12	4	5	13	4	6	9
FR BOIL	-	-	-	-	-	L	-	-
BARE GR.	-	-	-	-	-	-	-	-
# TUSS.	-	-	-	-	-	-	-	-
VOLES								
HOLES	-	-	-	-	-	-	-	-
TRAILS	-	L	-	-	-	-	-	-
% LITTER	L	L	C	-	-	-	-	-
TIME	1032	1026	1025	1022	1022	1025	1028	1032

SITE MDT89	BLOCK 4		TR EX-NP				NOTES		
DATE 7/23/21	INITIALS MR, NP, AM, KV		START TIME 1134				Q1		
SPECIES	QUADRAT								
	1'	A 2N	K 3	A 4N	K 5	A 6N	K 7	A 8N	
ERIVAG	>1	-	6	-	2	>1	-	-	
EV. LITTER	-	-	4	-	>1	-	-	-	
CAR BIG	-	-	-	-	1	2	-	-	
GRASS ex.	-	-	-	-	2	-	-	-	
BET NAN	18	22	12	3	17	1	9	21	
DEAD BET	33	29	18	12	3	12	7	13	
SAL PUL	-	-	-	-	-	3	1	-	
SAL RET	-	-	-	-	-	-	-	-	
ARCALP	-	-	-	-	-	-	-	-	
VAC ULI	-	-	-	-	-	-	1	-	
RUB CHA	30	11	39	85	43	29	34	26	
PET FRI	-	-	-	-	-	-	-	-	
POL BIS	-	-	-	-	-	-	-	-	
LED PAL	1	-	-	>1	2	13	2	3	
CAS TET	-	-	-	-	-	-	-	-	
VAC VIT	-	-	-	-	1	>1	-	-	
EMP NIG	-	1	-	>1	-	-	-	2	
PED LAP	-	-	-	-	-	-	-	-	
AND POL	-	-	-	-	-	-	-	-	
DEAD EV.	-	1	-	-	-	-	-	-	
MOSS	-	-	-	-	3	-	-	-	
LICHEN	-	>1	-	>1	-	-	-	-	
LITTER	10	4	5	3	11	4	4	17	
FR BOIL	-	1	-	-	-	-	-	-	
BARE GR.	-	-	1	-	-	-	-	-	
# TUSS.	-	1	-	-	-	-	-	-	
VOLES									
HOLES	-	1	-	1	-	-	4	-	
TRAILS	-	-	1	-	-	-	2	-	
% LITTER	-	1	-	1	-	1	-	-	
TIME	1137	1137	1140	1140	1144	1144	1148	1148	

SITE	MAT89	BLOCK	4	TRGH-CT						NOTES
DATE	7/23/21	INITIALS	MR, NP, KW, AM	START TIME	1040					
SPECIES	QUADRAT									
	A ¹ N	A ² N	A ³ N	A ⁴ N	1	5L	6L	7L	8L	
ERIVAG	12	6	6	11	3	3	5	15		4 wooden stakes
EV. LITTER	3	3	4	6	8	7	3	3		4 flag
CAR BIG	-	-	>1	2	1	5	-	-		4 pieces of tape
GRASS ex.	-	-	-	-	-	-	-	-		metal tag
BET NAN	9	14	8	12	13	13	11	8		4 flags
DEAD BET	6	4	7	17	9	5	4	1		
SAL PUL	10	8	6	4	10	9	10	8		
SAL RET	-	-	-	-	-	-	-	-		
ARCALP	-	-	-	-	-	-	-	-		
VACULI	-	-	>1	1	-	-	-	-		
RUB CHA	23	9	21	21	9	11	5	7		
PET FRI	-	5	-	-	-	-	-	-		
POL BIS	>1	-	>1	1	-	-	>1	-		
LED PAL	4	9	5	3	5	6	6	13		
CAST TET	-	>1	>1	>1	3	2	>1	1		
VAC VIT	2	>1	1	>1	1	1	4	1		
EMP NIG	2	1	-	>1	-	-	0	1		
PED LAP	1	-	>1	-	-	-	-	-		
AND POL	1	1	4	8	1	2	0	>1		
DEAD EV.	3	1	1	1	1	2	2	3		
MOSS	3	4	9	5	3	13	5	4		
LICHEN	-	-	-	-	>1	>1	-	>1		
LITTER	3	10	4	2	6	10	7	5		
FR BOIL	-	-	-	-	-	-	-	-		
BARE GR.	-	-	-	-	-	-	-	>1		
# TUSS.	2	8	3	5	6	1	6	7		
VOLES										
HOLES	-	-	-	1	-	2	-	-		
TRAILS	-	-	-	1	-	-	-	-		
% LITTER	-	2	5	4	2	5	-	-		
TIME	1111	1104	1056	1049	1049	1056	1104	1111		

EAST

WEST

SITE MATOG		BLOCK 1		TR C				NOTES	
DATE 7/20/21		INITIALS MRL, NP, HK		START TIME 1120				Q1	
SPECIES	QUADRAT								Mushrooms
	1	2	3	4	5	6	7	8	
ERI VAG	30	14	12	10	7	10	8	10	
EV. LITTER	16	6	7	5	5	6	5	5	
CAR BIG	>1	6	3	4	5	4	5	4	
GRASS ex.	1	1	0	0	0	0	0	>1	
BET NAN	8	17	17	30	22	5	9	15	
DEAD BET	0	1	0	2	1	1	1	1	
SAL PUL	>1	2	5	0	0	0	0	0	
SAL RET	0	0	0	0	0	0	0	0	
ARCALP	1	1	0	0	0	0	0	0	
VAC ULI	3	0	>1	1	2	2	2	>1	
RUB CHA	1	5	8	5	6	6	10	17	
PET FRI	0	0	0	0	0	0	0	0	
POL BIS	>1	>1	1	>1	1	>1	>1	0	
LED PAL	18	18	10	15	2	5	18	5	
CAS TET	0	2	>1	0	0	0	0	0	
VAC VIT	8	7	4	7	14	16	10	18	
EMP NIG	2	3	8	3	1	>1	1	8	
PED LAP	0	0	>1	>1	>1	>1	2	>1	
AND POL	0	0	0	0	0	0	0	0	
DEAD EV.	2	2	1	1	2	1	1	>1	
MOSS	5	6	15	11	12	6	11	3	
LICHEN	1	1	1	>1	1	>1	>1	>1	
LITTER	2	3	1	1	5	3	2	2	
FR BOIL	0	0	0	0	0	0	0	0	
BARE GR.	1	0	0	0	0	0	0	0	
# TUSS.	10	7	5	5	5	6	6	4	
VOLES									
HOLES	0	0	0	0	0	0	0	0	
TRAILS	1	0	0	0	0	0	1	0	
% LITTER	1	0	0	0	0	0	1	0	
TIME	1125	1131	1137	1142	1147	1153	1158	1204	

Site: MATD6		Block: 1		Tr: F2				Notes			
Date: 7/19/21		Initials: MR, LC, RA									
SPECIES		11:06	11:12	Quadrat #							
		1	2	3	4	5	6	7	8		
ERI VAG		4	2	11	9	8	5	9	6		
EV. LITTER		3	1	11	11	4	6	3	7		
CAR BIG		7	5	6	5	4	2	2	12		
GRASS ex.		6	3	3	1	1	1	1	2		
BET NAN		5	19	6	19	3	14	8	5		
DEAD BET		>1	>1	>1	0	0	>1	1	0		
SAL PUL		0	0	0	0	0	0	0	0		
SAL RET		>1	>1	0	0	0	0	0	0		
VAC ULI		2	0	0	0	0	0	0	>1		
RUB CHA		5	9	3	13	16	7	11	8		
PET FRI		0	0	0	0	0	0	0	0		
POL BIS		2	2	2	1	2	1	>1	1		
LED PAL		14	19	20	14	22	27	26	18		
CAS TET		0	0	0	0	0	0	0	0		
VAC VIT		8	4	5	4	3	4	8	16		
EMP NIG		0	>1	0	0	0	0	0	0		
PED LAP		0	0	0	0	1	>1	0	0		
AND POL		0	0	0	0	0	0	0	0		
DEAD EV.		0	0	0	0	0	0	0	4		
ARC ALP				>1	4	3	2	1			
MOSS		0	0	>1	2	2	4	1	2		
LICHEN		0	>1	>1	3	2	1	2	2		
LITTER		10	4	14	2	6	3	1	7		
FR BOIL		0	0	0	0	0	0	0	0		
BARE GR.		0	0	0	0	0	0	0	2		
# TUSS.		3	2	4	5	5	4	3	4		
VOLES			11:06	11:12	11:32	11:43	11:50	12:02	12:13		
HOLES		0	0	0	0	0	0	0			
TRAILS		0	0	0	0	0	0	0			
% LITTER		0	0	0	0	3	0	0			

SITE NUMBER	BLOCK 1		RE FS						NOTES
DATE 7/26/81	INITIALS LFE, TB, KIP		START TIME 9:35						
SPECIES	QUADRAT								
	1	2	3	4	5	6	7	8	
ERIVAG	2	9	12	2	9	12	11	4	
EV LITTER	4	18	5	4	7	5	4	2	
CAR BIG	3	7	3	2	7	4	1	0	
GRASS EN	2	21	2	3	1	3	21	0	
BET NAW	15	19	2	24	6	14	19	6	
DEAD BET	1	3	0	>1	>1	1	2	4	
SAL PUL	0	0	0	0	0	0	0	0	
SAL RET	0	0	0	0	0	0	0	0	
ARCALP	0	0	0	0	0	0	0	0	
VAC ULI	>1	>1	0	>1	>1	1	>1	>1	
RUB CHA	14	6	17	16	16	12	7	5	
PET FRN	0	0	0	0	0	0	0	0	
POL BS	0	0	0	1	0	21	0	0	
LED PAL	25	16	41	46	20	15	26	12	
CAS TET	0	0	0	0	0	0	0	0	
VAC VIT	>1	>1	4	2	1	>1	1	>1	
EMP NIG	0	>1	0	0	0	0	0	>1	
PED LAP	0	0	0	0	0	0	0	0	
AND POL	0	0	0	0	0	0	0	0	
DEADEV.	>1	0	2	2	2	3	5	>1	
MOSS	0	2	0	1	2	>1	0	1	
LICHEN	>1	0	1	>1	2	>1	>1	>1	
LITTER	3	4	2	4	16	5	3	3	
TF BOL	0	0	0	0	0	0	0	0	
DARE GR	0	0	0	0	>1	0	>1	0	
PTLSS	4	9	9	2	3	4	4	5	
VOLES									
HOLES	0	0	0	0	0	0	0	0	
TRAILS	0	0	0	0	0	0	0	1	
BL LITTER	0	0	0	0	0	0	0	0	
TIME	0:00	0:07	0:14	0:21	0:28	0:35	0:42	0:49	

Q1

Q2

Q3

Q4

Q5

Q6

Q8

small spruce regeneration

SITE MAT06		BLOCK 1		TR F10				NOTES	
DATE 07/20/21		INITIALS MR, IK, NP		START TIME 1049				Q1	
SPECIES	QUADRAT								
	1	2	3	4	5	6	7	8	
ERI VAG	0	5	>1	0	23	6	2	4	
EV. LITTER	0	6	2	2	13	4	1	7	Moss
CAR BIG	3	>1	1	>1	1	>1	>1	>1	
GRASS ex.	0	5	1	8	23	3	2	4	
BET NAN	64	38	58	73	10	47	77	54	
DEAD BET	9	5	8	4	0	>1	3	4	
SAL PUL	0	0	0	0	1	0	0	0	
SAL RET	0	0	0	0	0	0	0	0	
ARCALP	0	0	0	0	0	0	0	0	
VAC ULI	0	0	0	0	0	0	0	0	
RUB CHA	14	19	16	4	23	13	7	17	
PET FRI	0	0	0	0	0	0	0	0	
POL BIS	0	0	0	0	0	0	0	0	
LED PAL	0	0	0	0	>1	11	4	3	
CAS TET	0	0	0	0	0	0	0	0	
VAC VIT	0	0	0	0	0	0	0	0	
EMP NIG	0	0	0	0	0	0	0	0	
PED LAP	0	0	0	0	0	0	0	0	
AND POL	0	0	0	0	0	0	0	0	
DEAD EV.	>1	>1	0	0	0	1	>1	>1	
MOSS	0	0	1	>1	0	4	0	0	
LICHEN	0	>1	>1	0	>1	>1	0	0	
LITTER	6	2	1	4	4	4	1	1	
FR BOIL	0	0	0	0	0	0	0	0	
BARE GR.	1	>1	1	>1	0	>1	>1	>1	
# TUSS.	0	2	0	0	2	2	2	2	
VOLES									2 dead patches
HOLES	0	0	0	0	0	0	0	0	
TRAILS	0	0	1	0	0	0	0	0	
% LITTER	0	0	0	0	0	0	0	0	
TIME	1051	1055	1059	1102	1107	1110	1113	1116	

SITE MAP 06	BLOCK 2		TR C					NOTES
DATE 7/20/21	INITIALS MR, NP, IK			START TIME 1346				Q1
SPECIES	QUADRAT							
	1	2	3	4	5	6	7	8
ERI VAG	36	30	9	11	11	17	22	13
EV. LITTER	4	6	3	4	4	6	6	3
CAR BIG	2	5	3	5	4	3	7	10
GRASS ex.	0	0	0	0	1	>1	0	0
BET NAN	7	11	18	32	6	4	8	21
DEAD BET	>1	>1	>1	1	0	>1	2	1
SAL PUL	0	0	8	5	6	4	1	9
SAL RET	0	0	0	0	0	0	0	0
ARCALP	0	4	12	>1	0	2	0	0
VAC ULI	0	5	1	0	0	1	0	0
RUB CHA	0	0	0	0	0	0	0	0
PET FRI	0	0	0	0	0	0	0	0
POL BIS	2	1	2	>1	>1	>1	>1	0
LED PAL	3	7	2	22	16	21	19	28
CAS TET	0	0	0	0	0	0	0	0
VAC VIT	12	7	5	1	2	6	9	5
EMP NIG	3	5	0	1	2	1	3	1
PED LAP	>1	>1	>1	>1	1	>1	>1	>1
AND POL	0	0	0	0	0	0	0	0
DEADEV.	>1	1	1	1	>1	>1	>1	>1
MOSS	5	8	2	8	5	0	1	4
LICHEN	>1	1	>1	>1	>1	1	6	>1
LITTER	1	3	3	2	4	2	5	2
FR BOIL	0	0	4	1	0	0	0	0
BARE GR.	0	>1	>1	>1	>1	>1	>1	0
# TUSS.	8	3	5	4	6	6	5	3
VOLES								
HOLES	0	0	0	0	0	1	1	0
TRAILS	1	0	0	0	1	1	1	1
% LITTER	3	0	0	0	0	4	0	0
TIME	1351	1358	1401	1406	1409	1413	1418	1422

2 thypics (3%)

SITE MAT06		BLOCK 2		TR F2				NOTES	p. 35
DATE 7/20/21		INITIALS MR, LC, NP				START TIME 1432		Q1	
SPECIES	QUADRAT								
	1	2	3	4	5	6	7	8	
ERI VAG	6	9	18	10	15	12	10	9	
EV. LITTER	3	3	8	3	5	2	4	3	
CAR BIG	2	3	2	2	5	2	4	9	
GRASS ex.	0	>1	>1	0	0	0	0	0	
BET NAN	22	22	12	5	9	10	10	11	
DEAD BET	>1	>1	2	2	0	>1	1	>1	
SAL PUL	2	1	1	1	0	0	2	1	
SAL RET	0	0	0	0	0	0	0	0	
ARCALP	0	0	0	0	0	0	0	0	
VAC ULI	2	0	0	0	0	0	0	0	
RUB CHA	8	7	6	13	14	25	25	10	
PET FRI	0	0	0	0	0	0	0	0	
POL BIS	2	7	2	7	1	>1	>1	>1	
LED PAL	39	39	20	25	42	32	26	2	
CAS TET	0	0	0	0	0	0	0	0	
VAC VIT	5	3	6	14	4	4	5	7	
EMP NIG	>1	>1	0	>1	0	>1	0	0	
PED LAP	>1	>1	>1	-1	>1	0	>1	>1	
AND POL	0	0	0	0	0	0	0	0	
DEAD EV.	>1	>1	>1	>1	0	>1	>1	0	
MOSS	>1	0	0	1	0	0	2	>1	
LICHEN	>1	>1	>1	>1	0	0	>1	>1	
LITTER	2	2	1	2	2	>1	2	2	
FR BOIL	0	0	0	0	0	0	0	0	
BARE GR.	0	>1	0	0	0	0	0	0	
# TUSS.	5	4	6	6	4	3	5	4	
VOLES									
HOLES	0	0	0	0	0	0	0	0	
TRAILS	0	0	0	0	0	0	0	0	
% LITTER	0	0	0	0	0	0	0	0	
TIME	1436	1442	1447	1451	1455	1458	1502	1505	

Control tussock present

SITE MATOB	BLOCK 2		TR FG				NOTES	p. 36
DATE 7/20/21	INITIALS MR, NP, JL		START TIME 1248				Q1	
SPECIES	QUADRAT							
	1	2	3	4	5	6	7	8
ERI VAG	5	0	2	>1	5	5	0	1
EV. LITTER	>1	2	4	4	7	5	0	0
CAR BIG	1	>1	0	>1	0	7	>1	1
GRASS ex.	13	4	4	4	4	4	14	4
BET NAN	23	14	19	11	15	18	34	19
DEAD BET	0	>1	>1	>1	1	1	1	>1
SAL PUL	1	0	0	>1	1	3	2	10
SAL RET	0	0	0	0	0	0	0	0
ARCALP	0	0	0	0	0	0	0	0
VAC ULI	0	2	0	0	>1	0	0	>1
RUB CHA	0	0	0	0	0	0	0	0
PET FRI	0	0	0	0	0	0	0	0
POL BIS	>1	0	>1	0	>1	>1	0	>1
LED PAL	29	53	1	30	35	26	20	20
CAS TET	0	0	0	0	0	0	0	0
VAC VIT	0	>1	>1	0	1	1	0	1
EMP NIG	0	0	0	0	0	0	0	0
PED LAP	0	0	0	0	0	0	>1	0
AND POL	0	0	0	0	0	0	0	0
DEAD EV.	1	1	1	1	>1	>1	>1	>1
MOSS	0	0	0	0	0	0	0	0
LICHEN	>1	0	0	0	0	0	0	0
LITTER	6	2	1	1	5	5	8	2
FR BOIL	0	0	0	0	0	0	0	0
BARE GR.	0	0	0	0	0	0	0	0
# TUSS.	1	0	2	1	3	2	0	1
VOLES								
HOLES	0	0	0	0	0	0	0	0
TRAILS	0	0	0	0	0	0	0	0
% LITTER	0	0	0	0	0	0	0	0
TIME	1303	1308	1313	(oops)	1328	1336	1338	

TUSSOCK = + more plant filler

SITE	MAT86	BLOCK	2	TR	F10		NOTES	P. 37
DATE	7/20/21	INITIALS	MF, K, NP		START TIME	1513		
SPECIES		QUADRAT						
	1	2	3	4	5	6	7	8
ERI VAG	1	9	2	>1	4	0	6	1
EV. LITTER	0	1	1	3	0	0	>1	1
CAR BIG	0	0	0	1	>1	0	0	0
GRASS ex.	8	11	13	17	4	2	0	4
BET NAN	50	41	58	37	54	80	28	45
DEAD BET	1	1	>1	1	2	3	2	1
SAL PUL	0	0	0	0	0	0	0	0
SAL RET	0	0	0	0	0	0	0	0
ARCALP	0	0	0	0	0	0	0	0
VAC ULI	0	0	0	0	0	0	0	0
RUB CHA	19	16	8	6	22	10	62	12
PET FRI	0	0	0	0	0	0	0	0
POL BIS	0	0	0	0	0	0	0	0
LED PAL	0	0	1	>1	1	>1	2	8
CAS TET	0	0	0	0	0	0	0	0
VAC VIT	0	0	0	0	0	0	0	0
EMP NIG	0	0	0	0	0	0	0	0
PED LAP	0	0	0	0	0	0	0	0
AND POL	0	0	0	0	0	0	0	0
DEAD EV.	0	0	0	0	0	0	>1	1
MOSS	0	2	0	0	0	0	0	0
LICHEN	0	0	0	0	0	0	0	0
LITTER	0	3	1	>1	4	0	>1	1
FR BOIL	0	0	0	0	0	0	0	0
BARE GR.	0	0	0	0	0	>1	0	0
# TUSS.	0	1	1	6	1	0	1	1
VOLES								
HOLES	0	0	0	0	0	0	0	0
TRAILS	0	0	0	0	0	0	0	0
% LITTER	0	0	0	3	1	0	0	0
TIME	1517	(:)	1521	1524	1527	1530	(:)	1533

SITE MATOB		BLOCK 2		TR GH				NOTES	
DATE 7/23/2021		INITIALS IK, AY, NP		START TIME 1:23				Q1	
SPECIES	QUADRAT								Q2
	1	2	3	4	5	6	7	8	
ERI VAG	22	33	40	17	15	20			
EV. LITTER	6	6	8	4	9	6			
CAR BIG	4	6	6	2	3	9			
GRASS ex.	0	0	0	0	0	0			
BET NAN	13	8	15	3	17	11			
DEAD BET	>1	0	<1	0	<1	0			
SAL PUL	0	0	0	0	0	2			
SAL RET	0	0	0	0	0	0			
ARC ALP	0	0	3	4	1	2			
VACULI	9	8	6	12	11	14			
RUB CHA	0	0	0	0	0	0			
PET FRI	0	0	0	0	0	0			
POL BIS	1	<1	2	4	1	2			
LED PAL	10	8	8	4	8	5			
CAS TET	0	0	0	0	0	1			
VAC VIT	7	11	9	8	3	7			
EMP NIG	>1	<1	<1	12	4	4			
PED LAP	0	0	0	0	0	0			
AND POL	0	0	0	0	0	0			
DEAD EV.	0	1	0	1	1	1			
MOSS	5	6	2	16	9	11			
LICHEN	1	1	<1	2	1	1			
LITTER	4	2	6	2	1	2			
FR BOIL	0	0	0	0	0	0			
BARE GR.	0	0	0	0	<1	0			
# TUSS.	6	6	9	3	6	6			
VOLES									
HOLES	0	0	0	0	0	0			
TRAILS	0	0	0	0	0	0			
% LITTER	0	0	0	0	0	0			
TIME	1:27	1:34	1:43	1:50	1:56	2:04			

SITE MATDG		BLOCK 3		TR C				NOTES		
DATE 7/21/21		INITIALS MR, IL, NP		START TIME 1122						
SPECIES	QUADRAT									
	1	2	3	4	5	6	7	8		
ERI VAG	12	5	15	8	6	1	3	13		
EV. LITTER	7	2	12	4	2	>1	2	4		
CAR BIG	10	13	3	7	16	2	7	6		
GRASS ex.	0	0	0	0	0	0	0	0		
BET NAN	5	17	23	12	17	39	4	9		
DEAD BET	4	4	2	4	>1	1	>1	1		
SAL PUL	6	2	1	0	1	3	2	2		
SAL RET	0	0	0	0	0	0	0	0		
ARC ALP	0	0	0	0	0	0	0	0		
VAC ULI	0	1	1	0	10	3	11	7		
RUB CHA	0	0	0	0	0	0	0	0		
PET FRI	0	>1	0	2	2	1	1	2		
POL BIS	>1	>1	>1	>1	1	>1	>1	1		
LED PAL	6	4	6	11	3	12	5	5		
CAS TET	11	5	2	6	0	>1	4	4		
VAC VIT	2	10	2	5	7	6	5	2		
EMP NIG	2	2	0	0	1	2	>1	1		
PED LAP	>1	0	>1	3	>1	>1	>1	>1		
AND POL	0	0	0	0	0	0	0	0		
DEAD EV.	>1	1	>1	1	0	>1	>1	>1		
MOSS	11	5	9	7	15	6	3	8		
LICHEN	6	1	8	3	1	1	2	6		
LITTER	17	16	3	8	19	8	14	6		
FR BOIL	0	0	0	0	0	0	0	0		
BARE GR.	0	0	0	4	0	0	0	0		
# TUSS.	4	2	6	4	3	1	1	5		
VOLES										
HOLES	2	3	1	0	0	2	0	1		
TRAILS	1	1	1	2	0	0	0	0		
% LITTER	2	0	1	3	0	0	0	0		
TIME	1127	1131	1134	1139	1146	1151	1155	1200		

This treatment is different — 4x4 grating at 10m

SITE MATOG		BLOCK 3		TR P2		NOTES		
DATE 7/21/21		INITIALS MR, WK, NP		START TIME 925				
SPECIES	QUADRAT							
	1	2	3	4	5	6	7	8
ERI VAG	>1	>1	0	0	6	0	2	5
EV. LITTER	0	2	0	0	4	0	3	4
CAR BIG	9	6	4	2	3	3	4	3
GRASS ex.	1	3	4	7	6	4	4	1
BET NAN	42	24	14	35	28	33	23	15
DEAD BET	>1	1	0	1	>1	1	>1	>1
SAL PUL	2	16	4	5	2	2	1	1
SAL RET	0	0	0	0	0	0	0	0
ARC ALP	0	3	18	9	0	0	0	>1
VAC ULI	>1	2	4	2	>1	2	0	>1
RUB CHA	0	0	1	3	1	5	8	14
PET FRI	0	0	0	0	0	0	0	0
POL BIS	>1	0	>1	>1	>1	0	0	>1
LED PAL	32	17	22	16	15	20	21	23
CAS TET	>1	7	>1	>1	>1	1	6	>1
VAC VIT	3	8	7	5	7	5	6	3
EMP NIG	1	>1	0	>1	>1	>1	>1	>1
PED LAP	0	>1	>1	0	>1	>1	>1	>1
AND POL	0	0	>1	0	0	0	0	>1
DEAD EV.	>1	2	1	>1	>1	1	>1	2
MOSS	0	6	3	11	4	>1	1	2
LICHEN	>1	2	3	2	>1	>1	>1	>1
LITTER	11	4	15	9	14	9	13	4
FR BOIL	0	0	0	0	0	0	0	0
BARE GR.	0	0	0	0	0	0	0	>1
# TUSS.	0	0	0	0	2	0	1	2
VOLES								
HOLES	0	0	0	0	0	0	1	1
TRAILS	0	0	0	0	0	0	0	1
% LITTER	0	0	0	0	0	0	0	1
TIME	936	941	953	957	1002	1006	1011	1016

SITE MHTOG		BLOCK 3		TR F5					NOTES	
DATE 07/21/21		INITIALS MR, NP, IK				START TIME 1025				
SPECIES	QUADRAT								Q1	
	1	2	3	4	5	6	7	8		
ERI VAG	0	0	0	1	>1	3	4	3		
EV. LITTER	0	0	0	>1	>1	2	4	6		
CAR BIG	0	2	0	0	0	2	0	0		Q2
GRASS ex.	25	11	17	13	8	9	8	13		
BET NAN	17	15	35	20	24	49	28	46		
DEAD BET	3	2	3	5	13	9	1	6		
SAL PUL	2	2	1	1	1	0	2	0		Q3
SAL RET	0	0	0	0	0	0	0	0		
ARC ALP	0	0	0	0	0	0	0	0		
VAC ULI	>1	>1	0	>1	0	>1	0	>1		
RUB CHA	0	0	0	0	0	0	0	0		Q4
PET FRI	4	30	10	32	32	2	0	1		
POL BIS	>1	3	>1	>1	>1	3	1	1		
LED PAL	8	14	17	14	8	13	7	11		
CAS TET	0	0	0	0	>1	0	0	0		Q5
VAC VIT	1	1	1	1	1	>1	1	2		
EMP NIG	0	0	0	0	0	0	0	0		
PED LAP	0	0	0	0	0	0	0	0		
AND POL	0	0	0	0	0	0	>1	>1		Q6
DEAD EV.	>1	1	>1	>1	>1	>1	>1	>1		
MOSS	0	1	0	0	0	0	0	1		
LICHEN	0	>1	0	0	>1	0	0	>1		Q7
LITTER	10	9	5	5	4	3	6	3		Control tuft present
FR BOIL	0	0	0	0	0	0	0	0		
BARE GR.	>1	>1	>1	>1	0	0	1	1		
# TUSS.	0	0	0	0	0	2	2	3		Q8
VOLES										
HOLES	1	2	1	2	0	2	3	1		
TRAILS	1	1	1	0	0	1	1	2		
% LITTER	2	3	2	4	0	6	5	0		
TIME	1030	1039	1043	1047	1050	1055	1059	1105		

SITE MAP	BLOCK 3			TR F10				NOTES
DATE 7/21/21	INITIALS MR, HK, NP			START TIME 1202				
SPECIES	QUADRAT							
	1	2	3	4	5	6	7	
ERI VAG	0	0	0	0	0	>1	0	>1
EV. LITTER	0	0	0	0	0	0	0	2
CAR BIG	0	0	0	0	0	0	0	0
GRASS ex.	20	14	13	3	0	0	0	0
BET NAN	21	24	51	60	76	84	84	93
DEAD BET	19	18	5	5	14	7	7	6
SAL PUL	0	0	0	0	0	0	0	0
SAL RET	0	0	0	0	0	0	0	0
ARC ALP	0	0	0	0	0	0	0	0
VAC ULI	0	0	0	0	0	0	0	0
RUB CHA	0	0	0	0	0	0	0	0
PET FRI	9	3	11	10	0	0	0	0
POL BIS	0	0	>1	0	0	>1	0	>1
LED PAL	>1	2	0	-1	1	2	2	3
CAS TET	0	0	0	0	0	0	0	0
VAC VIT	0	0	0	>1	>1	>1	>1	>1
EMP NIG	2	0	0	0	>1	0	0	>1
PED LAP	0	0	0	0	0	0	0	0
AND POL	0	0	0	0	0	0	0	0
DEAD EV.	0	>1	0	0	1	>1	0	0
MOSS	1	0	0	0	0	0	0	>1
LICHEN	0	0	0	0	3	0	0	>1
LITTER	10	25	9	9	6	4	10	8
FR BOIL	0	0	0	0	0	0	0	0
BARE GR.	1	0	0	1	1	1	1	1
# TUSS.	0	0	0	0	0	0	0	0
VOLES								
HOLES	5	4	3	2	1	0	0	0
TRAILS	1	2	2	1	0	0	0	0
% LITTER	6	6	1	0	0	0	1	1
TIME	1205	1207	1212	1216	(--)	1220	1224	1227

42

Q1
Vole latrine

Q2

Q3

Q4

Skel Long = >1
Vole latrine

Q5

all Bet nan litter

Q6

Q7

chewed Bet nan stem

Q8

SITE	BLOCK 3		TR 64		NOTES			
DATE	INITIALS	NW	START TIME	1330	Q1			
SPECIES	QUADRAT							
	1	2	3	4	5	6	>	<
ERI VAG	2	10	5	24	11	2		
EV. LITTER	2	4	2	10	5	2		
CAR BIG	16	4	21	4	2	8		
GRASS ex.	0	0	0	0	—	—		
BET NAN	16	13	10	19	29	20		
DEAD BET	1	1	2	1	3	3		
SAL PUL	3	>1	2	4	10	5		
SAL RET	7	9	0	0	—	—		
ARCALP	0	0	0	0	—	—		
VAC ULI	2	0	0	1	4	5		
RUB CHA	0	0	0	0	—	—		
PET FRI	0	0	0	0	—	—		
POL BIS	2	>1	1	1	>1	3		
LED PAL	4	5	45	5	2	13		
CAS TET	>1	1	>1	1	1	—		
VAC VIT	4	9	4	3	10	16		
EMP NIG	2	5	6	2	6	2		
PED LAP	0	>1	>1	0	<1	1		
AND POL	0	0	0	0	—	—		
DEAD EV.	1	>1	>1	>1	2	1		
UNIDENT.								
MOSS	>1	7	2	4	5	1		
LICHEN	1	1	4	1	>1	3		
LITTER	16	6	12	7	4	10		
FR BOIL	0	0	2	4 (old)	—	—		
BARE GR.	0	0	>1	>1	—	<1		
# TUSS.	1	3	2	6	3	1		
VOLES								
HOLES	0	0	0	0	—	—		x
TRAILS	0	0	0	1	—	—		
% LITTER	0	5	0	0	4	0		
TIME	1333	1338	1341					

~~#153~~ ^{Quadrat} are on another sheet - had to re-do.

p. 44

SITE	EMAT MATOB		BLOCK 1	TR	GH	NOTES			
DATE	7-23-2021		INITIALS NAW, KVM, Mh	START TIME 2:06					
SPECIES	1	2	3	4	5	6	7	8	
ERIVAG	20	5	13	17					
EV. LITTER	12	5	5	5					
CAR-BIG	12	6	3	3					
GRASS ex.	—	—	—	—					
BET NAN	8	11	2	4					
DEAD BET	4	4	4	4					
SAL PUL	—	—	—	—					
SAL RET	—	—	—	—					
ARCALP	5	—	2	4					
VACULI	11	1	4	4					
RUB CHA	3	6	6	4					
PET FRI	—	—	—	—					
POL BIS	2	4	4	4					
LED PAL	10	13	20	7					
CAS TET	—	—	—	—					
VAC VIT	10	25	13	12					
EMP NIG	4	—	—	2					
PED LAP	—	4	4	—					
AND POL	—	—	—	—					
DEADEV.	4	1	4	4					
MOSS	0	2	4	4					
LICHEN	4	4	4	4					
LITTER	6	4	3	4					
FR BOIL	—	—	—	—					
BARE GR.	4	4	4	4					
# TUSS.	5	2	2	6					
VOLES									
HOLES	—	—	—	—					
TRAILS	—	—	—	—					
% LITTER	—	—	—	—					
TIME	2:11	2:15	2:19	2:23					

* also see p. 26

SITE MATOG	BLOCK 4				TR C				NOTES
DATE 7/21/21	INITIALS MR, KWP				START TIME 1315				
SPECIES	QUADRAT								
	1	2	3	4	5	6	7	8	
ERIVAG	4	0	8	0	1	2	1	0	
EV. LITTER	4	0	4	0	1	2	2	0	
CAR BIG	16	20	10	11	8	12	14	0	
GRASS ex.	0	0	0	0	0	0	5	20	
BET NAN	2	2	4	6	1	3	4	3	
DEAD BET	1	0	0	1	8	1	1	2	
SAL PUL	6	8	0	0	27	8	8	8	
SAL RET	1	6	0	>1	1	0	2	7	
ARC ALP	0	0	0	0	0	0	0	>1	
VACULI	6	13	12	13	2	13	10	3	
RUB CHA	0	0	0	0	0	0	0	0	
PET FRI	4	3	1	4	4	11	3	6	
POL BIS	>1	1	1	2	3	>1	1	1	
LED PAL	1	2	1	1	1	2	2	1	
CAS TET	17	>1	7	8	5	4	1	32	
VAC VIT	3	12	4	1	>1	2	>1	3	
EMP NIG	0	>1	0	0	0	0	1	0	
PED LAP	>1	>1	0	0	>1	>1	1	>1	
AND POL	0	0	0	0	0	>1	0	1	
DEAD EV.	>1	1	>1	>1	>1	>1	>1	0	
MOSS	7	>1	3	13	14	29	10	4	
LICHEN	2	9	4	9	1	2	3	2	
LITTER	23	16	14	12	12	5	17	17	
FR BOIL	0	0	0	0	0	0	0	0	
BARE GR.	0	0	0	0	0	0	0	0	
# TUSS.	2	0	4	0	1	0	1	0	
VOLES									
HOLES	0	0	0	0	0	0	0	0	
TRAILS	0	0	0	0	0	0	1	0	
% LITTER	0	0	0	0	0	0	0	0	
TIME	1321	1325	1330	1334	1338	1342	1349	1356	

Q1 Mushrooms

Unknown 6 => 1 MER NEL

Q2 unkown 1 => 1 MER NEL

Q3 MER NEL

Unknown 1 => 1

Unknown 2 => 1 PYR GRA ↑

litter almost all grass ↓

Q4

mushrooms

Unknown 1 => 1 MER NEL

orange cas fet

Q5

dead Bet nan = ded Sal ~~Pul~~50/50 litter
grass

Q6

dead bet nan = ded Sal Pul

Unknown 3 => 1 Pedicularis Kanakii

Dry Oct = 1

Q7

Unknown 4 => 1

Unknown 2 => 1

Q8

Unknown 2 => 1

Dry Oct = > 1

Unknown 5 = -1

- Equisetum

SITE MATOO		BLOCK 4		TR GH		NOTES	
DATE 7/21/21		INITIALS MR, LY, NP		START TIME 1400			
SPECIES	QUADRAT						
	1	2	3	4	5	6	7 8
ERI VAG	10	1	0	2	0	0	
EV. LITTER	4	1	0	3	0	0	
CAR BIG	20	8	14	11	14	5	
GRASS ex.	0	>1	0	0	0	0	
BET NAN	14	10	25	16	13	27	
DEAD BET	2	1	1	1	>1	2	
SAL PUL	0	0	5	17	2	0	
SAL RET	0	0	0	0	0	0	
ARC ALP	>1	2	1	0	0	0	
VAC ULI	15	16	6	4	1	2	
RUB CHA	0	0	0	0	0	0	
PET FRI	1	3	1	0	2	2	
POL BIS	>1	>1	>1	>1	1	2	
LED PAL	2	7	10	18	12	2	
CAS TET	0	0	0	0	0	0	
VAC VIT	12	2	9	3	8	4	
EMP NIG	0	0	0	0	0	0	
PED LAP	>1	>1	>1	>1	>1	0	
AND POL	0	>1	0	0	0	0	
DEAD EV.	>1	>1	1	3	3	>1	
MOSS	15	6	13	11	15	40	
LICHEN	1	10	5	6	5	8	
LITTER	22	24	18	13	22	22	
FR BOIL	0	0	0	0	0	0	
BARE GR.	0	0	0	0	0	0	
# TUSS.	1	2	0	2	0	0	
VOLES							
HOLES	0	0	0	0	0	0	X
TRAILS	0	0	0	0	0	0	
% LITTER	0	0	0	0	0	0	
TIME	1405	1411	1416	1421	1425	1431	

WASPS BUILT NEST IN BATTERY BOX!