A Research Report for the
Rockwell Hanford Operations

Shrub-Inhabiting Insects of the 200 Area Plateau, Southcentral Washington

L.E. Rogers

October 1979

Prepared for the U.S. Department of Energy
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Pacific Northwest Laboratory
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Rockwell Hanford Operations' Long-Term
Transuranic Defense Waste Program.

Pacific Northwest Laboratory
Richland, Washington 99352

EXECUTIVE SUMMARY

This study characterizes the insects (including spiders) associated with major shrubs of the 200 Area plateau on the Hanford Site in southcentral Washington. Big sagebrush (Artemisia tridentata), rabbitbrush (Chrysothamnus sp.) and hopsage (Grayia spinosa) were the three shrubs included in the study. Hemiptera (true bugs) and homoptera (bugs) were the two groups most abundant on sagebrush. Homoptera and Araneida (spiders) were the common inhabitants of rabbitbrush, and Orthoptera (grasshoppers), Coleoptera (beetles) and Araneida the taxa most frequently collected from hopsage. A discussion of the effects of insects on western native shrubs is included. None of the insect populations appeared to threaten the stability of shrub stands, which is important because of the erodability of 200 Area soils.

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SHRUB-INHABITING INSECTS OF THE 200 AREA PLATEAU, SOUTHCENTRAL WASHINGTON

INTRODUCTION

This study was designed to characterize the insects inhabiting the major shrubs of the 200 Area plateau. The objectives of the study were to describe the taxonomic composition, seasonal abundance and general feeding habits of major insect groups. The data presented here are particularly intended for use in nuclear waste management studies.

Characterization studies describing the ecology of the 200 Area plateau have received special attention during the past few years. These studies have been designed to provide an understanding of the biota present in the 200 Area ecosystem, their food habits, and their responses to both natural and man-induced perturbations.

This document describes the types, seasonal abundance and general feeding habits of insect taxa (including spiders) inhabiting the major shrubs of the 200 Area plateau. Past documents concerning 200 Area insects include an analysis of grasshopper populations (Sheldon and Rogers, 1978) and darkling beetle populations (Rogers et al., 1978). Also recently documented (Rogers and Rickard, 1977) is an analysis of the 200 Area ecosystem and a description of the kinds of environmental studies needed to provide an adequate data base for future waste management needs.

Taxonomic composition is primarily described at family and order levels, since this provides sufficient detail for most management applications. Some discussion is included at the specific level where particular species are considered especially important to the waste management objectives.

SITE DESCRIPTION

Three study areas on the Department of Energy's Hanford Site were selected for collection of shrub-inhabiting insects: 1) near the B-C Cribs area, 2) near the former Redox Pond area, and 3) a control area located on the nearby Arid Lands Ecology (ALE) Reserve. Their locations are shown in Figure 1.

Sagebrush/Sandberg bluegrass (Artemisia tridentata/Poa sandbergii) communities dominate all three study locations. Cheatgrass (Bromus tectorum) is abundant in the open areas between shrubs. Past agricultural endeavors probably account for the abundance of cheatgrass and other alien plants at these low elevation study areas at the Hanford Site. Cline et al. (1975) describe the vegetation of these areas more completely. Precipitation in the study areas averages about 15 cm/yr (Stone et al., 1972).

FIGURE 1. The Department of Energy's Hanford Site in Southcentral Washington

METHODS

Insects inhabiting big sagebrush (Artemisia tridentata), hopsage (Grayia spinosa), and rabbitbrush (Chrysothamnus sp.) shrubs were collected using a standard sweep net. Big sagebrush was sampled on all three study sites, but rabbitbrush was only sampled on the B-C Cribs area, and hopsage only on the control area. Hopsage and rabbitbrush plants were not abundant at the other study locations. Each sample collection consisted of 100 sweeps from each shrub species. The collected materials (insects, leaves, etc.) were placed in a killing jar for a few minutes and then transferred to collection jars individually marked with the date, host plant, and location of capture. All collection jars were then transported to the laboratory where the material was sorted and all specimens posted to a key punch form (Figure 2). Representative taxa were retained where identifications were uncertain. These specimens were forwarded to specialists for positive identification. Spiders (Araneida) were also included in the analysis even though they are not members of the class Insecta.

The statistic selected for comparing insect taxa inhabiting study shrubs in different areas or different shrub species was the Spearman rank correlation coefficient: r_s . This is one of the best known and earliest statistics based on ranks developed. The value of r_s may be established according to the formula:

$$r_s = 1 - \frac{6 \sum_{i=1}^N d_i^2}{N^3 - N}$$

where d_i = the difference between rankings for a particular comparison and N = the sample size.

When N is large (>10) the significance of a calculated r_s can be obtained from

$$t = r_s \frac{n-2}{\sqrt{1-r_s^2}}$$

Distribution values are also available from table values. For more detailed information concerning the use of the Spearman rank correlation coefficient, see Dixon and Massey (1969) or Siegel (1956).

DATA TYPE	SITE	INITIALS	DATE			TREATMENT	REPLICATE	PLOT SIZE	QUADRAT	TROPHIC	HOST	ORDER	FAMILY	GENUS	SPECIES	SUBSPECIES	LIFE STAGE	TOTAL NO.	DRY WT.	NO. WEIGH	LENGTH	WIDTH	ID NUMBER
			DAY	MO	YR																		
<p>DATA TYPE</p> <p>01 PITFALL TRAP</p> <p>02 DROP TRAP</p> <p>03 SWEEP NET</p> <p>04 D-VAC</p> <p>05 LIGHT TRAP</p> <p>06 HAND COLLECTION</p> <p>07 MALAISE TRAP</p> <p>SITE</p> <p>01 B-C CRIB AREA</p> <p>02 REDOX AREA</p> <p>03 CONTROL AREA</p> <p>TROPHIC</p> <p>0 UNKNOWN</p> <p>1 PLANT FEEDING (TISSUE)</p> <p>2 PLANT FEEDING (SAP)</p> <p>3 PLANT FEEDING (POLLEN AND NECTAR)</p> <p>4 PLANT FEEDING (SEED)</p> <p>5 PREDATOR</p> <p>6 PARASITOID</p> <p>7 PARASITE</p> <p>8 SCAVENGER</p> <p>9 NON-FEEDING STAGE</p> <p>LIFE STAGE</p> <p>00 UNDETERMINED</p> <p>10 ADULT</p> <p>20 PUPAE</p> <p>30 EGG</p> <p>40 NYMPH OR LARVA</p> <p>41 NYMPH OR LARVA, EARLY</p> <p>42 NYMPH OR LARVA, MIDDLE</p> <p>43 NYMPH OR LARVA, LATE</p> <p>50 INSTAR</p> <p>51 INSTAR, 1st</p> <p>52 INSTAR, 2nd</p> <p>53 INSTAR, 3rd</p>																							

FIGURE 2. Shrub Insect Field Data Sheet

RESULTS

SEASONAL DISTRIBUTION

The seasonal distribution of insect abundance on big sagebrush is shown in Figure 3. Peak abundance occurred earlier in 1974 than the time span appearing in the diagram. The abundance values followed similar patterns in all three study areas, peaking in April or May of both study years.

Insect abundance associated with rabbitbrush and hopsage is shown in Figure 4. The seasonal pattern for insect abundance on rabbitbrush appears bimodal, peaking in May or June and again during September and October. The June peak was comprised mostly of Homoptera (bugs) and Orthoptera (grasshoppers) but the October peak appeared to consist of several different taxa. There were no clear patterns of insect abundance on hopsage.

INSECT TAXA ASSOCIATED WITH RABBITBRUSH

Table 1 shows the relative abundance of invertebrate taxa associated with rabbitbrush. The rankings of these taxa were not significantly different ($\alpha = 0.05$) during both the 1974 and 1975 study years. Four taxa (Homoptera, Orthoptera, Araneida, and Hemiptera) accounted for 90% of individual specimens collected in 1974 and 83% during the 1975 study season.

Homoptera are sucking insects, usually rather small and not readily apparent. Comprised completely of herbivorous species, they are usually among the most numerous of plant feeders (Hewitt et al., 1974). The Homoptera collected from rabbitbrush represented four different families, as indicated in Table 2. The most commonly encountered Homopterans were the leafhoppers. These insects occur on all types of native and cultivated vegetation and their abundance on rabbitbrush is not surprising. Aphids are also common on other rangeland plants but are more abundant on cultivated crops.

The occurrence of grasshoppers on rabbitbrush in the 200 Area plateau has been previously reported by Sheldon and Rogers (1978). The four main species collected during this study were Melanoplus cinereus, Melanoplus yarrowii, Hesperotettix viridis, and Apote notabilis. Hesperotettix spp. has been described as a selective feeder on rabbitbrush (Sheldon and Rogers, 1978) and can usually be found either feeding or resting within the foliage of rabbitbrush. Melanoplus cinereus is also a shrub feeder but tends to concentrate on big sagebrush, feeding on rabbitbrush only incidentally. Both A. notabilis and M. yarrowii are very general feeders and would be expected to be found near rabbitbrush, as well as a variety of other plants.

FIGURE 3. Seasonal Distribution of Insect Abundance on Sagebrush

FIGURE 4. Seasonal Distribution of Insect Abundance on Hopsage and Rabbitbrush

TABLE 1. Relative Abundance (%) of Major Insect Taxa Collected from Rabbitbrush at the B-C Cribs Site During 1974 and 1975

Taxa	1974	1975
	-----%	
Homoptera (bugs)	35.2	21.7
Orthoptera (grasshoppers)	27.6	15.7
Araneida (spiders)	15.0	34.1
Hemiptera (true bugs)	12.0	11.1
Lepidoptera (butterflies, moths)	5.5	7.6
Hymenoptera (ants, bees, wasps)	2.7	3.5
Diptera (flies)	1.0	1.5
Coleoptera (beetles)	0.8	4.6
Neuroptera (lace wings)	0.2	0.4
Others	0.2	0.0

TABLE 2. Homoptera Families Collected from Rabbitbrush Samples

Family	Total Number Collected
Aleyrodidae (whiteflies)	1
Aphidae (aphids)	24
Cicadellidae (leafhoppers)	422
Psyllidae (plant lice)	4

The spiders associated with rabbitbrush were not routinely identified beyond the order (Araneida) level. Several common families were noted, however. These were Clubionidae (two-clawed hunting spiders), Salticidae (jumping spiders) and Thomisidae (crab spiders).

INSECT TAXA ASSOCIATED WITH HOPSAGE

The relative abundance of invertebrate taxa associated with hopsage is shown in Table 3. Rankings of collected taxa showed no significant difference ($\alpha = 0.05$) between the 1974 and 1975 study years.

The Orthoptera (grasshoppers), Coleoptera (beetles) and Araneida (spiders) were clearly the three dominant taxa occupying hopsage. The Chrysomelids (leaf beetles) were the dominant beetle group present. Both the adult and immature stages of this beetle group are plant feeders and many species are serious pests to both native and cultured plants. Interestingly, there were relatively few Hemiptera or Homoptera collected from hopsage, indicating that the sucking insects do not heavily utilize this shrub.

There were a few Lepidoptera associated with hopsage, most of them belonging to the family Geometridae. Observations conducted during 1973 as part of another study showed an abundance of Coleophoridae on hopsage plants near the 200 Area plateau. This is a family of small case-bearing moths. The larvae construct cases composed of silk, bits of leaves, and excrement. They carry these about for protection and extend their heads from the cases to eat leaf material. They have not been detected in abundance since 1973 but presumably could occur in greater numbers at any time.

INSECT TAXA ASSOCIATED WITH SAGEBRUSH

The relative abundance of invertebrate taxa associated with big sagebrush is shown in Tables 4-6. Big sagebrush was sampled near the B-C Cribs area, the Redox area, and the control area. Hemiptera and Homoptera proved to be the most frequently collected taxa from all study areas. Analysis by ranking of relative abundance of collected specimens showed no significant differences ($\alpha = 0.05$) between study locations or between study years (Table 7).

The Hemiptera collected from big sagebrush represented seven different families as shown in Table 8. The plant bugs were by far the most common Hemipteran family associated with sagebrush. This family is the largest in the order and its members can be found on most types of vegetation. Some species are reported to be serious pests of agricultural crops but none have been recorded as major consumers of sagebrush. However, this may be partly because their feeding habits are harder to observe. Since they have sucking mouth parts, their feeding activities are not as apparent as some of the defoliating insect feeders (Lepidopteran larvae, beetles, etc). The Homoptera found associated with sagebrush represented the five families shown in Table 9. The leafhopper family (Cicadellidae) is clearly the most common Homopteran associated with sagebrush. Leafhoppers constitute a very large

TABLE 3. Relative Abundance (%) of Major Insect Taxa Collected from Hopsage During 1974 and 1975 at the Control Site

Taxa	1974	1975
	-----%-----	
Orthoptera (grasshoppers)	30.3	15.9
Coleoptera (beetles)	19.1	33.2
Araneida (spiders)	13.6	26.7
Diptera (flies)	10.5	1.7
Homoptera (bugs)	9.9	3.5
Hymenoptera (ants, bees, wasps)	7.4	4.7
Hemiptera (true bugs)	6.8	6.0
Lepidoptera (butterflies, moths)	2.5	7.3
Neuroptera (lace wings)	0.0	0.4
Other	0.0	0.4

TABLE 4. Relative Abundance (%) of Major Insect Taxa Collected from Big Sagebrush During 1974 and 1975 at the B-C Cribs Site

Taxa	1974	1975
	-----%-----	
Hemiptera (true bugs)	57.5	42.4
Homoptera (bugs)	25.8	34.0
Orthoptera (grasshoppers)	7.9	8.5
Araneida (spiders)	4.4	5.7
Hymenoptera (ants, bees, wasps)	2.4	3.6
Diptera (flies)	0.9	1.3
Lepidoptera (butterflies, moths)	0.6	1.4
Coleoptera (beetles)	0.3	2.5
Neuroptera (lace wings)	0.2	0.5

TABLE 5. Relative Abundance (%) of Major Insect Taxa
Collected from Big Sagebrush During 1974
and 1975 at the Redox Site

Taxa	1974	1975
	-----%	-----
Homoptera (bugs)	41.6	43.8
Hemiptera (true bugs)	37.8	21.1
Araneida (spiders)	6.8	17.3
Orthoptera (grasshoppers)	6.3	5.7
Hymenoptera (ants, bees, wasps)	4.1	4.1
Lepidoptera (butterflies, moths)	1.1	3.0
Coleoptera (beetles)	1.0	1.9
Diptera (flies)	1.0	2.7
Neuroptera (lace wings)	0.3	0.3
Other	0.1	0.0

TABLE 6. Relative Abundance (%) of Major Insect Taxa
Collected from Big Sagebrush During 1974
and 1975 at the Control Site

Taxa	1974	1975
	-----%	-----
Hemiptera (true bugs)	42.8	35.8
Homoptera (bugs)	34.9	27.3
Araneida (spiders)	6.4	8.2
Orthoptera (grasshoppers)	6.4	9.5
Hymenoptera (ants, bees, wasps)	5.8	6.3
Lepidoptera (butterflies, moths)	1.4	1.7
Diptera (flies)	1.0	1.7
Coleoptera (beetles)	1.0	9.0
Neuroptera (lace wings)	0.3	0.5
Other	0.1	0.0

TABLE 7. Insect Taxa Rankings Collected from Big Sagebrush on B-C Cribs, Redox Pond and Control Study Areas

Study Location	1974	1975
	--R _s Value--	
B-C Cribs versus Redox Pond	0.96	0.92
B-C Cribs versus Control	0.98	0.95
Redox Pond versus Control	0.98	0.78

TABLE 8. Hemiptera Families Collected from Big Sagebrush

Family	Common Name	Total Number Collected
Coreidae	Leaf-footed bug	1
Lygaeidae	Seed bug	18
Miridae	Plant bug	531
Nabidae	Damsel bug	33
Pentatomidae	Stink bug	3
Pyrrhocoridae	Red bug	2
Scutelleridae	Shield-back bug	1

group and inhabit trees, shrubs, flowers, and crop plants. There are many economically important pest species within the leafhopper family but none have been reported as serious pests of sagebrush.

TABLE 9. Homoptera Families Associated with Sagebrush

Family	Common Name	Total Number Collected
Aphididae	aphid	84
Cicadellidae	leafhopper	412
Dictyopharidae	plant hopper	4
Ortheziidae	coccids	14
Psyllidae	plant lice	34

COMPARISON OF SHRUB INVERTEBRATE FAUNA

A comparison of the relative abundance of invertebrates inhabiting sagebrush, rabbitbrush and hopsage plants for both study years combined is shown in Table 10. Hemiptera and Homoptera were the two groups most commonly collected from sagebrush. Homoptera, Orthoptera and Araneida (spiders) were the most frequent taxa collected from rabbitbrush and Orthoptera, Araneida, and Coleoptera were the common inhabitants collected from hopsage.

The invertebrate fauna inhabiting sagebrush and rabbitbrush were found to be equivalent in terms of taxonomic rankings during both study years ($\alpha = 0.01$). Comparisons of the sagebrush-hopsage and rabbitbrush-hopsage fauna showed significant differences in the relative rankings of taxa during all study years ($\alpha = 0.01$). This analysis of the taxonomic rankings for invertebrates inhabiting sagebrush, hopsage, and rabbitbrush is shown in Table 11.

TABLE 10. Relative Abundance of Insect Taxa Collected from Sagebrush, Rabbitbrush and Hopsage

Taxa	Sagebrush	Rabbitbrush	Hopsage
	-----%		
Hemiptera (true bugs)	44.6	11.7	6.4
Homoptera (bugs)	33.0	31.2	6.1
Orthoptera (grasshoppers)	7.3	24.0	21.8
Araneida (spiders)	6.5	20.7	21.3
Hymenoptera (ants, bees, wasps)	4.2	2.9	5.8
Coleoptera (beetles)	1.7	1.9	27.4
Lepidoptera (butterflies, moths)	1.2	6.1	5.3
Diptera (flies)	1.1	1.2	5.3
Neuroptera (lace wings)	0.3	0.3	0.3
Other	0.1	0.1	0.3

TABLE 11. Insect Taxa Rankings from Sagebrush, Rabbitbrush and Hopsage

Shrub	1974	1975
Sagebrush versus Rabbitbrush	0.91	0.85
Sagebrush versus Hopsage	0.39*	0.52*
Rabbitbrush versus Hopsage	0.52*	0.67*

*Significantly different ($\alpha = 0.01$)

DISCUSSION

Shrubs help stabilize landscapes, provide food and cover for wildlife and provide some forage for cattle and horses (Hewitt et al., 1974). Information about insects on native western rangeland shrubs is fragmentary and meager. Essig's (1934) Insects of Western North America is perhaps the best single source of information, but much of it is dated. This study assesses the insect populations associated with three major shrub species: big sagebrush, rabbitbrush and hopsage.

SAGEBRUSH

Sagebrush covers approximately 667,000,000 ha of western lands (Beetle, 1960). It is a dominant shrub on three DOE lands: the Hanford Site (Rogers and Rickard, 1977), Nevada Test Site (O'Farrell and Emery, 1976) and the Idaho National Engineering Laboratory (McBride et al., 1978) and is therefore an important ecological component of DOE-managed lands. Insect groups known to be important consumers of sagebrush include the defoliators, leaf beetles, grasshoppers and darkling beetles.

Aroga websteri

Defoliating insects are the most serious insect threat to sagebrush plants. Aroga websteri (Lepidoptera:Gelechiidae) has probably been the most destructive defoliator of sagebrush on western rangelands. Serious blights have occurred in Nevada, Oregon and California and about 15,000,000 ha of rangelands were reported to have been defoliated in Washington (Hall, 1964). It apparently has not been a serious pest at Hanford.

Leaf Beetles

The leaf beetles (Coleoptera:Chrysomelidae) are also sagebrush consumers. Pringle (1960) reported that these insects killed up to 80% of the sagebrush in a 3,000-acre area near Kamloops, British Columbia. Leaf beetles were found on sagebrush at Hanford during this study. They occurred in fairly low numbers, however, and are not currently regarded as a threat to 200 Area sagebrush stands.

Grasshoppers

The migratory grasshopper (Melanoplus sanguinipes) was reported to have defoliated thousands of acres of sagebrush in Montana during 1939 (Hewitt et al., 1974). Allred (1941) reported that two grasshopper species, Aulocara elliotii and Ageneotettix deorum, destroyed 50% of the sagebrush plants in the Little Powder River drainage of Wyoming and Montana. All three of these grasshopper species occur here at Hanford, although Aulocara elliotii occurs

in low numbers. It will probably not become an important consumer of sagebrush as long as the vegetation complex remains unchanged. A detailed analysis of the food habits of 200 Area plateau grasshoppers revealed neither the migratory grasshopper nor Ageneotettix deorum to be a major sagebrush feeder. Two other grasshopper species (Melanoplus cinereus and Oedaleonotus enigma) were found to select sagebrush (Sheldon and Rogers, 1978), and any increase in their population densities could seriously impact sagebrush stands.

Darkling Beetles

Sagebrush was identified as a major component in the diet of two darkling beetle species (Rogers et al., 1978). Eleodes humeralis ingested sagebrush with a frequency of 51% and Eusattus muricatus with a frequency of 50%. Eleodes humeralis occurs in abundance only in shrub-dominated areas and has been observed feeding on the foliage. The feeding habits of Eusattus are unclear. It may feed on the foliage but more probably it ingests sagebrush material from the litter layer.

Galls

Sagebrush plants at the Hanford Site and elsewhere are commonly infested with galls. The galls at Hanford are induced by the reproductive habits of flies (Cecidomyiidae and Tephritidae) and wasps (Torymidae). There is no evidence that these galls hamper the survival of the sagebrush plants (Hewitt et al., 1974).

RABBITBRUSH

Little data has been published on the extent of insect feeding on rabbitbrush. Larvae of Synnoma lynosyrana (Lepidoptera:Tortricidae) have been reported to have killed rabbitbrush in areas of Idaho and Montana (Pletsch, 1938). Large areas of rabbitbrush in New Mexico were also killed by this species (Hewitt, 1974). Larvae stripped the leaves from large plants and ate young plants down to ground level.

Dietary analysis revealed rabbitbrush to be one of only two shrubs important as plant foods for Hanford darkling beetles, occurring with a frequency of 36% in the diet of Eleodes humeralis (Rogers et al., 1978). The grasshopper species Hesperotettix viridis was found to feed almost exclusively on rabbitbrush at the Hanford Site (Sheldon and Rogers, 1978).

HOPSAGE

Although hopsage occurs throughout most of the foothills and desert valley regions of the western United States, almost nothing is known about associated insect consumers. Information obtained from this study indicates that the insect taxa associated with hopsage were different from the taxa associated with either sagebrush or rabbitbrush. The limited distribution of communities dominated by hopsage on the 200 Area plateau makes the need for information concerning associated insect inhabitants less critical than for those associated with sagebrush and rabbitbrush stands.

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APPENDIX A
SHRUB-INHABITING INSECT DATA

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic1	Shrub2	Invertebrate Taxa3	Lifestage4	Total Number	Length (cm)	Identification Number5
0302	WOL	1212	5	2				5	ARTR					
0302	WOL	10874	2					5	ARTR	ARAN	00	5		
0303	WOL	10874	2					5	ARTR	ARAN	00	4		
0301	WOL	10874	2					5	ARTR	ARAN	00	5		
0302	WOL	10874	1					5	ARTR	ARAN	00	12		
0303	WOL	10874	1					5	ARTR	ARAN	00	18		
0301	WOL	10874	1					5	ARTR	ARAN	00	12		
0301	WOL	20574	4						ARTR	ARAN	10	1		
0301	LE	3028574	3					5	ARTR	ARAN	10	1	2.5	74013
0302	WOL	20574	2						ARTR	ARAN	10	1		
0302	UK	3029574	1					5	ARTR	ARAN	00	2		
3001	LE	3021075	1						ARTR	ARAN	10	3	1.8	
3001	LE	3021075	1						ARTR	ARAN	10	1	1.2	
0302	LE	3021075	2						ARTR	ARAN	10	1	2.8	
0302	LE	3021075	2						ARTR	ARAN	10	1	4.7	
0301	LE	3021075	2						ARTR	ARAN	10	1	2.0	
0301	LE	3021075	2						ARTR	ARAN	10	1	4.5	
0303	LE	3021075	2						ARTR	ARAN	10	1	2.2	
0303	LE	3021075	2						ARTR	ARAN	10	2	3.7	
3002	LE	3021075	1						ARTR	ARAN	10	2	5.0	
0303	LE	3021075	1						ARTR	ARAN	10	1	4.6	
0303	WOL	303574	4					5	ARTR	ARAN	10	1		
0303	UK	303574	3					5	ARTR	ARAN	10	1		
0303	WOL	303574	2						ARTR	ARAN	10	2		
0303	WOL	303574	1						ARTR	ARAN	10	2		
0301	LE	4040774	2					5	ARTR	ARAN	00	10		
0302	WOL	40774	2					5	ARTR	ARAN	00	3		
0303	WOL	40774	2					5	ARTR	ARAN	10	11		
0303	WOL	40774	1					5	ARTR	ARAN	00	7		
0301	WOL	40774	1					5	ARTR	ARAN	00	7		
0302	UK	40774	1					5	ARTR	ARAN	00	6		
0302	LE	5050675	2						ARTR	ARAN	10	1	1.6	
0302	LE	5050974	2						ARTR	ARAN	00	2		
0301	LE	5050974	2						ARTR	ARAN	00	1		
0303	LE	5050974	2						ARTR	ARAN	00	4		
0303	LE	5050974	2						ARTR	ARAN	40	2		
0302	LE	5050974	1						ARTR	ARAN	00	2		
0301	LE	5050974	1						ARTR	ARAN	00	4		
0303	LE	5050974	1						ARTR	ARAN	40	1		
0303	LE	5051274	1						ARTR	ARAN	10	1	2.0	74497
0303	LE	5060575	1						ARTR	ARAN	10	2	3.2	
0303	LE	5060575	1						ARTR	ARAN	10	1	2.8	
0303	LE	5060575	1						ARTR	ARAN	10	1	4.5	
0301	LE	5060575	1						ARTR	ARAN	10	1	5.0	
0301	LE	5060575	1						ARTR	ARAN	10	1	3.5	
0302	LE	5060575	1						ARTR	ARAN	40	3	3.2	
0301	LE	5060575	2						ARTR	ARAN	40	3	3.0	
0301	UK	5060674	4					5	ARTR	ARAN	40	4		
0301	WOL	5060674	3					5	ARTR	ARAN	10	2		
0301	WOL	5060674	2						ARTR	ARAN	10	1		
0301	UK	5060674	1					5	ARTR	ARAN	00	3		
0303	UK	5060674	1					5	ARTR	ARAN	10	1		
0302	WOL	5060674	2						ARTR	ARAN	10	5		
0303	WOL	5060674	2					5	ARTR	ARAN	10	1		
0301	LE	110375	1						ARTR	ARAN	10	1	2.6	
0302	LE	1130375	2						ARTR	ARAN	10	1	4.2	
0302	LE	1130375	2						ARTR	ARAN	10	2	2.4	
0302	NE	1130675	1						ARTR	ARAN	10	4	2.5	
0302	NE	1130675	1				1		ARTR	ARAN	10	1	1.0	
0302	NE	1130675	1						ARTR	ARAN	10	1	3.0	
0303	NE	1130675	1						ARTR	ARAN	10	3	3.1	
0301	NE	1130675	1						ARTR	ARAN	10	3	2.5	
0302	NE	1130675	2				1		ARTR	ARAN	10	1	5.8	

Data Type	Site	Initials	Day	Month	Year	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0302	NE	130675	2				2	ARTR	ARAN	10	4	1.9	
0302	NE	130675	2				2	ARTR	ARAN	10	2	2.5	
0303	NE	130675	2					ARTD	ARAN	10	4	2.3	
0301	NE	130675	2					ARTR	ARAN	10	1	4.4	
0301	NE	130675	2					ARTR	ARAN	10	1	6.5	
0301	NE	130675	2					ARTR	ARAN	10	4	3.1	
0301	NE	130675	2					ARTR	ARAN	10	1	2.4	
0303	NE	130675	1					ARTR	ARAN	10	4	1.9	
0302	WOL	130674	2				5	ARTR	ARAN	00	1		
0303	WOL	130674	2				5	ARTR	ARAN	00	3		
0303	WOL	130674	1				5	ARTD	ARAN	00	5		
0301	WOL	130674	1				5	ARTR	ARAN	00	9		
0302	WOL	130674	1				5	ARTR	ARAN	00	5		
0303	LE	151074	2					ARTR	ARAN	10	1	5.0	
0303	LE	151074	2					ARTD	ARAN	10	1	2.8	
0302	LE	151074	1					ARTD	ARAN	10	1	5.5	
0303	LE	151074	1					ARTD	ARAN	10	3	6.3	
0302	WOL	180774	2				5	ARTD	ARAN	00	5		
0303	WOL	180774	2				5	ARTD	ARAN	00	22		
0303	WOL	180774	1				5	ARTD	ARAN	00	3		
0302	WOL	180774	1				5	ARTR	ARAN	00	9		
0301	WOL	180774	1				5	ARTR	ARAN	00	2		
0303	WOL	180774	2				5	ARTD	ARAN	00	16		
0302	WOL	210674	2					ARTR	ARAN	10	11		
0301	WOL	210674	1					ARTD	ARAN	10	20		
0302	WOL	210674	1					ARTR	ARAN	10	2		
0301	WOL	210674	2				5	ARTR	ARAN	10	11		
0302	JKS	210775	2					ARTD	ARAN	10	2	4.4	
0303	LE	210775	2					ARTR	ARAN	10	2	3.0	
0302	LE	210775	1					ARTD	ARAN	10	1	2.5	
0302	JKS	210775	2					ARTD	ARAN	10	3	3.2	
0302	LE	210775	1					ARTR	ARAN	10	1	4.4	
0301	LE	210775	1					ARTD	ARAN	10	1	3.0	
0301	LE	210775	1					ARTR	ARAN	10	1	4.3	
0303	LE	210775	1					ARTD	ARAN	10	1	4.2	
0302	JKS	210775	2					ARTR	ARAN	10	2	4.2	
0301	LE	210775	2					ARTR	ARAN	10	4	3.2	
0302	JKS	210775	2					ARTR	ARAN	10	2	3.6	
0303	LE	210775	2					ARTD	ARAN	10	2	4.4	
0302	JKS	210775	2					ARTR	ARAN	10	2	2.7	
0302	JKS	210775	2					ARTD	ARAN	10	2	4.7	
0302	LE	2270875	2					ARTD	ARAN	10	3	2.2	
0302	LE	2270875	2					ARTD	ARAN	10	1	1.3	
0302	LE	2270875	2					ARTD	ARAN	10	1	1.6	
0302	LE	2270875	1					ARTR	ARAN	10	1	4.3	
0303	LE	2270875	2					ARTD	ARAN	10	1	3.5	
0302	LE	2270875	2					ARTR	ARAN	10	3	4.0	
0303	LE	2270875	2					ARTD	ARAN	10	1	5.0	
0303	LE	2270875	2					ARTR	ARAN	10	3	4.0	
0303	LE	2270875	1					ARTR	ARAN	10	1	4.0	
0301	LE	2270875	1					ARTR	ARAN	10	1	3.5	
0301	LE	2270875	1					ARTD	ARAN	10	1	2.3	
0301	LE	2270875	1					ARTR	ARAN	10	1	2.6	
0301	LE	2270875	2					ARTR	ARAN	10	1	2.8	
0301	LE	2270875	2					ARTR	ARAN	10	2	3.2	
0302	LE	2270875	1					ARTD	ARAN	10	1	3.0	
0302	LE	2270875	1					ARTR	ARAN	10	2	2.5	
0303	LE	2270974	2					ARTD	ARAN	10	1	2.0	
0301	LE	2270974	2				5	ARTD	ARAN	10	1	5.0	74302
0301	LE	2270974	2				5	ARTR	ARAN	10	1	1.3	74301
0302	LE	221075	1					ARTR	ARANSALT	10	1	3.3	
0302	LE	221075	1					ARTD	ARANSALT	10	5	5.0	
0303	LE	221075	1					ARTR	ARANSALT	10	1	3.6	
0301	LE	221075	2					ARTR	ARANSALT	10	1	3.7	
0301	LE	221075	1					ARTR	ARANSALT	10	1	2.6	
0303	LE	221075	2					ARTR	ARANSALT	10	5	3.8	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total Number	Length (cm)	Identification
0303	LE	021075	2					ARTR		ARANSALT		10	4	2.4	
0303	LE	060575	2					ARTR		ARANSALT		10	1	4.5	
0302	LE	060575	1					ARTR		ARANSALT		10	1	4.9	
0303	LE	151074	1					ARTR		ARANSALT		10	2	3.5	
0302	LE	151074	2				1	ARTR		ARANSALT		10	1	4.1	
0302	LE	151074	1					ARTR		ARANSALT		10	1	4.4	
0302	LE	210775	1					ARTR		ARANSALT		10	2	3.0	
0302	LE	210775	1					ARTR		ARANSALT		10	1	2.0	
0303	LE	210775	2					ARTR		ARANSALT		10	2	2.5	
0303	LE	210775	2					ARTR		ARANSALT		10	1	1.6	
0302	LE	270875	2					ARTR		ARANSALT		10	1	3.0	
0303	LE	270875	2					ARTR		ARANSALT		10	1	2.6	
0303	LE	270875	1					ARTR		ARANSALT		10	1	2.5	
0303	LE	270875	1					ARTR		ARANSALT		10	1	3.8	
0302	LE	270875	1					ARTR		ARANSALT		10	2	4.0	
0303	LE	270875	1					ARTR		ARANSALT		10	1	4.5	
0301	LE	270974	1					ARTR		ARANSALT		10	2	3.5	73301
0303	LE	270974	2					ARTR		ARANSALT		10	1	4.0	
0302	LE	270974	1					ARTR		ARANSALT		10	1	2.1	
0303	LE	050974	2					ARTR		ARANTHOM		10	1		
0303	LE	151074	1					ARTR		ARANTHOM		10	2	3.0	
0301	LE	151074	2					ARTR		ARANTHOM		10	2	2.0	
0302	LE	151074	2				1	ARTR		ARANTHOM		10	1	2.7	
0303	LE	151074	2					ARTR		ARANTHOM		10	1	2.6	
0303	LE	270974	2					ARTR		ARANTHOM		10	4	4.2	
0303	LE	270974	2					ARTR		ARANTHOM		10	1	5.1	73302
0302	LE	270974	2					ARTR		ARANTHOM		10	1	4.2	74302
0302	LE	270974	1					ARTR		ARANTHOM		10	1	3.5	
0301	WDL	020574	4					ARTR		COLECARA		10	3		
0303	WDL	030574	2					ARTR		COLECARA		10	2		
0301	LE	021075	2					ARTR		COLECHRY		10	1	3.5	
0301	LE	021075	1					ARTR		COLECHRY		10	1	4.0	
0302	LE	050675	2					ARTR		COLECHRY		10	1	3.8	
0303	LE	050974	1					ARTR		COLECHRY		10	1		
0301	LE	060575	1					ARTR		COLECHRY		10	1	3.5	
0302	LE	210775	2					ARTR		COLECHRY		10	1	1.3	
0303	LE	270875	2					ARTR		COLECHRY		10	1	3.7	
0303	WDL	010674	1					ARTR		COLECLER		10	1		
0302	WDL	010674	2					ARTR		COLECLER		10	1		
0302	WDL	040774	2					ARTR		COLECLER		10	1		
0302	LE	050974	1					ARTR		COLECLER		10	1		
0303	WDL	150774	2					ARTR		COLECLER		10	1		
0302	WDL	180774	1					ARTR		COLECLER		10	1		
0301	WDL	210674	1					ARTR		COLECLER		10	1		
0302	LE	210775	1					ARTR		COLECLER		10	1	2.8	
0303	LE	270875	1					ARTR		COLECLER		10	1	3.3	
0302	WDL	010674	2				1	ARTR		COLECOCC		10	1		
0302	WDL	020574	2					ARTR		COLECOCC		40	1		
0303	WDL	030574	2					ARTR		COLECOCC		40	1		
0303	WDL	030574	1					ARTR		COLECOCC		10	1		
0301	LE	040774	2				1	ARTR		COLECOCC		10	1		
0301	LE	060575	2					ARTR		COLECOCC		10	1	2.2	
0303	WDL	130874	2				1	ARTR		COLECOCC		10	1		
0302	WDL	130874	1				1	ARTR		COLECOCC		10	1		
0303	WDL	180774	2				1	ARTR		COLECOCC		10	1		
0302	WDL	210674	1					ARTR		COLECOCC		10	1		
0303	LE	210775	2					ARTR		COLECOCC		10	1	2.2	
0303	LE	210775	1					ARTR		COLECOCC		10	1	11.0	
0303	LE	270875	2					ARTR		COLECOCC		10	1	2.7	
0301	LE	270974	1					ARTR		COLECOCC		10	1	2.3	
0303	LE	050974	1					ARTR		COLECOCCHY		10	2		
0301	LE	050974	1					ARTR		COLECOCCHY		10	1		
0301	WDL	020574	4					ARTR		COLECOCC		10	1		
0302	WDL	020574	1				1	ARTR		COLECOCC		10	1		
0303	LE	021075	2					ARTR		COLECOCC		10	1	2.8	
0303	WDL	030574	1					ARTR		COLECOCC		10	1		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0303	WDL	030574	2					ARTR		COLECURC	10	5		
0303	LEP	060575	1					ARTR		COLECURC	10	2	2.9	
0303	LEP	060575	1					ARTR		COLECURC	10	2	3.2	
0301	LEP	060575	1					ARTR		COLECURC	10	2	3.2	
0303	LEP	060575	1					ARTR		COLECURC	10	2	3.7	
0302	LEP	151074	1					ARTR		COLECURC	10	1	2.2	
0302	LEP	151074	1					ARTR		COLECURC	10	1	2.6	
0302	UK	210775	2					ARTR		COLECURC	10	1	3.1	
0302	LEP	270974	2					ARTR		COLECURC	10	1	2.6	
0303	LEP	110375	1					ARTR		COLECURCCE AR	10	14	2.8	
0301	LEP	110375	1					ARTR		COLECURCCE AR	10	1	3.2	
0303	LEP	110375	2					ARTR		COLECURCCE AR	10	11	2.8	
0303	LEP	110375	2					ARTR		COLECURCST LA	10	7	4.4	
0303	LEP	110375	2					ARTR		COLECURCST LA	10	5	4.0	
0302	LEP	110375	1					ARTR		COLECURCST LA	10	2	5.2	
0301	LEP	110375	1					ARTR		COLECURCST LA	10	1	4.8	
0303	LEP	110375	1					ARTR		COLECURCST LA	10	1	5.5	
0302	LEP	130375	2					ARTR		COLECURCST LA	10	1	4.7	
0302	LEP	130375	2					ARTR		COLECURCST LA	10	1	5.2	
0302	UK	060674	1					5 ARTR		COLEDASY	10	1		
0301	UK	060674	1					5 ARTR		COLEDASY	10	1		
0301	WDL	020574	4					8 ARTR		COLEDERM	10	1		
0303	WDL	130674	1					8 ARTR		COLEDERM	10	1		
0301	WDL	020574	4					1 ARTR		COLEMELO	10	2		
0303	WDL	130674	1					1 ARTR		COLEMELO	10	1		
0303	LEP	270875	1					ARTR		COLEMELO	10	1	9.0	
0301	WDL	020574	2					5 ARTR		COLEMELY	10	1		
0302	LEP	050675	2					ARTR		COLEMELY	10	2	3.0	
0301	LEP	060575	2					ARTR		COLEMELY	10	1	3.0	
0301	LEP	060575	1					ARTR		COLEMELY	10	6	2.9	
0303	LEP	110375	2					ARTR		COLEMELY	10	1	3.1	
0301	LEP	060575	1					ARTR		COLEMELYAN HO	10	1	4.2	
0303	NE	130675	2					ARTR		COLENTI	10	1	3.9	
0303	WDL	0310874	2					8 ARTR		COLESTAP	10	1		
0303	LEP	051274	2					ARTR		DIPT	10	1	2.0	74798
0301		060575	1					ARTR		DIPT	10	1	1.0	
0303	LEP	060575	2					ARTR		DIPT	10	1	1.5	
0301	LEP	060575	2					ARTR		DIPT	10	1	1.5	
0301	LEP	060575	2					ARTR		DIPT	10	1	2.4	
0301	WDL	020574	2					3 ARTR		DIPTAGRO	10	2		
0301	WDL	020574	1					1 ARTR		DIPTAGRO	10	1		
0302	WDL	020574	4					1 ARTR		DIPTAGRO	10	1		
0301	WDL	020574	4					3 ARTR		DIPTAGRO	10	1		
0302	UK	020574	1					1 ARTR		DIPTAGRO	10	1		
0303	WDL	030574	4					3 ARTR		DIPTAGRO	10	1		
0303	WDL	030574	1					ARTR		DIPTAGRO	10	1		
0303	WDL	030574	2					ARTR		DIPTAGRO	10	3		
0302	WDL	10874	2					3 ARTR		DIPTBOMB	10	1		
0303	WDL	040774	2					3 ARTR		DIPTBOMB	10	1		
0302	WDL	130674	1					3 ARTR		DIPTBOMB	10	2		
0303	WDL	130674	2					3 ARTR		DIPTBOMB	10	1		
0303	NE	130675	1					ARTR		DIPTCHAM	10	1	1.7	
0301	WDL	130674	1					3 ARTR		DIPTCHAO	10	3		
0303	LEP	021075	1					ARTR		DIPTCHIR	10	1	1.6	
0303	WDL	030574	2					ARTR		DIPTCHIR	10	1		
0301	UK	060674	1					3 ARTR		DIPTCHIR	10	2		
0302	WDL	180774	1					3 ARTR		DIPTCHIR	10	1		
0302	WDL	040774	2					3 ARTR		DIPTCHLO	10	1		
0302	NE	130675	2					2 ARTR		DIPTCHLOME	10	1	4.2	
0303	WDL	060674	2					3 ARTR		DIPTCOLE	10	1		
0303	WDL	030574	2					ARTR		DIPTERHY	10	2		
0303	LEP	270875	1					ARTR		DIPTERHY	10	2	1.6	
0301	LEP	210775	1					ARTR		DIPTMUSC	10	1	6.6	
0302	WDL	180774	2					3 ARTR		DIPTSGEN	10	1		
0302	WDL	210674	2					ARTR		DIPTSGEN	10	1		
0302	WDL	210674	1					ARTR		DIPTSGEN	10	2		

Data Type	Site	Initials	Day	Month	Year	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0301	WDL	210674	1				ARTR		DIPTSCEN	10	1		
0301	NEA	130675	2				ARTR		DIPTSCENSC	10	1	3.0	
0301	LEP	040774	2				ARTR		DIPTSCIA	10	1		
0301	JKS	060674	1				3 ARTR		DIPTSCIA	10	1		
0302	WDL	060674	2				ARTR		DIPTSCIA	10	1		
0301	WDL	210674	1				ARTR		DIPTSCIA	10	4		
0303	WDL	210674	1				3 ARTR		DIPTSCIA	10	2		
0302	LEP	021075	2				ARTR		DIPTSIMU	10	8	2.5	
0303	LEP	021075	2				ARTR		DIPTSIMU	10	2	3.0	
0302	LEP	021075	2				ARTR		DIPTTACH	10	1	6.1	
0303	WDL	030574	1				ARTR		DIPTTACH	40	1		
0303	WDL	040774	2				3 ARTR		DIPTTACH	10	1		
0301	JKS	060674	4				3 ARTR		DIPTTACH	10	1		
0301	NEA	130675	1				ARTR		DIPTTACH	10	1	5.0	
0303	WDL	180774	1				3 ARTR		DIPTTACH	10	1		
0303	WDL	180774	2				3 ARTR		DIPTTACH	10	1		
0301	WDL	210674	1				ARTR		DIPTTACH	10	1		
0303	WDL	030574	2				ARTR		DIPTTEPH	10	1		
0303	WDL	030574	4				1 ARTR		DIPTTEPH	10	1		
0301	LEP	060675	2				ARTR		DIPTTEPH	10	1	2.7	
0303	LEP	060675	2				ARTR		DIPTTEPH	10	1	3.3	
0301	LEP	060675	1				ARTR		DIPTTEPH	10	1	2.8	
0301	WDL	060674	2				ARTR		DIPTTEPH	10	2		
0303	LEP	270974	2				ARTR		DIPTTHER	10	1	10.7	
0301	WDL	020574	4				ARTR		DIPTTIPU	10	2		
0303	WDL	030674	4				1 ARTR		DIPTTIPU	10	1		
0303	LEP	060675	2				ARTR		DIPTTIPU	10	1	15.5	
0303	LEP	060675	2				ARTR		DIPTTIPU	10	1	14.0	
0302	LEP	270875	1				ARTR		HEMICORE	40	1	1.8	
0301	LEP	021075	2				ARTR		HEMILYGA	10	1	3.5	
0302	LEP	021075	2				ARTR		HEMILYGA	10	4	3.7	
0303	LEP	021075	1				ARTR		HEMILYGA	10	1	2.3	
0302	LEP	021075	2				ARTR		HEMILYGA	10	1	3.0	
0303	LEP	021075	1				ARTR		HEMILYGA	10	1	3.2	
0301	LEP	021075	1				ARTR		HEMILYGA	10	1	3.0	
0302	LEP	050974	1				ARTR		HEMILYGA	10	3		
0301	LEP	050974	1				ARTR		HEMILYGA	10	6		
0303	LEP	050974	1				ARTR		HEMILYGA	10	7		
0303	LEP	050974	2				ARTR		HEMILYGA	10	4		
0301	LEP	050974	2				ARTR		HEMILYGA	10	1		
0301	NEA	130675	1				ARTR		HEMILYGA	40	1	3.0	
0301	NEA	130675	1				ARTR		HEMILYGA	40	3	1.1	
0301	NEA	130675	1				ARTR		HEMILYGA	40	1	2.0	
0303	NEA	130675	1				ARTR		HEMILYGA	40	1	1.9	
0301	NEA	130675	1				ARTR		HEMILYGA	10	1	3.5	
0303	LEP	151074	1				ARTR		HEMILYGA	10	1	11.3	
0303	LEP	151074	2				ARTR		HEMILYGA	10	4	3.5	
0302	LEP	151074	1				ARTR		HEMILYGA	10	1	3.4	
0302	LEP	151074	2			1	ARTR		HEMILYGA	10	1	3.2	
0302	LEP	151074	2			1	ARTR		HEMILYGA	10	1	10.0	
0301	LEP	151074	2				ARTR		HEMILYGA	10	1	3.5	74318
0303	LEP	270875	2				ARTR		HEMILYGA	10	1	3.1	
0303	LEP	270974	2				ARTR		HEMILYGA	10	3	3.2	
0301	LEP	270974	1				2 ARTR		HEMILYGA	10	2	4.0	
0301	LEP	270974	2				2 ARTR		HEMILYGA	10	1	2.2	
0302	LEP	270974	1				ARTR		HEMILYGA	10	6	3.0	
0302	LEP	021075	1				ARTR		HEMILYGALYKA	10	1	10.5	
0303	WDL	010874	1				2 ARTR		HEMIMIRI	10	1		
0301	WDL	010874	1				2 ARTR		HEMIMIRI	10	21		
0302	WDL	010874	2				2 ARTR		HEMIMIRI	10	1		
0303	WDL	010874	2				2 ARTR		HEMIMIRI	40	2		
0303	WDL	010874	2				2 ARTR		HEMIMIRI	10	1		
0301	WDL	010874	2				2 ARTR		HEMIMIRI	10	21		
0302	WDL	010874	1				2 ARTR		HEMIMIRI	10	2		
0301	WDL	020574	4				2 ARTR		HEMIMIRI	10	2		
0301	WDL	020574	4				2 ARTR		HEMIMIRI	40	26		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0301	WDL	020574	4					2	ARTR	HEMIMIRI	41	54		
0301	WDL	020574	4					2	ARTR	HEMIMIRI	42	365		
0301	WDL	020574	4						ARTR	HEMIMIRI	10	11		
0301	WDL	020574	4						ARTR	HEMIMIRI	41	6		
0301	WDL	020574	4						ARTR	HEMIMIRI	43	34		
0301	WDL	020574	4						ARTR	HEMIMIRI	42	503		
0302	WDL	020574	4						ARTR	HEMIMIRI	10	9		
0301	LEH	020574	3					2	ARTR	HEMIMIRI	40	9	2.0	74011
0301	LEH	020574	3					2	ARTR	HEMIMIRI	40	89	2.3	74008
0301	LEH	020574	3					2	ARTR	HEMIMIRI	10	2	3.2	74010
0302	WDL	020574	4						ARTR	HEMIMIRI	43	182		
0301	WDL	020574	2					2	ARTR	HEMIMIRI	10	2		
0301	WDL	020574	2					2	ARTR	HEMIMIRI	40	699		
0301	WDL	020574	1					2	ARTR	HEMIMIRI	10	6		
0301	WDL	020574	1					2	ARTR	HEMIMIRI	43	28		
0301	WDL	020574	1					2	ARTR	HEMIMIRI	42	250		
0301	WDL	020574	1					2	ARTR	HEMIMIRI	41	26		
0302	WDL	020574	2						ARTR	HEMIMIRI	42	175		
0302	WDL	020574	2						ARTR	HEMIMIRI	10	7		
0302	WDL	020574	2						ARTR	HEMIMIRI	43	13		
0302	UKS	020674	1					2	ARTR	HEMIMIRI	10	4		
0302	UKS	020674	1					2	ARTR	HEMIMIRI	42	244		
0303	LEH	021075	1						ARTR	HEMIMIRI	10	1	5.0	
0301	LEH	021075	1						ARTR	HEMIMIRI	10	1	2.4	
0302	LEH	021075	2						ARTR	HEMIMIRI	10	1	3.3	
0303	WDL	030574	4					2	ARTR	HEMIMIRI	10	25		
0303	WDL	030574	4					2	ARTR	HEMIMIRI	41	34		
0303	WDL	030574	4					2	ARTR	HEMIMIRI	43	46		
0303	WDL	030574	4					2	ARTR	HEMIMIRI	42	345		
0303	WDL	030574	1						ARTR	HEMIMIRI	42	243		
0303	WDL	030574	1						ARTR	HEMIMIRI	10	19		
0303	WDL	030574	1						ARTR	HEMIMIRI	43	34		
0303	WDL	030574	2						ARTR	HEMIMIRI	41	27		
0303	WDL	030574	2						ARTR	HEMIMIRI	42	332		
0303	WDL	030574	2						ARTR	HEMIMIRI	43	34		
0303	WDL	030574	2						ARTR	HEMIMIRI	10	25		
0303	UKS	030574	3					2	ARTR	HEMIMIRI	10	7		
0303	UKS	030574	3					2	ARTR	HEMIMIRI	40	145		
0303	WDL	040774	1					2	ARTR	HEMIMIRI	10	2		
0302	LEH	050675	2						ARTR	HEMIMIRI	40	3	2.4	
0302	LEH	050675	2						ARTR	HEMIMIRI	40	16	1.6	
0302	LEH	050675	2						ARTR	HEMIMIRI	40	13	1.0	
0301	LEH	050974	1						ARTR	HEMIMIRI	10	1		
0302	LEH	051274	1						ARTR	HEMIMIRI	10	1	5.1	
0303	LEH	060575	2						ARTR	HEMIMIRI	10	1	3.7	
0303	LEH	060575	2						ARTR	HEMIMIRI	40	10	2.0	
0303	LEH	060575	2						ARTR	HEMIMIRI	40	75	1.5	
0303	LEH	060575	2						ARTR	HEMIMIRI	40	23	1.2	
0301	LEH	060575	2						ARTR	HEMIMIRI	40	142	1.3	
0301	LEH	060575	2						ARTR	HEMIMIRI	40	32	1.8	
0302	LEH	060575	1						ARTR	HEMIMIRI	40	25	1.2	
0302	LEH	060575	1						ARTR	HEMIMIRI	40	7	1.5	
0302	LEH	060575	1						ARTR	HEMIMIRI	40	1	2.4	
0302	LEH	060575	1						ARTR	HEMIMIRI	40	13	1.7	
0303	LEH	060575	1						ARTR	HEMIMIRI	40	24	2.3	
0303	LEH	060575	1						ARTR	HEMIMIRI	40	39	1.5	
0301	LEH	060575	1						ARTR	HEMIMIRI	40	15	2.2	
0301	LEH	060575	1						ARTR	HEMIMIRI	40	27	1.6	
0301	LEH	060575	1						ARTR	HEMIMIRI	40	32	1.2	
0301	WDL	060674	2						ARTR	HEMIMIRI	10	29		
0301	UKS	060674	4					2	ARTR	HEMIMIRI	10	13		
0301	UKS	060674	4					2	ARTR	HEMIMIRI	42	1		
0301	WDL	060674	3					2	ARTR	HEMIMIRI	43	14		
0301	WDL	060674	3					2	ARTR	HEMIMIRI	10	31		
0301	UKS	060674	1					2	ARTR	HEMIMIRI	10	59		
0303	UKS	060674	1					2	ARTR	HEMIMIRI	43	2		

Data Type		Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total	Number	Length (cm)	Identification
0303	JXS0	60674	1						2	ARTR	HEMIMIRI		10	2			
0302	JKS0	60674	1						2	ARTR	HEMIMIRI		10	2			
0302	WDL0	60674	2							ARTR	HEMIMIRI		10	8			
0302	WDL0	60674	2							ARTR	HEMIMIRI		43	4			
0303	WDL0	60674	2						2	ARTR	HEMIMIRI		10	14			
0303	WDL0	60674	2						2	ARTR	HEMIMIRI		40	4			
0303	LER1	10375	2							ARTR	HEMIMIRI		10	1		3.2	
0303	LER1	10375	2							ARTR	HEMIMIRI		10	1		4.6	
0301	LER1	130375	2							ARTR	HEMIMIRI		10	1		3.0	
0303	NEW1	130675	1							ARTR	HEMIMIRI		10	1		4.1	
0303	NEW1	130675	1							ARTR	HEMIMIRI		10	3		2.0	
0301	NEW1	130675	1							ARTR	HEMIMIRI		10	1		4.3	
0301	NEW1	130675	1							ARTR	HEMIMIRI		10	1		2.3	
0302	NEW1	130675	1					1		ARTR	HEMIMIRI		10	1		2.7	
0302	NEW1	130675	1					1		ARTR	HEMIMIRI		10	5		2.0	
0302	NEW1	130675	1					1		ARTR	HEMIMIRI		40	1		2.0	
0301	NEW1	130675	2							ARTR	HEMIMIRI		10	1		3.4	
0301	NEW1	130675	2							ARTR	HEMIMIRI		10	1		2.0	
0301	NEW1	130675	2							ARTR	HEMIMIRI		40	1		1.4	
0302	NEW1	130675	2					2		ARTR	HEMIMIRI		10	1		2.0	
0303	NEW1	130675	2							ARTR	HEMIMIRI		10	1		4.3	
0303	NEW1	130675	2							ARTR	HEMIMIRI		10	1		2.1	
0301	WDL1	130674	1						2	ARTR	HEMIMIRI		10	9			
0303	WDL1	130674	1						2	ARTR	HEMIMIRI		10	2			
0303	WDL1	130674	2						2	ARTR	HEMIMIRI		10	2			
0301	WDL1	130674	2						2	ARTR	HEMIMIRI		10	3			
0302	WDL1	130674	2						2	ARTR	HEMIMIRI		10	1			
0302	WDL1	130674	1						2	ARTR	HEMIMIRI		10	2			
0302	LER1	151074	1							ARTR	HEMIMIRI		10	1		5.2	
0302	LER1	151074	2					1		ARTR	HEMIMIRI		10	1		5.4	
0303	LER1	151074	1							ARTR	HEMIMIRI		10	1		5.2	
0303	WDL1	180774	2						2	ARTR	HEMIMIRI		40	1			
0303	WDL1	180774	2						2	ARTR	HEMIMIRI		10	1			
0302	WDL1	180774	1						2	ARTR	HEMIMIRI		40	1			
0301	WDL1	180774	1						2	ARTR	HEMIMIRI		10	1			
0302	WDL2	10674	2							ARTR	HEMIMIRI		10	4			
0301	WDL2	10674	1							ARTR	HEMIMIRI		10	1			
0303	WDL2	10674	1						2	ARTR	HEMIMIRI		10	1			
0301	LER2	270875	2							ARTR	HEMIMIRI		10	1		2.0	
0302	LER2	270874	1							ARTR	HEMIMIRI		40	1		3.0	
0301	LER2	270874	1						2	ARTR	HEMIMIRI		10	5		5.9	
0302	WDL0	1010874	1						5	ARTR	HEMINABI		10	1			
0301	LER0	21075	1							ARTR	HEMINABI		10	3		6.4	
0303	LER0	21075	2							ARTR	HEMINABI		10	7		6.8	
0303	LER0	21075	1							ARTR	HEMINABI		10	5		6.5	
0302	LER0	21075	1							ARTR	HEMINABI		10	3		7.0	
0302	LER0	21075	2							ARTR	HEMINABI		10	1		7.5	
0302	LER0	50974	2							ARTR	HEMINABI		10		1		
0301	JKS0	60674	1						5	ARTR	HEMINABI		10	1			
0302	LER1	110375	1							ARTR	HEMINABI		10	1		5.6	
0302	NEW1	130675	2						2	6	ARTR	HEMINABI		40	2		4.6
0301	NEW1	130675	2							ARTR	HEMINABI		40	1		5.4	
0303	NEW1	130675	2							ARTR	HEMINABI		10	1		6.3	
0302	LER1	151074	1							ARTR	HEMINABI		10	1		7.0	
0302	LER1	151074	2					1		ARTR	HEMINABI		10	2		6.2	
0302	WDL1	180774	1						5	ARTR	HEMINABI		10	1			
0301	WDL2	10674	1							ARTR	HEMINABI		10	1			
0302	JKS2	10775	2							ARTR	HEMINABI		10	1		4.3	
0303	LER2	270875	1							ARTR	HEMINABI		10	3		6.3	
0302	LER2	270875	1							ARTR	HEMINABI		10	2		5.8	
0303	LER2	270875	2							ARTR	HEMINABI		10	3		6.3	
0302	LER2	270874	1							ARTR	HEMINABI		10	1		5.6	
0302	LER2	270874	2							ARTR	HEMINABI		10	2		7.4	
0301	LER2	270874	2						5	ARTR	HEMINABI		10	1		4.5	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0302LER151074	1							ARTR		HOMOAPHI	10	17	0.9	
0301LER151074	2							ARTR		HOMOAPHI	10	2	1.2	
0303LER151074	2							ARTR		HOMOAPHI	10	2	1.1	
0303LER151074	1							ARTR		HOMOAPHI	10	1	1.0	
0301LER151074	1							ARTR		HOMOAPHI	10	4	0.6	
0303WDL180774	2						2	ARTR		HOMOAPHI	10	7		
0303WDL180774	2						2	ARTR		HOMOAPHI	10	8		
0302WDL180774	2						2	ARTR		HOMOAPHI	10	22		
0303WDL180774	1						2	ARTR		HOMOAPHI	10	5		
0302WDL180774	1						2	ARTR		HOMOAPHI	10	14		
0301WDL180774	1						2	ARTR		HOMOAPHI	10	13		
0301WDL210674	2						2	ARTR		HOMOAPHI	10	3		
0303WDL210674	1						2	ARTR		HOMOAPHI	10	4		
0301WDL210674	1							ARTR		HOMOAPHI	10	7		
0302WDL210674	2							ARTR		HOMOAPHI	10	3		
0302WDL210674	1							ARTR		HOMOAPHI	10	1		
0303LER270974	2							ARTR		HOMOAPHI	10	3	1.6	
0301WDL010674	1						2	ARTR		HOMOCIC1	10	50		
0303WDL010674	1						2	ARTR		HOMOCIC1	10	11		
0302WDL010674	2						2	ARTR		HOMOCIC1	10	11		
0301WDL010674	2						2	ARTR		HOMOCIC1	10	14		
0303WDL010674	2						2	ARTR		HOMOCIC1	10	9		
0302WDL010674	1						2	ARTR		HOMOCIC1	10	33		
0301WDL020574	4						2	ARTR		HOMOCIC1	10	14		
0301WDL020574	1						2	ARTR		HOMOCIC1	10	9		
0301WDL020574	2						2	ARTR		HOMOCIC1	41	2		
0301WDL020574	2						2	ARTR		HOMOCIC1	10	2		
0301WDL020574	2						2	ARTR		HOMOCIC1	43	8		
0302WDL020574	2							ARTR		HOMOCIC1	40	6		
0302WDL020574	2							ARTR		HOMOCIC1	10	27		
0301WDL020574	4							ARTR		HOMOCIC1	10	14		
0302WDL020574	4							ARTR		HOMOCIC1	10	40		
0301LER020574	3						2	ARTR		HOMOCIC1	40	8	3.9	74009
0302JKS020674	1						2	ARTR		HOMOCIC1	10	15		
0302JKS020674	1						2	ARTR		HOMOCIC1	43	39		
0303LER021075	1							ARTR		HOMOCIC1	10	21	1.6	
0301LER021075	1							ARTR		HOMOCIC1	10	13	2.1	
0303LER021075	2							ARTR		HOMOCIC1	10	12	2.5	
0301LER021075	2							ARTR		HOMOCIC1	10	13	2.7	
0301LER021075	2							ARTR		HOMOCIC1	10	1	3.7	
0302LER021075	2							ARTR		HOMOCIC1	10	1	3.0	
0302LER021075	1							ARTR		HOMOCIC1	10	1	4.0	
0302LER021075	2							ARTR		HOMOCIC1	10	12	2.4	
0302LER021075	1							ARTR		HOMOCIC1	10	6	2.7	
0303LER021075	1							ARTR		HOMOCIC1	10	1	3.8	
0303WDL030574	4						2	ARTR		HOMOCIC1	10	23		
0303WDL030574	4						2	ARTR		HOMOCIC1	40	9		
0303WDL030574	1							ARTR		HOMOCIC1	10	10		
0303WDL030574	1							ARTR		HOMOCIC1	40	13		
0303WDL030574	2							ARTR		HOMOCIC1	10	36		
0303WDL030574	2							ARTR		HOMOCIC1	40	27		
0303JKS030574	3						2	ARTR		HOMOCIC1	40	34		
0303JKS030574	3						2	ARTR		HOMOCIC1	10	8		
0302JKS040774	1						2	ARTR		HOMOCIC1	43	3		
0302JKS040774	1						2	ARTR		HOMOCIC1	10	15		
0301WDL040774	1						2	ARTR		HOMOCIC1	10	14		
0301LER040774	2						2	ARTR		HOMOCIC1	10	21		
0302WDL040774	2						2	ARTR		HOMOCIC1	10	14		
0303WDL040774	2						2	ARTR		HOMOCIC1	10	14		
0303WDL040774	1						2	ARTR		HOMOCIC1	10	10		
0302LER050675	2							ARTR		HOMOCIC1	40	1	2.2	
0302LER050675	2							ARTR		HOMOCIC1	40	7	3.3	
0302LER050675	2							ARTR		HOMOCIC1	10	1	4.3	
0302LER050974	2							ARTR		HOMOCIC1	10	4		
0301LER050974	2							ARTR		HOMOCIC1	10	10		
0303LER050974	2							ARTR		HOMOCIC1	10	12		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Lifestage	Total	Length (cm)	Identification
										Taxa		Number		Number
0301	LE	R050974	1					ARTR		HOMOCIC1	10	57		
0302	LE	R050974	1					ARTR		HOMOCIC1	10	9		
0303	LE	R050974	1					ARTR		HOMOCIC1	10	15		
0301	LE	R051274	1					ARTR		HOMOCIC1	10	4	2.0	
0303	LE	R051274	2					ARTR		HOMOCIC1	10	2	1.4	
0303	LE	R060575	2					ARTR		HOMOCIC1	10	14	3.5	
0303	LE	R060575	2					ARTR		HOMOCIC1	40	3	3.0	
0303	LE	R060575	2					ARTR		HOMOCIC1	10	1	3.5	
0301	LE	R060575	2					ARTR		HOMOCIC1	40	4	2.8	
0301	LE	R060575	2					ARTR		HOMOCIC1	10	1	1.2	
0301	LE	R060575	2					ARTR		HOMOCIC1	10	1	3.0	
0301	LE	R060575	2					ARTR		HOMOCIC1	40	4	3.6	
0301	LE	R060575	2					ARTR		HOMOCIC1	40	7	3.3	
0301	LE	R060575	1					ARTR		HOMOCIC1	10	7	4.0	
0301	LE	R060575	1					ARTR		HOMOCIC1	40	1	1.5	
0302	LE	R060575	1					ARTR		HOMOCIC1	40	3	2.9	
0302	LE	R060575	1					ARTR		HOMOCIC1	40	3	3.8	
0303	LE	R060575	1					ARTR		HOMOCIC1	40	2	4.0	
0303	LE	R060575	1					ARTR		HOMOCIC1	40	3	3.5	
0303	LE	R060575	1					ARTR		HOMOCIC1	40	2	2.5	
0303	LE	R060575	1					ARTR		HOMOCIC1	10	1	2.9	
0301	LE	R060575	1					ARTR		HOMOCIC1	40	8	3.0	
0301	LE	R060575	1					ARTR		HOMOCIC1	40	2	1.9	
0301	WDL	R060674	2					ARTR		HOMOCIC1	10	25		
0301	JKS	R060674	4				2	ARTR		HOMOCIC1	10	24		
0301	WDL	R060674	3				2	ARTR		HOMOCIC1	10	48		
0303	JKS	R060674	1				2	ARTR		HOMOCIC1	10	44		
0303	JKS	R060674	1				2	ARTR		HOMOCIC1	43	4		
0302	JKS	R060674	1				2	ARTR		HOMOCIC1	10	17		
0301	JKS	R060674	1				2	ARTR		HOMOCIC1	43	1		
0301	JKS	R060674	1				2	ARTR		HOMOCIC1	10	31		
0303	WDL	R060674	2				2	ARTR		HOMOCIC1	10	108		
0302	WDL	R060674	2					ARTR		HOMOCIC1	10	29		
0303	LE	R110375	1					ARTR		HOMOCIC1	10	1	2.2	
0302	LE	R110375	1					ARTR		HOMOCIC1	10	2	1.9	
0301	LE	R121275	1					ARTR		HOMOCIC1	10	2	2.8	
0301	LE	R121275	1					ARTR		HOMOCIC1	10	1	2.1	
0301	LE	R121275	2					ARTR		HOMOCIC1	10	1	2.4	
0301	LE	R130375	2					ARTR		HOMOCIC1	10	2	2.2	
0302	NE	R130675	1				1	ARTR		HOMOCIC1	10	1	6.4	
0301	NE	R130675	1					ARTR		HOMOCIC1	10	44	2.3	
0301	NE	R130675	1					ARTR		HOMOCIC1	40	1	3.1	
0301	NE	R130675	1					ARTR		HOMOCIC1	10	1	6.1	
0301	NE	R130675	1					ARTR		HOMOCIC1	40	2	0.8	
0301	NE	R130675	1					ARTR		HOMOCIC1	40	5	1.7	
0303	NE	R130675	1					ARTR		HOMOCIC1	10		2.0	
0302	NE	R130675	1				1	ARTR		HOMOCIC1	10	30	2.3	
0303	NE	R130675	2					ARTR		HOMOCIC1	10	1	6.0	
0303	NE	R130675	2					ARTR		HOMOCIC1	10	34	2.2	
0301	NE	R130675	2					ARTR		HOMOCIC1	10	33	2.3	
0302	NE	R130675	2				2	ARTR		HOMOCIC1	40	1	1.5	
0302	NE	R130675	2				2	ARTR		HOMOCIC1	10	52	1.8	
0301	WDL	R130874	2				2	ARTR		HOMOCIC1	10	5		
0303	WDL	R130874	2				2	ARTR		HOMOCIC1	40	1		
0303	WDL	R130874	2				2	ARTR		HOMOCIC1	10	8		
0302	WDL	R130874	2				2	ARTR		HOMOCIC1	10	5		
0301	WDL	R130874	1				2	ARTR		HOMOCIC1	40	4		
0301	WDL	R130874	1				2	ARTR		HOMOCIC1	10	29		
0302	WDL	R130874	1				2	ARTR		HOMOCIC1	10	14		
0302	LE	R151074	2				1	ARTR		HOMOCIC1	10	9	2.1	
0302	LE	R151074	2				1	ARTR		HOMOCIC1	10	1	3.3	
0303	LE	R151074	2					ARTR		HOMOCIC1	10	20	2.3	
0301	LE	R151074	2					ARTR		HOMOCIC1	10	2	1.8	
0302	LE	R151074	1					ARTR		HOMOCIC1	10	3	2.0	
0303	LE	R151074	1					ARTR		HOMOCIC1	10	2	3.5	
0301	LE	R151074	1					ARTR		HOMOCIC1	10	3	2.3	

Data Type	Site	Initials			Date	Treatment	Trophic		Invertebrate Taxa	Lifestage		Length (cm)	Identification Number
		Day	Month	Year			Shrub			Total	Number		
0303	WDL	180	774	2		2	ARTR		HOMOCIC1	10	34		
0302	WDL	180	774	2		2	ARTR		HOMOCIC1	10	19		
0303	WDL	180	774	2		2	ARTR		HOMOCIC1	10	33		
0303	WDL	180	774	1		2	ARTR		HOMOCIC1	10	6		
0302	WDL	180	774	1		2	ARTR		HOMOCIC1	10	25		
0301	WDL	180	774	1		2	ARTR		HOMOCIC1	10	18		
0303	WDL	210	674	2		2	ARTR		HOMOCIC1	10	17		
0301	WDL	210	674	2		2	ARTR		HOMOCIC1	10	31		
0302	WDL	210	674	1		2	ARTR		HOMOCIC1	10	7		
0302	WDL	210	674	2		2	ARTR		HOMOCIC1	10	7		
0301	WDL	210	674	1		2	ARTR		HOMOCIC1	10	18		
0303	WDL	210	674	1		2	ARTR		HOMOCIC1	10	17		
0302	JKS	210	775	2		2	ARTR		HOMOCIC1	10	2	1.3	
0302	LER	210	775	1		2	ARTR		HOMOCIC1	10	3	2.1	
0302	LER	270	675	1		2	ARTR		HOMOCIC1	10	7	2.0	
0303	LER	270	675	1		2	ARTR		HOMOCIC1	10	9	2.2	
0301	LER	270	675	1		2	ARTR		HOMOCIC1	10	2	1.5	
0301	LER	270	675	1		2	ARTR		HOMOCIC1	10	2	2.2	
0301	LER	270	675	2		2	ARTR		HOMOCIC1	10	1	1.5	
0302	LER	270	675	2		2	ARTR		HOMOCIC1	10	5	2.5	
0302	LER	270	675	2		2	ARTR		HOMOCIC1	10	2	2.0	
0303	LER	270	675	2		2	ARTR		HOMOCIC1	10		2.1	
0301	LER	270	974	2		2	ARTR		HOMOCIC1	10	13	1.3	
0302	LER	270	974	2		2	ARTR		HOMOCIC1	10	3	2.0	
0301	LER	270	974	1		2	ARTR		HOMOCIC1	10	3	2.0	
0303	LER	270	974	2		2	ARTR		HOMOCIC1	10	4	1.7	
0302	LER	270	974	1		2	ARTR		HOMOCIC1	10	3	1.9	
0301	LER	210	775	2		2	ARTR		HOMOCIC1	10	1	5.0	
0301	LER	270	675	1		2	ARTR		HOMOCIC1	10	3	4.0	
0301	LER	210	775	2		2	ARTR		HOMOCPTH	10	1	1.4	
0302	LER	210	775	2		2	ARTR		HOMOCPTH	10	1	1.3	
0302	LER	210	775	1		2	ARTR		HOMOCPTH	10	1	1.0	
0302	LER	210	775	1		2	ARTR		HOMOCPTH	10	1	1.5	
0303	LER	210	775	1		2	ARTR		HOMOCPTH	10	2	1.4	
0303	LER	210	775	2		2	ARTR		HOMOCPTH	40	1	1.5	
0301	LER	210	775	1		2	ARTR		HOMOCPTH	10	4	1.5	
0303	LER	260	974	2		2	ARTR		HOMOCPTH	10	1		
0301	LER	121	275	2		2	ARTR		HOMOCPTH	10	1	1.5	
0301	LER	130	375	2		2	ARTR		HOMOCPTH	10	1	2.2	
0303	LER	151	074	1		2	ARTR		HOMOCPTH	10	1	1.7	
0301	LER	151	074	2		2	ARTR		HOMOCPTH	10	1	2.2	74334
0303	LER	151	074	2		2	ARTR		HOMOCPTH	10	1	1.5	
0302	LER	270	675	2		2	ARTR		HOMOCPTH	10	1	1.0	
0301	LER	020	674	3		2	ARTR		HOMOPSYL	10	2	1.5	74014
0302	JKS	020	674	1		2	ARTR		HOMOPSYL	10	1		
0303	LER	0321	075	2		2	ARTR		HOMOPSYL	10	1	1.6	
0302	LER	050	675	2		2	ARTR		HOMOPSYL	10	1	1.3	
0303	LER	060	575	2		2	ARTR		HOMOPSYL	10	2	1.5	
0301	LER	060	575	2		2	ARTR		HOMOPSYL	10	4	1.6	
0303	LER	060	575	1		2	ARTR		HOMOPSYL	10	1	1.3	
0302	LER	060	575	1		2	ARTR		HOMOPSYL	10	1	1.2	
0301	LER	060	575	1		2	ARTR		HOMOPSYL	10	1	1.8	
0301	NE	130	675	1		2	ARTR		HOMOPSYL	10	2	1.2	
0302	NE	130	675	1		1	ARTR		HOMOPSYL	10	3	1.4	
0303	NE	130	675	1		2	ARTR		HOMOPSYL	10	5	1.5	
0302	NE	130	675	2		2	ARTR		HOMOPSYL	10	9	1.6	
0303	NE	130	675	2		2	ARTR		HOMOPSYL	10	3	1.3	
0301	NE	130	675	2		2	ARTR		HOMOPSYL	10	1	1.5	
0302	JKS	020	674	1		2	ARTR		LYNE	10	1		
0301	WDL	210	674	1		2	ARTR		LYNE	10	1		
0302	JKS	40	774	1		3	ARTR		LYNE	10	1		
0303	WDL	060	674	2		3	ARTR		LYNE	10	1		
0301	WDL	010	674	2		3	ARTR		LYNE	10	1		
0302	WDL	020	574	2		2	ARTR		LYNE	10	1		
0302	LER	021	375	2		2	ARTR		LYNE	10	1	2.8	
0303	LER	021	075	2		2	ARTR		LYNE	10	1	3.0	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Lifestage	Total Number	Length (cm)	Identification Number
0303WDL030574			4					3	ARTR	HYMEBRAC	10	1		
0303WDL030574			1					3	ARTR	HYMEBRAC	10	1		
0303WDL040774			2					3	ARTR	HYMEBRAC	10	1		
0301LER040774			2					3	ARTR	HYMEBRAC	10	1		
0301LER060575			2						ARTR	HYMEBRAC	10	4	1.1	
0303LER060575			2						ARTR	HYMEBRAC	10	1	2.5	
0301WDL060674			3					3	ARTR	HYMEBRAC	10	1		
0301JUS060674			1					3	ARTR	HYMEBRAC	10	1		
0301JUS060674			1					3	ARTR	HYMEBRAC	10	3		
0303WDL060674			2					6	ARTR	HYMEBRAC	10	1		
0302NEW130675			2				2		ARTR	HYMEBRAC	10	1	4.7	
0302WDL130874			1					3	ARTR	HYMEBRAC	10	2		
0303LER151074			1						ARTR	HYMEBRAC	10	1	1.5	
0301WDL180774			1					3	ARTR	HYMEBRAC	10	1		
0301WDL210674			1						ARTR	HYMEBRAC	10	1		
0302JUS020674			1					3	ARTR	HYMECHAL	10	1		
0301WDL010874			1					3	ARTR	HYMECHAL	10	1		
0303WDL010874			2					3	ARTR	HYMECHAL	10	2		
0303WDL010874			1					3	ARTR	HYMECHAL	10	1		
0302WDL010874			1					3	ARTR	HYMECHAL	10	2		
0302LER021075			2						ARTR	HYMECHAL	10	1	1.6	
0303LER021075			2						ARTR	HYMECHAL	10	1	1.5	
0302JUS040774			1					3	ARTR	HYMECHAL	10	1		
0303WDL040774			1					3	ARTR	HYMECHAL	10	1		
0303WDL040774			2					3	ARTR	HYMECHAL	10	3		
0302LER050675			2						ARTR	HYMECHAL	10	1	1.2	
0301LER050974			1						ARTR	HYMECHAL	10	1		
0303LER060575			2						ARTR	HYMECHAL	10	1	1.2	
0301060575			1						ARTR	HYMECHAL	10	1	1.5	
0301JUS060674			1					3	ARTR	HYMECHAL	10	2		
0302NEW130675			1				1		ARTR	HYMECHAL	10	1	3.7	
0301NEW130675			1						ARTR	HYMECHAL	10	3	1.1	
0302NEW130675			1				1		ARTR	HYMECHAL	10	1	1.0	
0302NEW130675			2				2		ARTR	HYMECHAL	10	1	1.0	
0301NEW130675			2						ARTR	HYMECHAL	10	1	1.2	
0303LER151074			1						ARTR	HYMECHAL	10	3	1.3	
0301LER151074			1						ARTR	HYMECHAL	10	1	1.4	
0302LER151074			1						ARTR	HYMECHAL	10	1	1.2	
0303LER151074			2						ARTR	HYMECHAL	10	2	1.2	
0303WDL180774			2					3	ARTR	HYMECHAL	10	1		
0302WDL180774			2					3	ARTR	HYMECHAL	10	1		
0302WDL180774			1					3	ARTR	HYMECHAL	10	2		
0302WDL210674			2						ARTR	HYMECHAL	10	2		
0303WDL210674			2						ARTR	HYMECHAL	10	1		
0301WDL210674			1						ARTR	HYMECHAL	10	1		
0301LER210775			1						ARTR	HYMECHAL	10	1	4.0	
0303LER270875			2						ARTR	HYMECHAL	10	1	4.0	
0303LER270875			1						ARTR	HYMECHAL	10	1	2.0	
0303WDL180774			2					3	ARTR	HYMECHRY	10	1		
0301WDL060674			2						ARTR	HYMECHRY	10	1		
0302NEW130675			2				2		ARTR	HYMECHRY	10	1	0.9	
0301NEW130675			1						ARTR	HYMECHRY	10	1	0.6	
0301LER270974			1						ARTR	HYMECHRY	10	1	1.4	
0302WDL020574			2						ARTR	HYMECHRY	10	1		
0302JUS060674			1					3	ARTR	HYMECHRY	10	1		
0302WDL060674			2					5	ARTR	HYMECHRY	10	1		
0301WDL010874			1					8	ARTR	HYMEFORM	10	1		
0302WDL010874			1					7	ARTR	HYMEFORM	10	2		
0303WDL010874			1					8	ARTR	HYMEFORM	10	4		
0301WDL010874			2					8	ARTR	HYMEFORM	10	1		
0301LER021075			2						ARTR	HYMEFORM	10	1	3.7	
0303LER021075			1						ARTR	HYMEFORM	10	1	4.0	
0303WDL030574			2						ARTR	HYMEFORM	10	5		
0303WDL030574			1						ARTR	HYMEFORM	10	5		
0303WDL030574			4					7	ARTR	HYMEFORM	10	5		
0302JUS040774			1					7	ARTR	HYMEFORM	10	3		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total	Number	Length (cm)	Identification
0303	WDL	040774	1					7	ARTR	HYMEFORM		10	12			
0301	WDL	040774	1					7	ARTR	HYMEFORM		10	1			
0303	WDL	040774	2					7	ARTR	HYMEFORM		10	10			
0302	LEF	050675	2						ARTR	HYMEFORM		10	1		4.2	
0303	LEF	060575	2						ARTR	HYMEFORM		10	1		3.6	
0301	LEF	060575	1						ARTR	HYMEFORM		10	2		5.3	
0303	LEF	060575	1						ARTR	HYMEFORM		10	5		4.2	
0301	LEF	060575	1						ARTR	HYMEFORM		10	1		3.9	
0301	WDL	060674	3					7	ARTR	HYMEFORM		10	6			
0303	WDL	060674	2					7	ARTR	HYMEFORM		10	5			
0303	NEW	130675	1						ARTR	HYMEFORM		10	1		3.8	
0301	NEW	130675	1						ARTR	HYMEFORM		10	1		4.0	
0302	NEW	130675	1				1		ARTR	HYMEFORM		10	4		4.3	
0303	NEW	130675	1						ARTR	HYMEFORM		10	1		6.3	
0301	NEW	130675	1						ARTR	HYMEFORM		10	2		5.0	
0301	NEW	130675	2						ARTR	HYMEFORM		10	1		4.2	
0303	NEW	130675	2						ARTR	HYMEFORM		10	4		4.8	
0303	WDL	130874	2					8	ARTR	HYMEFORM		10	3			
0302	WDL	130874	2					8	ARTR	HYMEFORM		10	1			
0302	WDL	130874	1					8	ARTR	HYMEFORM		10	3			
0301	WDL	130874	1					8	ARTR	HYMEFORM		10	1			
0303	LEF	151074	2						ARTR	HYMEFORM		10	2		4.5	
0303	LEF	151074	1						ARTR	HYMEFORM		10	1		4.6	
0303	WDL	180774	2					7	ARTR	HYMEFORM		10	10			
0302	WDL	180774	2					7	ARTR	HYMEFORM		10	4			
0303	WDL	180774	2					7	ARTR	HYMEFORM		10	6			
0303	WDL	180774	1					7	ARTR	HYMEFORM		10	2			
0301	WDL	180774	1					7	ARTR	HYMEFORM		10	2			
0303	WDL	210674	2						ARTR	HYMEFORM		10	3			
0302	WDL	210674	2						ARTR	HYMEFORM		10	5			
0301	WDL	210674	2					7	ARTR	HYMEFORM		10	2			
0301	WDL	210674	1						ARTR	HYMEFORM		10	5			
0303	WDL	210674	1					7	ARTR	HYMEFORM		10	1			
0303	LEF	210775	2						ARTR	HYMEFORM		10	4		3.2	
0303	LEF	270875	1						ARTR	HYMEFORM		10	1		6.0	
0303	LEF	270875	1						ARTR	HYMEFORM		10	5		3.6	
0301	LEF	270875	1						ARTR	HYMEFORM		10	1		2.6	
0303	LEF	270875	2						ARTR	HYMEFORM		10	3		4.4	
0301	LEF	270974	2						ARTR	HYMEFORM		10	2		2.5	
0303	UKS	060674	3					7	ARTR	HYMEFORMFO	SP	10	5			
0301	LEF	050974	2						ARTR	HYMEFORMFO		10	1			
0302	LEF	050974	2						ARTR	HYMEFORMFO		10	3			
0302	LEF	050974	1						ARTR	HYMEFORMFO		10	1			
0303	LEF	050974	1						ARTR	HYMEFORMFO		10	1			
0303	UKS	060674	1					7	ARTR	HYMEFORMFO	SP	10	4			
0301	UKS	060674	4					7	ARTR	HYMEFORMFO	SP	10	1			
0301	LEF	210775	1						ARTR	HYMEFORMFO		10	1		4.7	
0303	LEF	210775	1						ARTR	HYMEFORMFO		10	3		4.5	
0302	WDL	021074	2					3	ARTR	HYMEICHN		10	1			
0302	LEF	021075	2						ARTR	HYMEICHN		10	1		5.4	
0303	LEF	021075	2						ARTR	HYMEICHN		10	1		8.0	
0303	LEF	060575	2						ARTR	HYMEICHN		10	1		5.9	
0302	LEF	060575	1						ARTR	HYMEICHN		10	1		5.2	
0301	UKS	060674	1					3	ARTR	HYMEICHN		10	3			
0302	NEW	130675	2				2		ARTR	HYMEICHN		10	1		12.3	
0301	WDL	210674	1						ARTR	HYMEICHN		10	2			
0303	WDL	210674	1					5	ARTR	HYMEICHN		10	1			
0303	WDL	210674	1					3	ARTR	HYMEICHN		10	1			
0301	WDL	210674	2					6	ARTR	HYMEICHN		10	5			
0301	NEW	130675	1						ARTR	HYMEICHN		10	2			
0302	UKS	060674	1					3	ARTR	HYMEPERI		10	1		0.5	
0301	LEF	050974	2						ARTR	HYMEPERI		10	1			
0301	UKS	060674	4					3	ARTR	HYMEPERI		10	2			
0301	UKS	060674	1					3	ARTR	HYMEPERI		10	1			
0302	WDL	210674	1						ARTR	HYMEPERI		10	1			
0302	UKS	020674	1					3	ARTR	HYMEPLAT		10	1			

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0303	WDL	030574	1					3	ARTR	HYMEPLAT				
0303	WDL	040774	1					3	ARTR	HYMEPLAT	10	1		
0302	WDL	180774	1					3	ARTR	HYMEPOMP	10	1		
0301	LER	270974	2						ARTR	HYMEPTER	10	1	3.4	
0303	WDL	030574	2						ARTR	HYMESPHE	10	1		
0303	WDL	030574	4					3	ARTR	HYMESPHE	10	1		
0303	WDL	040774	1					3	ARTR	HYMESPHE	10	1		
0303	WDL	040774	2					3	ARTR	HYMESPHE	10	3		
0301	WDL	060674	3					3	ARTR	HYMESPHE	10	1		
0302	JKS	060674	1					3	ARTR	HYMESPHE	10	1		
0302	WDL	060674	2						ARTR	HYMESPHE	10	2		
0301	WDL	060674	2						ARTR	HYMESPHE	10	3		
0303	WDL	210674	1					3	ARTR	HYMESPHE	10	1		
0301	WDL	210674	1						ARTR	HYMESPHE	10	1		
0303	WDL	210674	2						ARTR	HYMESPHE	10	1		
0302	LER	270875	1						ARTR	HYMESPHE	10	1	4.5	
0302	LER	270875	2						ARTR	HYMETIPH	10	1		
0303	WDL	180774	2					3	ARTR	HYMETIPH	10	2		
0303	JKS	060674	1					0	ARTR	HYMETORY	10	1		
0302	WDL	180774	1					5	ARTR	HYMETORY	10	1		
0301	LER	020574	3					1	ARTR	LEPI	40	3	2.3	74012
0301	LER	020574	3					1	ARTR	LEPI	40	2	5.0	74012
0302	LER	021075	1						ARTR	LEPI	10	1	2.5	
0303	LER	021075	2						ARTR	LEPI	40	1	5.4	
0301	LER	040474	2					1	ARTR	LEPI	40	1		
0301	LER	110375	1						ARTR	LEPI	40	1	5.0	74569
0302	LER	130375	2						ARTR	LEPI	40	1	3.5	
0303	NEW	130675	1						ARTR	LEPI	10	1	3.3	
0302	NEW	130675	1				1		ARTR	LEPI	10	1	2.7	
0303	NEW	130675	2						ARTR	LEPI	40	1	3.9	
0301	NEW	130675	2						ARTR	LEPI	10	1	4.5	
0302	NEW	130675	2				2		ARTR	LEPI	10	2	3.5	
0302	LER	151074	1						ARTR	LEPI	10	1	3.3	
0303	LER	151074	1						ARTR	LEPI	10	1	3.5	
0303	LER	270875	2						ARTR	LEPI	10	1	3.7	
0302	LER	270875	1						ARTR	LEPI	10	2	5.6	
0301	WDL	010874	2					1	ARTR	LEPIGEOM	40	1		
0303	WDL	010874	1					1	ARTR	LEPIGEOM	40	2		
0302	WDL	010874	1					2	ARTR	LEPIGEOM	40	3		
0301	WDL	010874	1					3	ARTR	LEPIGEOM	10	1		
0301	WDL	020574	2					1	ARTR	LEPIGEOM	43	1		
0302	LER	021075	2						ARTR	LEPIGEOM	40	2	5.0	
0302	LER	021075	2						ARTR	LEPIGEOM	40	1	3.0	
0303	LER	021075	2						ARTR	LEPIGEOM	40	1	4.0	
0301	LER	021075	1						ARTR	LEPIGEOM	40	1	5.4	
0303	JKS	030574	3					1	ARTR	LEPIGEOM	43	1		
0301	LER	040774	2					1	ARTR	LEPIGEOM	40	1		
0301	WDL	040774	1					1	ARTR	LEPIGEOM	40	2		
0302	LER	050974	1						ARTR	LEPIGEOM	40	1		
0302	LER	051274	2						ARTR	LEPIGEOM	40	1	20.0	
0302	LER	060575	1						ARTR	LEPIGEOM	40	1	5.3	
0301	LER	121275	1						ARTR	LEPIGEOM	40	1	22.5	
0301	NEW	130675	2						ARTR	LEPIGEOM	40	1	7.5	
0301	LER	151074	2						ARTR	LEPIGEOM	40	1	13.0	
0302	LER	151074	1						ARTR	LEPIGEOM	10	1	22.4	
0303	WDL	180774	2					1	ARTR	LEPIGEOM	40	1		
0302	WDL	180774	1					1	ARTR	LEPIGEOM	40	1		
0301	WDL	210674	1						ARTR	LEPIGEOM	40	1		
0303	LER	210775	2						ARTR	LEPIGEOM	40	1	11.2	
0301	LER	210775	2						ARTR	LEPIGEOM	40	2	13.4	
0301	LER	210775	1						ARTR	LEPIGEOM	40	2	14.5	
0303	LER	210775	1						ARTR	LEPIGEOM	40	1	19.5	
0301	LER	270974	2					1	ARTR	LEPIGEOM	40	1	4.0	
0302	LER	270974	1						ARTR	LEPIGEOM	40	1	14.0	
0303	JKS	060674	1					0	ARTR	LEPILYON	10	1		
0303	WDL	030574	1						ARTR	LEPINDOCT	40	2		

Data Type	Site	Initials	Day	Month	Year	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0303	LER	030974	2				ARTR		LEPINOCT	10	1		
0303	LER	060575	1				ARTR		LEPINOCT	40	1	25.2	
0303	JKS	060674	1				1 ARTR		LEPINOCT	42	2		
0301	WDL	020574	4				1 ARTR		LEPIPLUT	42	6		
0301	WDL	020574	2				1 ARTR		LEPIPLUT	41	3		
0303	JKS	030574	3				1 ARTR		LEPIPLUT	40	6		
0303	WDL	030574	4				1 ARTR		LEPIPLUT	40	14		
0302	WDL	020574	2				ARTR		LEPIPYRA	40	4		
0301	WDL	020574	4				ARTR		LEPIPYRA	10	1		
0302	JKS	020674	1				1 ARTR		LEPIPYRA	40	7		
0303	WDL	030574	2				ARTR		LEPIPYRA	40	11		
0303	WDL	030574	1				ARTR		LEPIPYRA	40	5		
0303	LER	110375	1				ARTR		LEPIPYRA	40	2	4.3	7 45 68
0301	WDL	010874	1				5 ARTR		NEURCHRY	40	1		
0302	WDL	010874	1				5 ARTR		NEURCHRY	10	1		
0302	WDL	010874	2				5 ARTR		NEURCHRY	10	1		
0301	WDL	020574	4				5 ARTR		NEURCHRY	42	2		
0302	WDL	020574	2				ARTR		NEURCHRY	40	1		
0303	WDL	030574	4				5 ARTR		NEURCHRY	42	2		
0301		060575	1				ARTR		NEURCHRY	40	1	2.5	
0303	LER	060575	1				ARTR		NEURCHRY	10	1	9.0	
0301	LER	060575	2				ARTR		NEURCHRY	10	1	8.7	
0301	WDL	060674	3				5 ARTR		NEURCHRY	10	1		
0303	LER	270974	2				ARTR		NEURCHRY	40	1	4.0	
0303	LER	021075	1				ARTR		NEURCHRYCH CA	10	1	10.5	
0301	LER	050974	2				ARTR		NEURCHRYCH CA	10	1		
0301	WDL	020574	1				5 ARTR		NEURHEME	43	1		
0302	LER	050675	2				ARTR		NEURHEME	10	1	4.9	
0302	LER	060575	1				ARTR		NEURHEME	40	1	2.4	
0303	WDL	030574	1				ARTR		NEURRAPH	10	1		
0303	WDL	030574	2				ARTR		NEURRAPH	10	1		
0303	LER	060575	1				ARTR		NEURRAPH	10	1	8.0	
0301	LER	060575	1				ARTR		NEURRAPH	10	1	9.4	
0303	WDL	060674	2				5 ARTR		NEURRAPH	10	2		
0303	WDL	030574	4				5 ARTR		NEURPAPHAG BI	10	1		
0303	JKS	030574	3				5 ARTR		NEURPAPHAG BI	10	1		
0301	WDL	020574	4				1 ARTR		ORTHACRI	42	1		
0301	LER	020574	3				1 ARTR		ORTHACRI	40	1	4.7	
0302	WDL	020574	4				ARTR		ORTHACRI	41	1		
0303	WDL	030574	2				ARTR		ORTHACRI	40	3		
0301	WDL	040774	1				1 ARTR		ORTHACRI	40	24		
0303	WDL	040774	1				1 ARTR		ORTHACRI	40	6		
0301	WDL	040774	1				1 ARTR		ORTHACRI	10	3		
0302	JKS	040774	1				1 ARTR		ORTHACRI	40	4		
0302	JKS	040774	1				1 ARTR		ORTHACRI	10	4		
0301	LER	040774	2				1 ARTR		ORTHACRI	40	4		
0302	WDL	040774	2				1 ARTR		ORTHACRI	40	2		
0302	WDL	040774	2				1 ARTR		ORTHACRI	10	7		
0303	WDL	040774	2				1 ARTR		ORTHACRI	10	1		
0303	WDL	040774	2				1 ARTR		ORTHACRI	42	12		
0302	LER	050974	1				ARTR		ORTHACRI	10	1		
0301	LER	060575	1				ARTR		ORTHACRI	40	1	4.4	
0302	LER	060575	1				ARTR		ORTHACRI	40	1	4.6	
0302	LER	060575	1				ARTR		ORTHACRI	40	1	5.8	
0301	WDL	060674	3				1 ARTR		ORTHACRI	40	8		
0301	JKS	060674	4				1 ARTR		ORTHACRI	41	3		
0301	WDL	060674	2				ARTR		ORTHACRI	40	13		
0303	JKS	060674	1				1 ARTR		ORTHACRI	42	2		
0303	JKS	060674	1				1 ARTR		ORTHACRI	40	2		
0301	JKS	060674	1				1 ARTR		ORTHACRI	41	20		
0303	WDL	060674	2				1 ARTR		ORTHACRI	41	7		
0302	WDL	060674	2				ARTR		ORTHACRI	40	3		
0302	NEW	130675	1				1 ARTR		ORTHACRI	40	1	6.9	
0303	NEW	130675	1				ARTR		ORTHACRI	40	6	8.3	
0303	NEW	130675	1				ARTR		ORTHACRI	40	1	14.9	
0301	NEW	130675	1				ARTR		ORTHACRI	40	10	7.8	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Life Stage	Total Number	Length (cm)	Identification Number
0301	NEW1	30675	1					ARTR		ORTHACRI	40	0	6.0	
0303	NEW1	30675	1					ARTR		ORTHACRI	40	5	6.2	
0303	NEW1	30675	2					ARTR		ORTHACRI	40	1	20.5	
0303	NEW1	30675	2					ARTR		ORTHACRI	40	15	9.1	
0301	NEW1	30675	2					ARTR		ORTHACRI	40	8	7.1	
0301	NEW1	30675	2					ARTR		ORTHACRI	40	6	9.2	
0302	NEW1	30675	2				2	ARTR		ORTHACRI	40	3	9.6	
0302	NEW1	30675	2				2	ARTR		ORTHACRI	40	4	7.3	
0302	NEW1	30675	2				2	ARTR		ORTHACRI	40	5	5.8	
0303	NEW1	30675	2					ARTR		ORTHACRI	40	1	16.0	
0303	NEW1	30675	2					ARTR		ORTHACRI	40	10	6.0	
0301	WDL2	10674	1					ARTR		ORTHACRI	40	37		
0303	WDL2	10674	1					ARTR	1	ORTHACRI	40	9		
0302	WDL2	10674	1					ARTR		ORTHACRI	40	14		
0303	WDL2	10674	2					ARTR		ORTHACRI	40	21		
0301	WDL2	10674	2					ARTR	1	ORTHACRI	40	22		
0302	WDL2	10674	2					ARTR		ORTHACRI	40	9		
0303	LER2	10775	1					ARTR		ORTHACRI	40	1	18.0	
0301	LER2	10775	2					ARTR		ORTHACRI	40	5	18.6	
0301	LER2	10775	2					ARTR		ORTHACRI	40	1	8.3	
0303	LER2	10775	1					ARTR		ORTHACRI	40	1	22.3	
0301	LER2	10775	2					ARTR		ORTHACRI	40	4	20.5	
0301	LER2	10775	1					ARTR		ORTHACRI	40	1	23.0	
0301	LER2	10775	1					ARTR		ORTHACRI	40	4	11.9	
0302	LER2	10775	1					ARTR		ORTHACRI	40	2	2.0	
0301	LER2	10775	1					ARTR		ORTHACRI	40	3	21.7	
0303	LER2	10775	1					ARTR		ORTHACRI	40	2	18.4	
0303	LER2	10775	2					ARTR		ORTHACRI	40	5	21.6	
0303	LER2	10775	2					ARTR		ORTHACRI	40	2	9.4	
0303	LER2	70974	2					ARTR		ORTHACRI AG DE	10	1	27.2	
0301	LER2	10775	2					ARTR		ORTHACRI HE VI	10	2	21.7	
0301	WDL0	10374	1					ARTR	1	ORTHACRI ME CI	10	5		
0301	WDL0	10374	1					ARTR	1	ORTHACRI ME SA	10	1		
0303	WDL0	10374	1					ARTR	1	ORTHACRI ME CI	40	1		
0301	WDL0	10374	1					ARTR	1	ORTHACRI ME CI	40	3		
0302	WDL0	10374	1					ARTR	2	ORTHACRI ME CI	40	2		
0301	WDL0	10374	2					ARTR	1	ORTHACRI ME CI	40	2		
0301	WDL0	10374	2					ARTR	1	ORTHACRI ME CI	10	7		
0303	WDL0	10374	2					ARTR	1	ORTHACRI ME CI	40	5		
0303	LER0	21075	1					ARTR		ORTHACRI ME CI	10	1	21.6	
0303	LER0	21075	2					ARTR		ORTHACRI ME CI	10	3	26.0	
0302	LER0	21075	1					ARTR		ORTHACRI ME CI	10	1	28.7	
0303	LER0	09074	1					ARTR		ORTHACRI ME CI	10	1		
0302	WDL1	130874	2					ARTR	1	ORTHACRI ME CI	10	1		
0303	WDL1	130874	2					ARTR	1	ORTHACRI ME CI	10	5		
0301	WDL1	130874	2					ARTR	1	ORTHACRI ME CI	10	1		
0303	WDL1	130874	1					ARTR	1	ORTHACRI ME CI	10	2		
0303	WDL1	130874	1					ARTR	1	ORTHACRI ME CI	40	2		
0302	WDL1	130874	1					ARTR	1	ORTHACRI ME CI	10	2		
0301	WDL1	130874	1					ARTR	1	ORTHACRI ME CI	40	1		
0301	WDL1	130874	1					ARTR	1	ORTHACRI ME CI	10	7		
0302	LER1	151074	1					ARTR		ORTHACRI ME CI	10	1	24.3	
0303	LER1	151074	1					ARTR		ORTHACRI ME CI	10	2	25.0	
0303	WDL1	180774	2					ARTR	1	ORTHACRI ME CI	40	10		
0303	WDL1	180774	2					ARTR	1	ORTHACRI ME CI	10	1		
0303	WDL1	180774	2					ARTR	2	ORTHACRI ME CI	40	16		
0303	WDL1	180774	2					ARTR	2	ORTHACRI ME CI	10	2		
0302	WDL1	180774	2					ARTR	1	ORTHACRI ME CI	40	1		
0302	WDL1	180774	1					ARTR	2	ORTHACRI ME CI	10	2		
0302	WDL1	180774	1					ARTR	2	ORTHACRI ME CI	40	5		
0301	WDL1	180774	1					ARTR	1	ORTHACRI ME CI	10	1		
0301	WDL1	180774	1					ARTR	1	ORTHACRI ME CI	40	6		
0302	UKS2	210775	2					ARTR		ORTHACRI ME CI	40	1	13.5	
0302	UKS2	210775	2					ARTR		ORTHACRI ME CI	40	1	14.5	
0301	WDL0	10374	1					ARTR	1	ORTHACRI ME EN	10	1		
0302	WDL0	10374	1					ARTR	2	ORTHACRI ME EN	40	2		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0301	WDL130674	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0302	WDL130674	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	3		
0302	WDL130674	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0303	WDL180774	2	2	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0303	WDL180774	2	2	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	2		
0303	WDL180774	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0303	WDL180774	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0302	WDL180774	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	40	1		
0301	LER210775	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	3		
0301	LER210775	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	24.4	
0303	WDL180774	1	1	1	1	1	1	5	ARTR	ORTHACRIOE	EN	10	1		
0301	WDL020574	2	1	1	1	1	1	1	APTR	ORTHACRIOE	EN	42	2		
0302	UKS020674	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	42	1		
0303	UKS030574	3	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	42	1		
0301	LER040774	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0301	UKS060674	4	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	42	1		
0303	WDL060674	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1		
0303	NEW130675	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	24.6	
0303	NEW130675	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	19.6	
0303	WDL210674	1	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	40	1		
0303	WDL210674	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	40	1		
0301	LER210775	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	32.0	
0301	LER210775	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	74.0	
0302	UKS210775	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	29.5	
0302	WDL010674	1	1	1	1	1	1	2	ARTR	ORTHACRIOE	EN	40	3		
0303	LER151074	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	1.4	
0303	LER151074	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	3.0	
0302	LER151074	2	1	1	1	1	1	1	ARTR	ORTHACRIOE	EN	10	1	6.7	
0301	LER121275	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1		
0301	WDL010674	2	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	6		
0301	WDL010674	1	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	13		
0301	LER021075	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	39	3.0	
0301	LER021075	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	2	4.2	
0301	LER021075	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	11	3.5	
0301	LER021075	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	12	2.2	
0301	LER021075	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	19	3.0	
0301	LER021075	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	3	3.5	
0301	UKS040774	2	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	15		
0301	LER050974	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	00	6		
0301	LER050974	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	00	6		
0301	LER060575	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	7	2.9	
0301	LER060575	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	3.6	
0301	WDL060674	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1		
0301	UKS060674	1	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	6		
0301	LER121275	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	1.4	
0301	LER130375	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	2.9	
0301	LER130375	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	5.5	
0301	LER130375	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	2	3.0	
0301	NEW130675	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	2	2.4	
0301	NEW130675	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	6	1.2	
0301	NEW130675	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	2	1.5	
0301	NEW130675	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	5	2.5	
0301	NEW130675	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	3	3.1	
0301	NEW130675	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	4.2	
0301	NEW130675	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	7	1.7	
0301	WDL130674	1	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	6		
0301	LER151074	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	00	7	1.3	
0301	WDL180774	1	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	2		
0301	WDL180774	2	1	1	1	1	1	5	CHVI	ORTHACRIOE	EN	00	3		
0301	WDL210674	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	6		
0301	WDL210674	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	7		
0301	LER210775	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	12	4.0	
0301	LER210775	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	2	3.7	
0301	LER210775	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	2.5	
0301	LER210775	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	4	3.2	
0301	LER210775	1	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	1	4.5	
0301	LER210775	2	1	1	1	1	1	1	CHVI	ORTHACRIOE	EN	10	15	2.7	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total	Number	Length (cm)	Identification
0301	LER	270875	2					CHVI		ARAN		10	2		5.5	
0301	LER	270875	1					CHVI		ARAN		10	1		1.5	
0301	LER	270875	1					CHVI		ARAN		10	1		2.7	
0301	LER	270875	1					CHVI		ARAN		10	1		3.5	
0301	LER	270875	1					CHVI		ARAN		10	1		1.9	
0301	LER	270875	1					CHVI		ARAN		10	1		2.5	
0301	LER	270875	1					CHVI		ARAN		10	1		2.7	
0301	LER	270875	1					CHVI		ARAN		10	3		2.0	
0301	LER	270875	2					CHVI		ARAN		10	1		2.5	
0301	LER	270875	2					CHVI		ARAN		10	1		4.8	
0301	LER	270875	2					CHVI		ARAN		10	1		1.8	
0301	LER	270974	1					CHVI		ARAN		40	19		2.5	
0301	LER	270974	2					CHVI		ARAN		40	35		3.5	
0301	LER	151074	2					CHVI		ARANCUB		10	1		5.0	74331
0301	LER	270974	1					5 CHVI		ARANCUB		10	1		3.2	
0301	LER	021075	2					CHVI		ARANSALT		10	2		3.8	
0301	LER	021075	1					CHVI		ARANSALT		10	3		4.0	
0301	LER	060575	1					CHVI		ARANSALT		40	1		2.0	
0301	LER	060575	1					CHVI		ARANSALT		10	1		3.2	
0301	LER	060575	2					CHVI		ARANSALT		10	1		3.0	
0301	LER	151074	1					CHVI		ARANSALT		10	4		1.8	
0301	LER	210775	1					CHVI		ARANSALT		10	1		3.9	
0301	LER	270875	2					CHVI		ARANSALT		10	2		4.0	
0301	LER	270974	1					CHVI		ARANSALT		10	1		4.0	
0301	LER	270974	1					5 CHVI		ARANSALT		10	2		2.5	74301
0301	LER	270974	2					CHVI		ARANSALT		10	2		2.6	
0301	LER	151074	1					CHVI		ARANTHOM		10	11		2.2	
0301	LER	151074	2					CHVI		ARANTHOM		10	26		1.9	74316
0301	LER	270974	2					CHVI		ARANTHOM		10	3		7.0	74302
0301	LER	270974	1					CHVI		ARANTHOM		10	3		3.2	
0301	UKS	040774	2					1 CHVI		COLECHRY		10	3			
0301	UKS	060674	1					1 CHVI		COLECHRY		10	1			
0301	LER	210775	2					CHVI		COLECHRY		10	1		6.3	
0301	LER	210775	1					CHVI		COLECHRY		10	1		2.4	
0301	LER	210775	2					CHVI		COLECHRY		10	1		2.8	
0301	LER	270974	2					CHVI		COLECHRY		10	1		3.0	74304
0301	NEW	130675	2					CHVI		COLECHRYPA		10	3		1.7	
0301	NEW	130675	1					CHVI		COLECHRYPA		10	6		2.8	
0301	LER	210775	2					CHVI		COLECLER		10	1		3.0	
0301	UKS	040774	2					5 CHVI		COLECOCC		10	2			
0301	LER	060575	2					CHVI		COLECOCC		40	1		1.0	
0301	NEW	130675	2					CHVI		COLECOCCI		10	1		4.2	
0301	LER	060575	1					CHVI		COLECURC		10	1		5.4	
0301	LER	060575	1					CHVI		COLECURC		10	3		4.7	
0301	LER	151074	2					CHVI		COLECURC		10	1		2.7	
0301	LER	130375	1					CHVI		COLECURCST LA		10	1		5.2	
0301	LER	130375	2					CHVI		COLECURCST LA		10	2		4.8	
0301	LER	021075	2					CHVI		COLEMELO		10	1		10.0	
0301	LER	060575	1					CHVI		COLEMELY		10	1		2.6	
0301	LER	060575	1					CHVI		COLESCARPA GR		10	1		16.2	
0301	LER	270974	2					CHVI		COLETENEEL HU		10	1		17.0	
0301	UKS	040774	2					8 CHVI		COLETENEEL MU		10	1			
0301	LER	060575	2					CHVI		DIPT		10	2		2.0	
0301	LER	151074	2					CHVI		DIPT		10	1		1.7	74330
0301	UKS	060674	1					1 CHVI		DIPTAGRO		10	2			
0301	LER	060575	2					CHVI		DIPTCHIR		10	1		2.0	
0301	UKS	060674	1					3 CHVI		DIPTCHIR		10	1			
0301	LER	151074	2					CHVI		DIPTCHLO		10	1		4.0	
0301	LER	151074	1					CHVI		DIPTEMPI		10	2		1.1	74308
0301	WDL	010874	1					3 CHVI		DIPTSCEN		10	1			
0301	UKS	060674	1					0 CHVI		DIPTSCIA		10	2			
0301	NEW	130675	2					CHVI		DIPTSCIA		10	1		2.8	
0301	WDL	010874	1					3 CHVI		DIPTTACH		10	1			
0301	LER	210775	2					CHVI		DIPTTACH		10	1		6.0	
0301	LER	060575	2					CHVI		DIPTTEPH		10	1		2.7	
0301	UKS	060674	1					3 CHVI		DIPTTEPH		10	1			

Data Type	Site	Initials	Date	Treatment	Trophic	Invertebrate	Life Stage	Total Number	Length (cm)	Identification Number
		Day	Month	Year	Shrub	Taxa				
0301	UK	06	06	74	1	CHVI	DIPITTHER	10	1	
0301	LEF	06	05	75	2	CHVI	DIPITTIPU	10	2	
0301	LER	02	70	974	1	CHVI	HEMICO4	10	1	
0301	LER	02	10	75	1	CHVI	HEMILYGA	10	7	
0301	LER	02	10	75	2	CHVI	HEMILYGA	10	15	
0301	LER	06	50	974	2	CHVI	HEMILYGA	10	4	
0301	LER	06	50	974	1	CHVI	HEMILYGA	10	3	
0301	NE	13	06	75	1	CHVI	HEMILYGA	40	1	
0301	LER	15	10	74	1	CHVI	HEMILYGA	10	1	
0301	LER	15	10	74	1	CHVI	HEMILYGA	10	10	
0301	LER	15	10	74	2	CHVI	HEMILYGA	10	17	
0301	LER	27	08	75	2	CHVI	HEMILYGA	10	1	
0301	LER	27	08	75	2	CHVI	HEMILYGA	10	1	
0301	LER	27	09	74	1	CHVI	HEMILYGA	10	1	
0301	LER	27	09	74	1	CHVI	HEMILYGA	10	14	
0301	LER	27	09	74	2	CHVI	HEMILYGA	40	1	
0301	LER	27	09	74	2	CHVI	HEMILYGA	10	37	
0301	LER	15	10	74	2	CHVI	HEMILYGA LY KA	10	3	
0301	WDL	10	10	74	1	2 CHVI	HEMIMIRI	10	5	
0301	WDL	10	10	74	2	2 CHVI	HEMIMIRI	10	1	
0301	WDL	10	10	74	2	2 CHVI	HEMIMIRI	40	1	
0301	LER	02	10	75	2	CHVI	HEMIMIRI	10	1	
0301	LER	02	10	75	1	CHVI	HEMIMIRI	10	3	
0301	LER	05	12	74	1	CHVI	HEMIMIRI	10	2	
0301	LER	05	12	74	2	CHVI	HEMIMIRI	10	2	
0301	LER	13	03	75	1	CHVI	HEMIMIRI	10	10	
0301	NE	13	06	75	2	CHVI	HEMIMIRI	10	2	
0301	NE	13	06	75	2	CHVI	HEMIMIRI	40	3	
0301	WDL	13	08	74	2	2 CHVI	HEMIMIRI	10	2	
0301	WDL	13	08	74	1	2 CHVI	HEMIMIRI	10	2	
0301	LER	15	10	74	2	CHVI	HEMIMIRI	4	2	
0301	LER	15	10	74	2	CHVI	HEMIMIRI	10	1	
0301	LER	15	10	74	2	CHVI	HEMIMIRI	10	1	
0301	LER	15	10	74	1	CHVI	HEMIMIRI	10	2	
0301	LER	15	10	74	1	CHVI	HEMIMIRI	40	3	
0301	WDL	18	07	74	2	2 CHVI	HEMIMIRI	10	1	
0301	LER	27	09	74	1	CHVI	HEMIMIRI	10	3	
0301	LER	27	09	74	1	CHVI	HEMIMIRI	10	4	
0301	LER	27	09	74	1	CHVI	HEMIMIRI	40	1	
0301	LER	27	09	74	2	CHVI	HEMIMIRI	10	6	
0301	LER	02	10	75	2	CHVI	HEMINABI	10	1	
0301	LER	02	10	75	2	CHVI	HEMINABI	10	3	
0301	LER	05	12	74	1	CHVI	HEMINABI	10	5	
0301	LER	05	12	74	2	CHVI	HEMINABI	10	2	
0301	NE	13	06	75	2	CHVI	HEMINABI	10	1	
0301	NE	13	06	75	2	CHVI	HEMINABI	40	4	
0301	NE	13	06	75	1	CHVI	HEMINABI	40	1	
0301	NE	13	06	75	1	CHVI	HEMINABI	10	3	
0301	LER	15	10	74	1	CHVI	HEMINABI	10	5	
0301	LER	15	10	74	2	CHVI	HEMINABI	10	6	
0301	LER	27	09	74	1	CHVI	HEMINABI	10	2	
0301	LER	06	50	974	1	CHVI	HEMIPENT	10	1	
0301	LER	06	05	75	2	CHVI	HEMIPYRR	10	1	
0301	WDL	06	06	74	2	CHVI	HEMIREDU	10	1	
0301	LER	27	09	74	2	CHVI	HEMIREDU	10	1	
0301	LER	02	10	75	1	CHVI	HEMISCUT	10	2	
0301	LER	15	10	74	1	CHVI	LONOCLEY	10	1	
0301	WDL	10	10	74	2	2 CHVI	LONOCAPHI	10	3	
0301	WDL	10	10	74	1	2 CHVI	LONOCAPHI	10	4	
0301	LER	06	51	274	1	CHVI	LONOCAPHI	10	2	
0301	LER	05	12	74	2	CHVI	LONOCAPHI	10	4	
0301	LER	06	05	75	2	CHVI	LONOCAPHI	10	3	
0301	LER	06	05	75	1	CHVI	LONOCAPHI	10	2	
0301	UK	06	06	74	1	2 CHVI	LONOCAPHI	40	1	
0301	NE	13	06	75	1	CHVI	LONOCAPHI	10	2	
0301	NE	13	06	75	2	CHVI	LONOCAPHI	10	5	

Data Type	Site	Initials	Day	Month	Year	Treatment	Trophic	Invertebrate	Lifestage	Total	Length (cm)	Identification
							Shrub	Taxa		Number		Number
0301	LER151074	2					CHVI	HOMOAPHI	10	3	1.1	
0301	LER151074	1					CHVI	HOMOAPHI	10	6	2.0	
0301	WDL180774	2					2 CHVI	HOMOAPHI	10	1		
0301	LEP021075	1					CHVI	HOMOCIC1	10	1	2.0	
0301	LER021075	2					CHVI	HOMOCIC1	10	1	6.3	
0301	JKS040774	2					2 CHVI	HOMOCIC1	10	3		
0301	LEP050974	1					CHVI	HOMOCIC1	10	2		
0301	LER060575	1					CHVI	HOMOCIC1	10	3	3.0	
0301	LER060575	2					CHVI	HOMOCIC1	10	1	3.5	
0301	LER060575	2					CHVI	HOMOCIC1	10	1	2.9	
0301	JKS060674	1					2 CHVI	HOMOCIC1	10	182		
0301	WDL060674	2					CHVI	HOMOCIC1	40	193		
0301	LER121275	1					CHVI	HOMOCIC1	10	1	2.1	
0301	NEW130675	2					CHVI	HOMOCIC1	40	1	3.0	
0301	NEW130675	2					CHVI	HOMOCIC1	10	9	2.0	
0301	NEW130675	2					CHVI	HOMOCIC1	10	37	2.7	
0301	NEW130675	2					CHVI	HOMOCIC1	10	1	4.1	
0301	NEW130675	2					CHVI	HOMOCIC1	40	4	2.0	
0301	NEW130675	1					CHVI	HOMOCIC1	10	2	2.0	
0301	NEW130675	1					CHVI	HOMOCIC1	10	28	2.5	
0301	NEW130675	1					CHVI	HOMOCIC1	40	1	1.7	
0301	WDL130674	1					2 CHVI	HOMOCIC1	10	1		
0301	LER151074	2					CHVI	HOMOCIC1	10	1	6.0	74324
0301	LER151074	2					CHVI	HOMOCIC1	10	2	2.8	74326
0301	LEP151074	2					CHVI	HOMOCIC1	10	3	3.2	74325
0301	LER151074	1					CHVI	HOMOCIC1	10	4	2.6	
0301	LER151074	1					CHVI	HOMOCIC1	10	1	1.9	
0301	WDL210674	2					CHVI	HOMOCIC1	10	8		
0301	WDL210674	1					CHVI	HOMOCIC1	10	20		
0301	LER210775	1					CHVI	HOMOCIC1	10	3	5.0	
0301	LEP210775	2					CHVI	HOMOCIC1	10	1	3.4	
0301	LEP270875	2					CHVI	HOMOCIC1	10	2	3.8	
0301	LEP270875	1					CHVI	HOMOCIC1	10	1	3.9	
0301	LEP270875	1					CHVI	HOMOCIC1	10	1	2.0	
0301	LEP270974	2					CHVI	HOMOCIC1	10	2	3.1	
0301	NEW130675	1					CHVI	HOMODICT	40	1	6.3	
0301	LER210775	1					CHVI	HOMODICT	40	1	5.0	
0301	LER060575	2					CHVI	HOMOPSYL	10	1	2.5	
0301	NEW130675	2					CHVI	HOMOPSYL	10	2	1.9	
0301	NEW130675	1					CHVI	HOMOPSYL	10	2	2.0	
0301	LER151074	2					CHVI	HOMOPSYL	10	2	1.3	74307
0301	LER151074	1					CHVI	HOMOPSYL	10	2	1.5	74307
0301	LEP021075	1					CHVI	HYMEBRAC	10	1	4.2	
0301	NEW130675	2					CHVI	HYMEBRAC	10	1	2.4	
0301	WDL210674	1					CHVI	HYMEBRAC	10	1		
0301	LER210775	2					CHVI	HYMEBRAC	10	1	5.2	
0301	WDL010874	1					3 CHVI	HYMECHAL	10	1		
0301	WDL010874	2					3 CHVI	HYMECHAL	10	1		
0301	LER021075	2					CHVI	HYMECHAL	10	3	1.5	
0301	WDL040774	1					3 CHVI	HYMECHAL	10	1		
0301	LEP050974	1					CHVI	HYMECHAL	10	1		
0301	NEW130675	2					CHVI	HYMECHAL	10	1	1.4	
0301	NEW130675	1					CHVI	HYMECHAL	10	1	3.5	
0301	WDL130874	2					3 CHVI	HYMECHAL	10	1		
0301	LER151074	1					CHVI	HYMECHAL	10	1	1.2	74315
0301	LER151074	1					CHVI	HYMECHAL	10	1	1.2	74314
0301	LER151074	1					CHVI	HYMECHAL	10	1	1.2	74313
0301	LER151074	1					CHVI	HYMECHAL	10	1	1.2	74312
0301	LER270875	2					CHVI	HYMECHAL	10	1	4.5	
0301	LER270875	1					CHVI	HYMECHAL	10	1	3.0	
0301	LER151074	1					CHVI	HYMECYNI	10	1	0.7	74311
0301	LER151074	2					CHVI	HYMECYNI	10	1	3.1	74328
0301	LER270974	1					CHVI	HYMECYNI	10	1	3.2	74303
0301	LER270974	2					CHVI	HYMECYNI	10	1	4.0	74303
0301	JKS060674	1					0 CHVI	HYMECYNI	10	1		
0301	WDL210674	1					CHVI	HYMEENCY	10	1		

Data Type	Site	Initials	Day	Month	Year	Treatment	Trophic	Invertebrate	Lifestage	Total	Length (cm)	Identification
							Shrub	Taxa		Number		
0301WDL040774	1						CHVI	HYMEFORM	10	1		
0301LER270974	1						CHVI	HYMEFORM	10	2	4.0	
0301JXS060674	1						3 CHVI	HYMEICHN	10	2		
0301LER130375	1						CHVI	HYMEICHN	10	1	2.5	
0301LER151074	1						CHVI	HYMEICHN	10	1	7.0	
0301WDL210674	1						CHVI	HYMEICHN	10	2		
0301WDL210674	2						CHVI	HYMEICHN	10	1		
0301LER210775	2						CHVI	HYMEICHN	10	1	2.2	
0301LER270875	1						CHVI	HYMEICHN	10	1	5.8	
0301WDL060674	2						CHVI	HYMEPERI	10	1		
0301WDL130874	2						3 CHVI	HYMEPOMP	10	1		
0301NEW130675	2						CHVI	HYMEPTER	10	1	1.6	
0301LER210775	2						CHVI	HYMEPTER	10	1	3.2	
0301WDL010674	2						3 CHVI	HYMESPHE	10	1		
0301WDL060674	2						CHVI	HYMESPHE	10	3		
0301LER270875	1						CHVI	HYMESPHE	10	1	1.5	
0301LER270875	2						CHVI	HYMESPHE	10	1	12.4	
0301LER270974	2						CHVI	HYMESPHE	10	1	11.4	
0301WDL010674	1						3 CHVI	HYMETIPH	10	2		
0301LER021075	1						CHVI	LEPI	40	1	8.8	
0301LER021075	2						CHVI	LEPI	10	1	6.0	
0301LER060575	1						CHVI	LEPI	40	2	6.4	
0301LER270974	1						CHVI	LEPI	10	1	10.5	
0301WDL010674	2						1 CHVI	LEPIGEOM	40	7		
0301WDL010674	1						1 CHVI	LEPIGEOM	40	7		
0301LER021075	2						CHVI	LEPIGEOM	10	1	10.0	
0301WDL040774	1						1 CHVI	LEPIGEOM	40	3		
0301JXS040774	2						1 CHVI	LEPIGEOM	40	10		
0301LER050974	1						CHVI	LEPIGEOM	40	3		
0301LER051274	2						CHVI	LEPIGEOM	40	1	11.0	
0301LER051274	1						CHVI	LEPIGEOM	40	1	14.8	
0301JXS060674	1						1 CHVI	LEPIGEOM	42	2		
0301NEW130675	1						CHVI	LEPIGEOM	40	5	12.2	
0301NEW130675	1						CHVI	LEPIGEOM	40	8	10.2	
0301NEW130675	1						CHVI	LEPIGEOM	40	1	25.3	
0301NEW130675	2						CHVI	LEPIGEOM	40	1	16.6	
0301NEW130675	2						CHVI	LEPIGEOM	40	2	14.2	
0301NEW130675	2						CHVI	LEPIGEOM	40	2	6.4	
0301NEW130675	2						CHVI	LEPIGEOM	40	9	11.2	
0301WDL130874	2						1 CHVI	LEPIGEOM	40	4		
0301WDL130874	1						1 CHVI	LEPIGEOM	40	7		
0301LER151074	1						CHVI	LEPIGEOM	40	1	8.0	
0301LER151074	1						CHVI	LEPIGEOM	40	3	16.7	
0301LER151074	2						CHVI	LEPIGEOM	40	2	17.5	74333
0301LER151074	2						CHVI	LEPIGEOM	40	4	9.5	
0301WDL180774	2						1 CHVI	LEPIGEOM	40	1		
0301WDL210674	2						CHVI	LEPIGEOM	40	3		
0301WDL210674	1						CHVI	LEPIGEOM	40	3		
0301LER210775	2						CHVI	LEPIGEOM	40	3	10.0	
0301LER210775	1						CHVI	LEPIGEOM	40	3	13.0	
0301LER270974	1						1 CHVI	LEPIGEOM	40	3	11.0	
0301JXS060674	1						1 CHVI	LEPINOCT	41	1		
0301LER151074	2						CHVI	LEPINOCT	40	2	8.6	74332
0301LER151074	1						CHVI	LEPINOCT	40	1	12.5	74306
0301LER021075	1						CHVI	LEPIPYRA	10	1	14.0	
0301LER021075	1						CHVI	LEPIPYRA	10	1	5.6	
0301LER151074	1						CHVI	NEURCHRYCH CO	10	1	8.8	
0301LER151074	2						CHVI	NEURCHRYCH CA	10	2	8.6	
0301LER270875	2						CHVI	NEURCHRYCH CO	10	1	9.7	
0301LER060575	2						CHVI	NEURRAPH	10	1	8.7	
0301WDL040774	1						1 CHVI	ORTHACRI	40	18		
0301JXS040774	2						1 CHVI	ORTHACRI	40	48		
0301JXS040774	2						1 CHVI	ORTHACRI	10	4		
0301WDL060674	2						CHVI	ORTHACRI	40	46		
0301JXS060674	1						1 CHVI	ORTHACRI	41	32		
0301NEW130675	1						CHVI	ORTHACRI	40	10	8.0	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total	Number	Length (cm)	Identification
0301	NEW1	30675	1					CHVI		ORTHACRI		40	9		9.5	
0301	NEW1	30675	1					CHVI		ORTHACRI		40	1		11.0	
0301	NEW1	30675	1					CHVI		ORTHACRI		40	5		6.2	
0301	NEW1	30675	2					CHVI		ORTHACRI		40	8		8.6	
0301	NEW1	30675	2					CHVI		ORTHACRI		40	3		11.6	
0301	NEW1	30675	2					CHVI		ORTHACRI		40	23		6.8	
0301	WDL2	10674	1					CHVI		ORTHACRI		40	67			
0301	WDL2	10674	2					CHVI		ORTHACRI		40	98			
0301	LER2	10775	2					CHVI		ORTHACRI		40	3		16.5	
0301	LER2	10775	2					CHVI		ORTHACRI		40	1		10.5	
0301	LER2	10775	1					CHVI		ORTHACRI		40	3		19.0	
0301	LER2	10775	1					CHVI		ORTHACRI		40	2		21.3	
0301	LER2	10775	1					CHVI		ORTHACRI		40	1		12.5	
0301	LER2	70875	2					CHVI		ORTHACRI		10	3		25.0	
0301	LER0	50974	1					CHVI		ORTHACRI AG	DE	10	1			
0301	WDL0	10874	2					1 CHVI		ORTHACRI HE	VI	10	3			
0301	WDL0	10874	1					1 CHVI		ORTHACRI HE	VI	10	1			
0301	LER0	21075	2					CHVI		ORTHACRI HE	VI	10	1	24.1		
0301	WDL1	130874	1					1 CHVI		ORTHACRI HE	VI	10	2			
0301	WDL1	180774	1					1 CHVI		ORTHACRI HE	VI	10	1			
0301	WDL1	180774	1					1 CHVI		ORTHACRI HE	VI	10	1			
0301	WDL1	180774	2					1 CHVI		ORTHACRI HE	VI	40	6			
0301	WDL1	180774	2					1 CHVI		ORTHACRI HE	VI	10	9			
0301	LER2	10775	2					CHVI		ORTHACRI HE	VI	10	1		22.7	
0301	LER2	10775	2					CHVI		ORTHACRI HE	VI	10	1		17.2	
0301	LER2	10775	1					CHVI		ORTHACRI HE	VI	10	1		25.5	
0301	LER2	70875	1					CHVI		ORTHACRI HE	VI	10	1		22.7	
0301	WDL0	10874	1					1 CHVI		ORTHACRI ME	PA	10	1			
0301	WDL0	10874	1					1 CHVI		ORTHACRI ME	PA	40	1			
0301	WDL0	10874	1					1 CHVI		ORTHACRI ME	CI	40	1			
0301	WDL0	10874	2					1 CHVI		ORTHACRI ME	CI	40	1			
0301	LER0	21075	2					CHVI		ORTHACRI ME	CI	10	1	26.3		
0301	WDL1	130874	2					1 CHVI		ORTHACRI ME	CI	10	1			
0301	WDL1	180774	2					1 CHVI		ORTHACRI ME	PA	10	1			
0301	WDL1	180774	2					1 CHVI		ORTHACRI ME	CI	40	2			
0301	WDL1	180774	1					1 CHVI		ORTHACRI ME	PA	10	1			
0301	WDL1	180774	2					1 CHVI		ORTHACRI ME	CI	10	1			
0301	LER2	70875	1					CHVI		ORTHACRI ME	CI	10	4		24.3	
0301	LER0	21075	1					CHVI		ORTHACRI ME	CI	10	1		29.3	
0301	UKS0	40774	2					1 CHVI		ORTHACRI ME	CI	10	1			
0301	WDL0	40774	1					1 CHVI		ORTHACRI ME	CI	40	1			
0301	LER0	50974	1					CHVI		ORTHACRI ME	CI	10	1			
0301	LER0	60575	1					CHVI		ORTHACRI ME	CI	40	1		8.2	
0301	LER0	60575	1					CHVI		ORTHACRI ME	CI	40	1		6.6	
0301	UKS0	60674	1					1 CHVI		ORTHACRI ME	CI	42	1			
0301	WDL0	60674	2					CHVI		ORTHACRI ME	CI	40	1			
0301	WDL2	10674	1					CHVI		ORTHACRI ME	CI	40	2			
0301	LER0	50974	1					CHVI		PSOCLIPO		10	1			
0301	UKS0	60674	1					2 CHVI		THY2THRI		10	1			
0303	LER0	10674	2					5 GRSP		ARAN		00	4			
0303	LER0	10674	1					5 GRSP		ARAN		00	5			
0303	WDL0	40774	2					5 GRSP		ARAN		00	2			
0303	LER0	50974	1					GRSP		ARAN		40	1			
0303	LER0	60575	1					GRSP		ARAN		10	1		2.7	
0303	LER0	60575	1					GRSP		ARAN		10	1		6.5	
0303	LER0	60575	2					GRSP		ARAN		10	1		4.1	
0303	LER0	60575	2					GRSP		ARAN		10	2		4.0	
0303	LER0	60575	2					GRSP		ARAN		10	1		3.2	
0303	UKS0	60674	1					5 GRSP		ARAN		00	1			
0303	NEW1	30675	1					1 GRSP		ARAN		10	1		5.8	
0303	WDL1	130874	1					5 GRSP		ARAN		00	1			
0303	WDL1	130874	2					5 GRSP		ARAN		00	1			
0303	WDL1	180774	2					GRSP		ARAN		00	2			
0303	WDL1	180774	1					5 GRSP		ARAN		00	2			
0303	WDL2	10674	2					GRSP		ARAN		10	2			
0303	WDL2	10674	1					GRSP		ARAN		10	1			

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0303JKS	210775	2						GRSP	ARAN			10	1	3.2	
0303JKS	210775	2						GRSP	ARAN			10	1	1.4	
0303JKS	210775	2						GRSP	ARAN			10	2	4.2	
0303JKS	210775	2						GRSP	ARAN			10	2	2.2	
0303JKS	210775	2						GRSP	ARAN			10	1	2.7	
0303JKS	210775	1						GRSP	ARAN			10	1		
0303JKS	210775	1						GRSP	ARAN			10	3	1.4	
0303JKS	210775	1						GRSP	ARAN			10	1	2.1	
0303JKS	210775	1						GRSP	ARAN			10	21	3.0	
0303JKS	210775	2						GPSP	ARAN			10	4	3.5	
0303JKS	210775	1						GRSP	ARAN			10	2	2.3	
0303JKS	210775	1						GRSP	ARAN			10	2	2.6	
0303JKS	210775	2						GRSP	ARAN			10	2	3.8	
0303JKS	210775	1						GRSP	ARAN			10	3	3.5	
0303JKS	210775	1						GRSP	ARAN			10	3	3.7	
0303JKS	210775	1						GRSP	ARAN			10	2	3.2	
0303JKS	210775	1						GRSP	ARAN			10	1	4.5	
0303JKS	210775	1						GRSP	ARAN			10	1	3.4	
0303JKS	210775	1						GRSP	ARAN			10	2	4.0	
0303WDL	180774	1						1 GRSP	COLECARA			10	1		
0303WDL	040774	2						1 GRSP	COLECHRY			10	4		
0303LER	040774	1						1 GRSP	COLECHRY			10	3		
0303LER	050974	2						GRSP	COLECHRY			10	4		
0303LER	050974	1						GRSP	COLECHRY			10	1		
0303LER	060575	2						GRSP	COLECHRY			10	7	4.0	
0303JKS	060674	1						1 GRSP	COLECHRY			10	1		
0303NEW	130675	1						1 GRSP	COLECHRY			10	1	3.4	
0303WDL	130874	2						1 GRSP	COLECHRY			10	1		
0303WDL	130874	1						1 GRSP	COLECHRY			10	5		
0303WDL	180774	2						GRSP	COLECHRY			10	3		
0303JKS	210775	2						GRSP	COLECHRY			10	3	3.6	
0303JKS	210775	1						GRSP	COLECHRY			10	4	3.4	
0303JKS	210775	2						GRSP	COLECHRY			10	6	3.9	
0303JKS	210775	1						GRSP	COLECHRY			10	2	3.6	
0303LER	010874	1						1 GRSP	COLECHRYMO			10	5		
0303LER	010874	2						1 GRSP	COLECHRYMO			10	2		
0303LER	060575	1						GRSP	COLECHRYMO			10	3	3.7	
0303JKS	210775	2						GRSP	COLECLER			10	1	3.5	
0303LER	060575	1						GRSP	COLECURC			10	3	4.9	
0303LER	060575	1						GRSP	COLECURC			10	2	4.2	
0303LER	060575	1						GRSP	COLECURC			10	1	6.1	
0303LER	060575	1						GRSP	COLECURC			10	1	2.5	
0303LER	060575	2						GRSP	COLECURC			10	1	4.7	
0303LER	060575	2						GRSP	COLECURC			10	3	3.0	
0303LER	110375	1						GRSP	COLECURCCE	AR		10	13	3.0	
0303LER	110375	2						GRSP	COLECURCCE	AR		10	9	2.8	
0303LER	110375	1						GRSP	COLECURCST	LA		10	2	4.4	
0303LER	110375	2						GRSP	COLECURCST	LA		10	4	4.7	
0303WDL	130874	1						1 GRSP	COLEMEL			10	1		
0303LER	060575	2						GRSP	COLEMELY			10	1	3.2	
0303LER	060575	2						GRSP	COLEMELY			10	3	2.8	
0303LER	060575	1						GRSP	COLEMELY			10	7	3.4	
0303JKS	060674	1						1 GRSP	DIPTAGRO			10	1		
0303WDL	060674	2						GPSP	DIPTBOMB			10	1		
0303WDL	130874	2						3 GRSP	DIPTBOMB			10	1		
0303WDL	130874	1						GRSP	DIPTBOMB			10	1		
0303LER	010874	2						GRSP	DIPTBOMBMY			10	1		
0303LER	010874	1						GRSP	DIPTBOMBMY			10	1		
0303LER	060575	1						GPSP	DIPTCHIR			10	1	1.7	
0303NEW	130675	1						GRSP	DIPTCHIR			10	1	2.7	
0303WDL	130874	2						GRSP	DIPTCHLO			10	1		
0303WDL	040774	2						3 GPSP	DIPTSCEN			10	1		
0303LER	050974	2						GRSP	DIPTSCEN			10	1		
0303LER	050974	1						GRSP	DIPTSCEN			10	1		
0303NEW	130675	2						GRSP	DIPTSCEN	SC		10	1	4.1	
0303WDL	130874	2						3 GRSP	DIPTSCEN			10	1		

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate Taxa	Lifestage	Total Number	Length (cm)	Identification Number
0303	WDL060674	2						GRSP		DIPTSCIA	10	1		
0303	JKS060674	1						0 GRSP		DIPTSCIA	10	1		
0303	LER010874	1						GRSP		DIPTSPHA	10	1		
0303	LER040774	1						3 GRSP		DIPTTACH	10	1		
0303	WDL210674	1						GRSP		DIPTTEPH	10	1		
0303	JKS060674	1						0 GRSP		DIPTTHER	10	1		
0303	NEW130675	2						GRSP		DIPTTHER	10	1		
0303	NEW130675	1						1 GRSP		HEMICORE	40	1	6.2	
0303	LER010874	1						2 GRSP		HEMILYGA	41	1	3.3	
0303	LER050974	1						GRSP		HEMILYGA	10	1		
0303	NEW130675	1						1 GRSP		HEMILYGA	10	1	3.9	
0303	JKS060674	1						2 GRSP		HEMIMIRI	10	1		
0303	WDL060674	2						GRSP		HEMIMIRI	10	3		
0303	NEW130675	2						GRSP		HEMIMIRI	10	1	4.3	
0303	LER040774	1						2 GRSP		HEMIPENT	41	1		
0303	LER040774	1						2 GRSP		HEMIPENT	10	1		
0303	NEW130675	1						1 GRSP		HEMIPENT	40	1	9.9	
0303	NEW130675	2						GRSP		HEMIPENT	40	4	3.1	
0303	NEW130675	2						GRSP		HEMIPENT	40	1	6.2	
0303	NEW130675	2						GRSP		HEMIPENT	40	1	4.5	
0303	NEW130675	2						GRSP		HEMIPENT	10	1	6.2	
0303	NEW130675	1						1 GRSP		HEMIPENT	40	1	5.2	
0303	NEW130675	1						1 GRSP		HEMIPENT	40	1	4.5	
0303	WDL180774	2						GRSP		HEMIPENT	40	2		
0303	WDL180774	1						2 GRSP		HEMIPENT	10	1		
0303	JKS210775	1						GRSP		HEMIREDU	40	1	9.6	
0303	LER010874	2						2 GRSP		HOMOAPHI	10	8		
0303	LER060575	1						GRSP		HOMOAPHI	10	1	1.0	
0303	LER060575	1						GRSP		HOMOAPHI	10	1	1.3	
0303	LER010874	1						2 GRSP		HOMOCIC1	10	1		
0303	LER050974	1						GRSP		HOMOCIC1	10	3		
0303	LER050974	2						GRSP		HOMOCIC1	10	1		
0303	LER060575	1						GRSP		HOMOCIC1	10	1	2.6	
0303	LER060575	2						GRSP		HOMOCIC1	10	2	3.0	
0303	WDL060674	2						GRSP		HOMOCIC1	10	2		
0303	NEW130675	1						1 GRSP		HOMOCIC1	10	3	2.8	
0303	WDL210674	2						GRSP		HOMOCIC1	10	1		
0303	NEW130675	2						GRSP		HYME	10	1	3.6	
0303	LER060575	2						GRSP		HYMEBRAC	10	1	1.2	
0303	WDL210674	2						GRSP		HYMEBRAC	10	1		
0303	NEW130675	2						GRSP		HYMECHAL	10	1	4.5	
0303	NEW130675	1						1 GRSP		HYMECHAL	10	2	4.3	
0303	WDL190774	2						GRSP		HYMECHAL	10	1		
0303	WDL210674	2						GRSP		HYMECHAL	10	2		
0303	JKS210775	2						GRSP		HYMECHAL	10	1	1.8	
0303	WDL130874	2						3 GRSP		HYMECYN1	10	1		
0303	WDL210674	1						GRSP		HYMEENCY	10	2		
0303	NEW130675	1						1 GRSP		HYMEEURY	10	1	2.9	
0303	LER040774	1						7 GRSP		HYMEFORM	10	1		
0303	JKS210775	1						GRSP		HYMEFORM	10	1	3.2	
0303	LER050974	1						GRSP		HYMEFORMFO	10	1		
0303	LER060575	1						GRSP		HYMEHALI	10	2	5.0	
0303	JKS060674	1						3 GRSP		HYMEHALI	10	1		
0303	NEW130675	1						1 GRSP		HYMEICHN	10	1	11.6	
0303	WDL040774	2						3 GRSP		HYMEPERI	10	1		
0303	WDL130874	2						3 GRSP		HYMESPHE	10	1		
0303	LER010974	1						1 GRSP		LEPI	40	2		
0303	NEW130675	2						GRSP		LEPI	40	1	2.0	
0303	WDL060674	2						GRSP		LEPIGEOM	40	1		
0303	NEW130675	2						GRSP		LEPIGEOM	40	1	18.2	
0303	NEW130675	2						GRSP		LEPIGEOM	40	1	16.1	
0303	NEW130675	2						GRSP		LEPIGEOM	40	1	17.3	
0303	NEW130675	1						1 GRSP		LEPIGEOM	40	1	19.7	
0303	NEW130675	1						1 GRSP		LEPIGEOM	40	2	15.0	
0303	NEW130675	1						1 GRSP		LEPIGEOM	40	2	10.2	
0303	NEW130675	2						GRSP		LEPIGEOM	40	1	11.1	

Data Type	Site	Initials	Day	Month	Year	Date	Treatment	Trophic	Shrub	Invertebrate	Life stage	Total Number	Length (cm)	Identification Number
0303	NEW	130675	2					GRSP		LEPIGEOM	40	1	9.5	
0303	WDL	210674	1					GRSP		LEPIGEOM	40	1		
0303	LER	060575	1					GRSP		LEPINOCT	40	2	14.1	
0303	LER	060575	2					GRSP		LEPINOCT	40	1	24.9	
0303	LER	060575	2					GRSP		LEPINOCT	40	3	14.2	
0303	LER	060575	2					GRSP		NEURRAPH	10	1	7.1	
0303	WDL	040774	2					1 GRSP		ORTHACRI	10	2		
0303	LER	040774	1					1 GRSP		ORTHACRI	10	4		
0303	LER	040774	1					1 GRSP		ORTHACRI	43	5		
0303	WDL	060674	2					GRSP		ORTHACRI	40	6		
0303	JK	060674	1					1 GRSP		ORTHACRI	41	1		
0303	JK	060674	1					1 GRSP		ORTHACRI	42	3		
0303	NEW	130675	2					GRSP		ORTHACRI	40	2	10.2	
0303	NEW	130675	2					GRSP		ORTHACRI	40	2	9.0	
0303	NEW	130675	1				1	GRSP		ORTHACRI	40	8	8.0	
0303	NEW	130675	2					GRSP		ORTHACRI	40	1	11.2	
0303	WDL	210674	2					GRSP		ORTHACRI	40	11		
0303	WDL	210674	1					GRSP		ORTHACRI	40	10		
0303	JK	0210775	1					GRSP		ORTHACRI	40	1	14.4	
0303	JK	0210775	2					GRSP		ORTHACRI	40	1	19.2	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	10	1	23.4	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	10	1	24.9	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	1	12.8	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	1	11.0	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	2	15.8	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	1	19.7	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	10	1	22.6	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	1	21.7	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	1	19.3	
0303	JK	0210775	2					GRSP		ORTHACRIMO CI	40	2	17.7	
0303	LER	010674	1					1 GRSP		ORTHACRIMO CI	10	1		
0303	LER	010674	2					1 GRSP		ORTHACRIMO CI	10	1		
0303	WDL	130774	2					GRSP		ORTHACRIMO CI	40	2		
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	16.0	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	12.8	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	20.0	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	10	1	22.4	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	20.6	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	18.9	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	40	1	16.9	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	10	1	22.0	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	10	1	22.3	
0303	JK	0210775	1					GRSP		ORTHACRIMO CI	10	1	24.8	
0303	WDL	140774	2					GRSP		ORTHACRIMO CI	10	1		
0303	WDL	140774	1					1 GRSP		ORTHACRIMO CI	10	1		
0303	WDL	210674	1					GRSP		ORTHACRIMO CI	40	1		
0303	JK	0210775	1					GRSP		TRICHYD1	10	1	6.6	

Data Type	Site	Initials	Date	Treatment	Trophic	Invertebrate	Lifestage	Total Number	Length (cm)	Identification Number
		Day	Month	Year	Shrub	Taxa				
0303	LER	270974	2		ARTR	HEMINABI	10	2	6.8	
0303	LER	021075	1		ARTR	HEMIPENT	10		13.6	
0301	WDL	060674	2		ARTR	HEMIPENT	40	1		
0303	LER	021075	1		ARTR	HEMIPENT	10	1	6.4	
0303	LER	270974	2		ARTR	HEMIPENT	10	1	12.7	
0301	LER	270974	1		2 ARTR	HEMIPENT	10	1	13.3	
0303	LER	060575	1		ARTR	HEMIPYRR	40	2	3.6	
0303	WDL	010874	1		5 ARTR	HEMIREDU	10	1		
0302	WDL	010874	1		5 ARTR	HEMIREDU	10	1		
0303	LER	050974	1		ARTR	HEMISCUT	10	1		
0303	LER	021075	2		ARTR	HEMISCUT	10	1	6.4	
0301	LER	051274	1		ARTR	HOMO	10	1	0.8	
0302	LER	051274	2		ARTR	HOMO	10	8	1.2	
0302	WDL	010874	1		2 ARTR	HOMOAPHI	10	2		
0301	WDL	010874	2		2 ARTR	HOMOAPHI	10	4		
0302	WDL	010874	2		2 ARTR	HOMOAPHI	10	8		
0301	WDL	010874	1		2 ARTR	HOMOAPHI	10	6		
0301	WDL	020574	4		2 ARTR	HOMOAPHI	10	19		
0301	LER	020574	3		2 ARTR	HOMOAPHI	40	12	1.2	
0302	WDL	020574	4		ARTR	HOMOAPHI	10	47		
0301	WDL	020574	4		ARTR	HOMOAPHI	10	42		
0302	WDL	020574	2		ARTR	HOMOAPHI	10	21		
0301	WDL	020574	2		2 ARTR	HOMOAPHI	10	23		
0301	WDL	020574	1		2 ARTR	HOMOAPHI	10	14		
0302	UKS	020674	1		2 ARTR	HOMOAPHI	10	1		
0302	UKS	020674	1		2 ARTR	HOMOAPHI	40	11		
0303	WDL	030574	4		2 ARTR	HOMOAPHI	10	42		
0303	WDL	030574	1		ARTR	HOMOAPHI	10	56		
0303	UKS	030574	3		2 ARTR	HOMOAPHI	10	1		
0303	UKS	030574	3		2 ARTR	HOMOAPHI	40	31		
0303	WDL	030574	2		ARTR	HOMOAPHI	10	37		
0301	WDL	040774	1		2 ARTR	HOMOAPHI	10	8		
0302	UKS	040774	1		2 ARTR	HOMOAPHI	40	17		
0303	WDL	040774	1		2 ARTR	HOMOAPHI	40	6		
0303	WDL	040774	2		2 ARTR	HOMOAPHI	10	1		
0301	LER	040774	2		2 ARTR	HOMOAPHI	10	1		
0302	LER	050675	2		ARTR	HOMOAPHI	10	4	1.0	
0303	LER	051274	1		ARTR	HOMOAPHI	10	34	1.0	
0302	LER	051274	1		ARTR	HOMOAPHI	10	8	1.3	
0301	LER	051274	2		ARTR	HOMOAPHI	10	25	1.0	
0303	LER	051274	2		ARTR	HOMOAPHI	10	17	1.0	
0301	LER	051274	2		ARTR	HOMOAPHI	10	2	1.3	
0301	LER	051274	1		ARTR	HOMOAPHI	10	38	0.9	
0303	LER	060575	1		ARTR	HOMOAPHI	10	1	1.3	
0303	LER	060575	1		ARTR	HOMOAPHI	10	7	1.1	
0302	LER	060575	1		ARTR	HOMOAPHI	10	7	1.0	
0302	LER	060575	1		ARTR	HOMOAPHI	10	2	0.5	
0302	LER	060575	1		ARTR	HOMOAPHI	10	2	0.9	
0301	LER	060575	1		ARTR	HOMOAPHI	10	7	1.4	
0301	LER	060575	2		ARTR	HOMOAPHI	10	15	1.0	
0303	LER	060575	2		ARTR	HOMOAPHI	10	29	1.2	
0301	WDL	060674	3		2 ARTR	HOMOAPHI	10	3		
0301	UKS	060674	4		2 ARTR	HOMOAPHI	43	2		
0301	UKS	060674	1		2 ARTR	HOMOAPHI	10	2		
0301	UKS	060674	1		2 ARTR	HOMOAPHI	40	22		
0302	UKS	060674	1		2 ARTR	HOMOAPHI	42	2		
0303	UKS	060674	1		2 ARTR	HOMOAPHI	10	3		
0303	UKS	060674	1		2 ARTR	HOMOAPHI	40	10		
0303	WDL	060674	2		2 ARTR	HOMOAPHI	10	5		
0302	WDL	060674	2		ARTR	HOMOAPHI	10	3		
0301	LER	121275	2		ARTR	HOMOAPHI	10	2	1.6	
0301	NEW	130675	2		ARTR	HOMOAPHI	10	8	1.1	
0302	NEW	130675	2		2 ARTR	HOMOAPHI	10	1	1.5	
0303	NEW	130675	1		ARTR	HOMOAPHI	10	1	1.3	
0303	WDL	130874	2		2 ARTR	HOMOAPHI	10	1		
0302	WDL	130874	1		2 ARTR	HOMOAPHI	10	3		

NOTES

¹See Figure 2 for a list of trophic levels.

²ARTR = sagebrush; CHVI = rabbitbrush; GRSP = hopsage.

³Invertebrate taxa codes consist of first four letters of order and family names.

⁴See Figure 2 for a list of lifestage codes.

⁵The identification number was used during sample processing.

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