

County _____ Date _____

Location (Latitude/Longitude or Township/Range/Section):

Habitat type: Rangeland _____
Disturbed (roadside, cropland, CRP) _____

Sample Number	Lower Stop Total	Cumulative Infested Total	Upper Stop Total
1			--
2	--		--
3	--		--
4	0		4
5	0		5
6	1		6
7	1		7
8	1		7
9	1		8
10	2		9
11	2		10
12	2		10
13	3		11
14	3		12
15	3		12
16	4		13
17	4		14
18	4		14
19	5		15
20	5		16

County _____ Date _____

1998 Grasshopper Survey Form

Developed by DE Legg & JA Lockwood; Entomology Section, Univ. Wyoming

Grasshoppers should be sampled if:

- 1) Your location meets the criteria indicated on your county map
- 2) The date is before August 10
- 3) The temperature is 60 to 95 °F
- 4) The wind is <15 mph
- 5) The sky is clear to partly cloudy
- 6) The vegetation is not wet (a light dew is acceptable)

Sampling Protocol (to determine if there are ≥ 14 grasshoppers/yard²):

- 1) Practice visualizing 1-ft² circular areas using a standard hoop or ring, and refresh your perception frequently using a hoop or ring.
- 2) Travel to a grid point appropriate for the area you are sampling (see historical infestation map), and record your location and habitat type.
- 3) Visualize a 1-ft² (=13½ in. diameter) sampling unit 10 ft in front of you, taking care to avoid casting a shadow onto the area.
- 4) Approach the sampling unit and determine if there are 2 or more grasshoppers within the area. You do NOT need to count the grasshoppers — only determine if there are at least 2 grasshoppers.
- 5) Include only grasshoppers that originated within the sampling unit -- not those that might jump into the area. Be sure to completely disturb the area after you reach the sampling unit (if less than 2 grasshoppers were seen) to flush any remaining individuals.
- 6) If you saw at least 2 grasshoppers, **add 1** to the cumulative infested total for the previous sample and mark this in the cumulative infested total column that corresponds to your current sample number. If you saw 0 or 1 grasshopper, then **add 0** to the cumulative infested total .
- 7) Compare the cumulative infested total to the upper and lower stop values. If the cumulative infested total is **less than or equal to the lower** stop value *or* if the cumulative infested total is **greater than or equal to the upper** stop value, your sampling is complete at that site.
- 8) If the cumulative infested total is between the lower and upper stop values, continue sampling by repeated steps 3-7 above. If you have taken 20 samples without reaching the lower or upper stop values, you should terminate sampling.

*If you have any question concerning this method, please call
Jeff Lockwood (307) 766-4260 or David Legg (307) 766-3369*

Return completed forms to: JA Lockwood, Entomology Section,
University of Wyoming, Laramie, WY 82071-3354

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