

## The Critical Period Weed Sampling Sheet

Date:  
Property:

Recorder:  
Field:

Assessment:

Large broadleaf  
weeds

Number per 50 m of row

<5	5 - 50	50 - 500	>500
1	2	3	4

0-50 m				
50-100 m				
100-150 m				
150-200 m				
200-250 m				
250-200 m				
200-150 m				
150-100 m				
100-50 m				
50 - 0 m				

**Large broadleaf** – Noogoora burrs,  
thornapples, sesbania & budda pea  
**Medium broadleaf** – all other  
broadleaf weeds  
**Grasses** – grasses and all grass like  
weeds

Sum

—	—	—	—	Total
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Medium broadleaf  
weeds

<5	5 - 50	50 - 500	>500
1	2	3	4

0-50 m				
50-100 m				
100-150 m				
150-200 m				
200-250 m				
250-200 m				
200-150 m				
150-100 m				
100-50 m				
50 - 0 m				

Sum

—	—	—	—	Total
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Grasses

<5	5 - 50	50 - 500	>500
1	2	3	4

0-50 m				
50-100 m				
100-150 m				
150-200 m				
200-250 m				
250-200 m				
200-150 m				
150-100 m				
100-50 m				
50 - 0 m				

Sum

—	—	—	—	Total
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Assessment score

1	2	3	4	5
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Large broadleaf

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Medium broadleaf

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Grasses

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Assessment summary

1	2	3	4	5	Average
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Large broadleaf

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Medium broadleaf

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Grasses

					—
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Assessment score	Weed density
1	0.006
2	0.008
3	0.010
4	0.013
5	0.016
6	0.020
7	0.025
8	0.032
9	0.040
10	0.05
11	0.063
12	0.079
13	0.10
14	0.13
15	0.16
16	0.20
17	0.25
18	0.32
19	0.40
20	0.5
21	0.63
22	0.79
23	1.00
24	1.26
25	1.58
26	1.99
27	2.51
28	3.15
29	3.97
30	5
31	6.29
32	7.92
33	10
34	12.6
35	15.8
36	19.9
37	25.1
38	31.5
39	39.7
40	50

## Examples of Large Weeds



Noogoora burr complex:  
Italian cockleburr, Californian burr  
and Noogoora burr (L to R)



Thornapple complex:  
common thornapple,  
fierce thornapple, and  
downy thornapple



Sesbania and budda pea



Weed density (no./m <sup>2</sup> )	The Critical Period for Weed Control in cotton (day degrees since planting)												
	High yielding cotton crops						Low yielding cotton crops						
	Broad-leaf weeds				Grasses		Broad-leaf weeds				Grasses		
	Large		Medium		Start	End	Large		Medium		Start	End	
Start	End	Start	End	Start			End	Start	End				
0.1	145	189	145	172	-	-	-	-	-	-	-	-	-
0.2	144	275	144	244	-	-	254	229	-	-	-	-	-
0.5	143	447	143	387	-	-	251	368	-	-	-	-	-
1	141	600	141	514	-	-	246	498	246	319	-	-	-
2	139	738	139	627	-	-	238	620	238	421	-	-	-
5	131	862	131	729	129	174	215	735	215	537	-	-	-
10	121	915	121	771	127	248	184	785	184	595	152	206	-
20	106	944	106	795	125	357	142	812	142	631	147	290	-
50	87	962	87	810	119	531	93	830	93	654	134	431	-
Min. density	0.06		0.07		2.5		0.24		0.59		5.4		