



Date: Monitoring Record Number.....(Official use only)

**Monitoring/Observation of biological control agents – Leaf borers**

Biocontrol Agent:

Target Weed:

**1. Details of person conducting monitoring (NB)**

Name	
Address	
Telephone	Fax Number:
Organisation	E-mail Address:

**2. Location of site**

If a previously registered release site, release record number.	
Province	
District/Farm Name	
Nearest Town	¼°Square Number
Latitude (°S)	Longitude (°E)
Actual Position (give description)	

**3. Habitat of site** (tick appropriate boxes)

Natural vegetation types	Disturbance/land use	Landform/moisture regime	Aspect
Forest	Road/rail side	Watercourse	Direction- N
Savanna	Around habitation	Wetland	S
Grassland	Plantation	Dryland/well drained	E
Karoo	Arable/Ploughed	Kloof/ravine	W
Fynbos	Pastoral	Rocky site	Steep
Transformed	Wasteland	Deep sand	Gentle incline

**4. Host plant (weed) abundance** (circle one appropriate code e.g. (F) )

<b>P</b> = Present (abundance uncertain)	<b>R</b> = Rare (one sighting of one or a few plants)
<b>O</b> = Occasional (a few sightings of one or a few plants)	<b>F</b> = Frequent (many sightings of single plants of small groups)
<b>A</b> = Abundant (many sightings of clumps or stands)	<b>V</b> = Very abundant (forming extensive stands)

**5. Insect Presence** (circle one code in each line e.g. (Y) )

Signs of insect feeding:	<b>Y</b> = Yes	<b>N</b> = No		
If yes, are there holes in the leaves?	<b>Y</b> = Yes	<b>N</b> = No		
Scale of leaf damage (1-5, with 5 being highest)				
Life stages seen:	<b>E</b> = Egg batches	<b>N</b> = Nymphs	<b>A</b> = Adults	
Are they being attacked: (e.g. by ants):	<b>N</b> = No	<b>Som</b> = Some predation	<b>Sev</b> = Severe predation	
If yes, by what?				
Insect Abundance	<b>P</b> = Present (abundance uncertain)	<b>Abu</b> = Abundant (large numbers immediately apparent)	<b>Com</b> = Common (easily located in large numbers)	<b>Sca</b> = Scarce (sparse, difficult to find)
Monitoring effort				

**6. Damage to weed** (circle one appropriate code e.g. Tr)

<b>Tr</b> = Trivial (infrequent signs of damage)	<b>Mod</b> = Moderate (Frequent signs of damage, plants unstressed)
<b>Con</b> = Considerable (signs of stress or some deformation)	<b>Ext</b> = Extensive (host obviously stressed or extensively deformed)
<b>Tot</b> = Total (host plants dead, total collapse of weed population)	

Contributors: DEA: NRM (Debbie Sharp), PPRI and SAPPI (Wayne Lotter)