



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

Monitoring/Observation of biological control agents – Leaf miner

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))

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

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

Signs of insect feeding:	Y = Yes	N = No	
If yes, are there visible mines?	Y = Yes	N = No	
What do the mines look like	Herringbone	Blotches	Lines other
Life stages seen:	E = Egg batches	N = Nymphs	A = Adults
Are they being attacked: (e.g. by ants):	N = No	Som = Some predation	Sev = Severe predation
If yes, by what?			
Insect Abundance	P = Present (abundance uncertain)	Abu = Abundant (large numbers immediately apparent)	Com = Common (easily located in large numbers)
			Sca = Scarce (sparse, difficult to find)
Monitoring effort			

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

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

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