

Weekly scouting record sheet



SAMAC
Macadamias South Africa NPC

Date:	
Location:	
Scout name:	
Data trees:	<input type="text"/>
(B) Observation points per tree (Obs.):	<input type="text"/>

MACADAMIA PHENOLOGY PICTORIAL GUIDE

Scouting record sheet instructions:

- Write the date, location and your name clearly on each sheet.
- Write the number of data trees (A) for the location – this should be 2% of the number of trees in the location.
- Write the number of observation points (B) per tree (4 is recommended for large trees).
- Calculate the average as the sum of the counts or presence ÷ (A x B) or incidence % as the sum of

Tree development	
Leaf flush	Root flush

Flower development			
STAGE 1			
A	B	C	D
Budbreak	Raceme elongation	Pre-flowering bud formation	Pre-flowering bud elongation
STAGE 2		STAGE 3	STAGE 4
E	F	G	H
Early flowering style bend (some flowers can already be open)	Peak flowering: all flowers open (full bloom, anthesis)	Petal drop (natural sepal browning) and nut set	Nut swell (embryo swell and sepals drop)

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(A) x (B) =

PHENOLOGY MONITORING – LIVE SCOUTING

Phenology	Description	Observation point 1	Observation point 2	Observation point 3	Observation point 4	Sum of presence	Incidence %
Flower development	Bud break (A)						
	Raceme elongation (B)						
	Pre-flowering bud formation (C)						
	Pre-flowering bud elongation (D)						
	Early flowering style bend (E)						
	Peak flowering open flower (F)						
	Petal drop and nut set (G)						
	Nut swell (H)						
Fruit development	Cell division (A)						
	Expansion and nut drop (B)						
	Shell hardening (C)						
	Oil accumulation and maturity (D)						
Tree development	Leaf flush						
	Root flush						



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(A) x (B) =

MAJOR MACADAMIA PESTS – LIVE SCOUTING

	Obs. 1	2	3	4	SUM	% c
MACADAMIA FELTED COCCID (MFC) CRAWLERS (count on cm ² duct tape) <i>write a number</i>						
MFC female present <i>write 1/0</i>						
NUT BORER VIABLE EGG ON HUSK <i>write 1/0</i>						
NUT BORER PARASITISED EGG ON HUSK <i>write 1/0</i>						
STINK BUG VIABLE EGG PACKET <i>write 1/0</i>						

STINK BUG PARASITISED EGG PACKET <i>write 1/0</i>						
STINK BUGS (branch shake & live scouting) <i>write a number</i>						
MNB larvae <i>write 1/0</i>						
FCM larvae <i>write 1/0</i>						

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(A) x (B) =

MACADAMIA REPERCUSSION PESTS – LIVE SCOUTING

	Obs. 1	2	3	4	SUM	% incidence or average
THRIPS adults on flower stage 1 <i>write a number</i>						
THRIPS nymphs on flush <i>write a number</i>						
THRIPS adults + nymphs on flush <i>write a number</i>						
APHIDS <i>write 1/0</i>						
MEALYBUG <i>write 1/0</i>						
Notes:						



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STINK BUG KNOCK DOWN

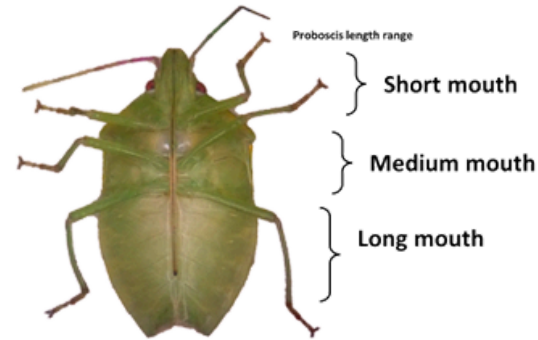
STINK BUG ADULT STAGE

LONG- MEDIUM- SHORT MOUTH

Station 1	<input type="text"/>	1 <input type="text"/>	1 <input type="text"/>
2	<input type="text"/>	2 <input type="text"/>	2 <input type="text"/>
3	<input type="text"/>	3 <input type="text"/>	3 <input type="text"/>
4	<input type="text"/>	4 <input type="text"/>	4 <input type="text"/>
5	<input type="text"/>	5 <input type="text"/>	5 <input type="text"/>
6	<input type="text"/>	6 <input type="text"/>	6 <input type="text"/>
7	<input type="text"/>	7 <input type="text"/>	7 <input type="text"/>
8	<input type="text"/>	8 <input type="text"/>	8 <input type="text"/>
9	<input type="text"/>	9 <input type="text"/>	9 <input type="text"/>
10	<input type="text"/>	10 <input type="text"/>	10 <input type="text"/>

NYMPHS

Station 1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
6	<input type="text"/>
7	<input type="text"/>
8	<input type="text"/>
9	<input type="text"/>
10	<input type="text"/>



Sum:

<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>
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Total:

Trees per station:

Stink bugs per tree = Total ÷ stations x trees per station

<input type="text"/>
