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Seed Handling Manual Guidelines and Logbook for Seed Processing

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SEEDLOT DIARY

Seed source (no. and name):Species:			
1. Seed Maturity			
a. Maturity criteria: .			
	_	_	
b. Cutting test to determine maturity:	yes	no 🗀	
Date of sampling:	Darcantaga matura:	9%	
Sample size (no. of seeds)	reicentage mature.	70	
c. Estimated mature seeds (without sam)	pling):	%	
d. Cutting test: yes	no 🗖		
Date of sampling:	Date of testing:		
Sample size (no. of seeds):			
% filled and good:	%		
% empty:	%		
% damaged/dead:	%		
% immature or not developed:	%		
e. Moisture content:	yes 🗖 no 🗖		
	-		
Date of sampling:	•		
No. of replicates:			
Material (fruit/seed):	_		
Moisture content: % (fr	esh weight basis)		

2. Collection

a. Collection dates:			
b. Collection method:	from the tree from a cover on the g	from the ground \square	
If from a cover on the gro shedding to collection:		number of days from	
c. Describe the method o	of collection and the	material collected (e	e.g. clusters of pods, fleshy fruits):
d. No. of trees collected i	rom :	Mixed in the field:	
e. Is the size of the crop:	Good	Intermediate	Poor
f. Condition of the mater	rial (e.g. pests, mech	anical damage, matur	ity):
g. Describe any selection	/cleaning of collecte	ed material done at t	his stage:
h. Yield:			
Total quantity collected:	unit (lit	tres, kg, other):	
Total quantity of fruit coll	ected: ur	nit (litres, kg, other):	
Quantity of seed (or other	unit ready for selling	g): kg	

3. Transport/storage before processing

a. If any processing s	teps (item 4) were made in the field state their numbers (see numbers in	
diagram, item 4):		
-	essing steps done at the central unit i.e. where the seed will be finally steam, item 4):	ored

c. Temporary storage and transport conditions

Temporary storage (TS) & transport (T)	Duration (dates)	Container type	No. of kg per container	Temp./°C	Air exchange possible (Yes/No)
TS between collection and processing in field or transport					
TS after processing in field and before transport					
T to central seed centre					
TS at seed centre before processing					

4. Processing

a. Type of storage physiology (known or suspected):									
Recalcitrant Intermediate Orthodox Unknown									
b. Initial to	esting b	efore pr	oce	essing:					
Date of sampling	Seed mc/%	Normal seed-		Abnor- mal seedl.%	Empty seeds/%	Fresh seeds/%	Insect attacked seeds/%	Other/	Days to 50% germ.
STEP			D.	ATE(S)	MACHINE/METHOD				
c. Pre-cl	leaning								
d. After	-ripeni	ng			% matu	re % f	illed and goo	od	
e. CONI	ES								
1. Dry	ing con	<u>es</u>							
2. Tun	2. Tumbling cones								
3. Dewinging seed									
4. Other									

STEP	DATE(S)	MACHINE/METHOD
f. FRUITS, DRY		
1. Drying fruits		
2. Threshing		
3. Separation		
4. Dewinging		
5. Other		
g. FRUITS, WET		
1. Soaking		
2. Maceration		
3. Washing (state whether sinkers/ floaters are removed)		
h. Drying of seed (or other unit stored/sold)		
i. Cleaning		
j. Upgrading		

5. Testing during processing

thod: of replicates:		
osequent determinations o	f moisture content:	
Date of sampling	Step no	Moisture content/%
Cutting tests		
mple size (no. of seeds): .		
ed and good: F pty: E		
maged/dead: D		

Date of sampling	F%	E%	D%	<i>I%</i>	During/after step no

6. Pretreatment

a. Type of dormancy (known or suspected):
Physical (water-impermeable)
Embryo dormancy
b. Method of pretreatment before germination testing (describe details e.g. temperature, duration, machine):
c. Other pretreatment methods tested and their applicability:
7. ISTA-testing after processing, before storage/selling
a. Date of sampling: b. Date for initiation of germination test:
c. Moisture content: % d. 1000 seed weight: no./kg
e. Purity: %
f. Germination capacity: % normal germinants % abnormal % fresh not germinated % insect attacked % empty % other
g. Germination speed: First germinant: days (after initiation of germination test) Last germinant: days 50% germination: days

8. Evaluation of seed quality

Very good [☐ Satisfacto	ory Not sat	isfactory \square	Poor	
Conclusions	, causes of dissat	isfactory results, p	procedures to be cha	anged, tests/research	to be made:
9. Stora	age condit	ions			
Date initiat of stor	ion type	Seed per container/kg	Temperature/ °C	Seed moisture content/%	
Method:			other preca		· · · · · · · · · · · · · · · · · · · ·

11.Testing during storage

Date	<i>MC</i> /%	Normal seed- lings/%	Abnormal seedl.%	Empty seeds/%	Fresh seeds/%	Insect attacked seeds/%	Other/ %	Days to 50% germ.

Evaluation of storability						

12. Comm	ents
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