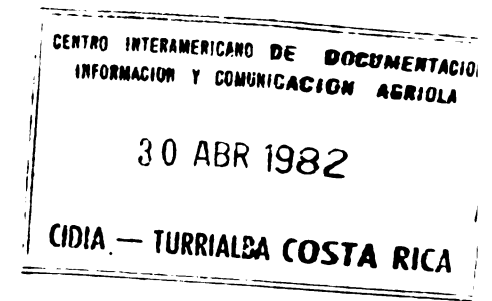


Technical Series

TECHNICAL BULLETIN No. 7

GENETIC RESOURCES OF CACAO

A catalogue of
the **CATIE** collection



Publication financed with funds of
the German Agency for Technical Cooperation,

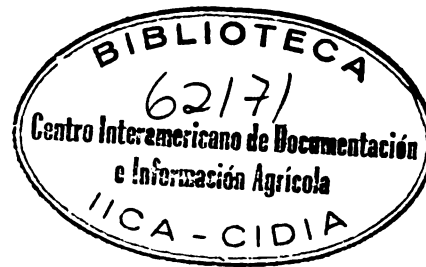


TROPICAL AGRICULTURAL RESEARCH AND TRAINING CENTER, CATIE

Plant Genetic Resources Unit

Turrialba, Costa Rica, 1981

ST
BT-7



Catalogue of data from a systematic description of the collection of cacao (*Theobroma cacao* L.) and some related species, maintained at CATIE.

Contributors

Coordinator and author: Jan Engels
Data collection: Rigoberto Bonilla
Rodolfo Sánchez
Jorge Morera
Kees Reinink
Leon van Beuningen
Data processing: Heather Palmer
Teresa Washington
Jorge Morera

Acknowledgments

The author is grateful to the German Agency for Technical Cooperation (GTZ) by whom the present work was supported with funds from the German Ministry of Economic Cooperation at Bonn. He would like to express his thanks to Mr. J. R. Palmer for carefully reading the English manuscript, and to Drs. Soria and Enríquez for their useful comments.

Contents

Foreword	4	CATALOGUE	
Introduction	5	PART I: Completely described clones	36
Details of the collection and its environment	5	PART II: Partially described clones	108
Soil data	6	Drawings	119
Climatic data	6	Appendix A: List of acronyms and their meanings	169
Descriptors used in the systematic description	6	Appendix B: List of colour codes and their meanings	171
Coding of the descriptors	7	Appendix C: List of TUR accession numbers of cacao clones with desirable characteristics	173
Definition of the descriptors	11	Appendix D: Statistical magnitudes of quantitative and qualitative characteristics	179
general	11	Appendix E: Alphabetical listing by accessions name of the described cacao clones	185
production	12		
seed	12		
fruit	13		
flower	17		
leaf	18		
compatibility	19		
resistance	19		
notes	19		
Procedures of the description	19		
Organization of the descriptors	20		
Drawings of fruits	21		
Related cacao species	21		
References	34		

Foreword

The Tropical Agricultural Research and Training Center, CATIE, has a long history in cacao breeding and has established a comprehensive collection of cultivated clones, breeding lines and populations, as well as wild species related to *Theobroma cacao*.

With technical and financial support of the Federal Republic of Germany, administered by the Agency for Technical Cooperation (GTZ), Ltd., a Plant Genetic Resources Project was started by CATIE. The main objective of this project is the conservation of indigenous Central American germplasm. To reach this goal, an infrastructure was established for seed storage, for preservation of living collections and for data management.

An important additional activity of the unit is the promotion of the use of its germplasm. One method is the publication of specific information on each of the clones, including taxonomic, agronomic and genetic characteristics. This catalogue is an attempt to distribute such information, accumulated during the systematic description of the cacao collection at CATIE over several years, and to assist potential users in obtaining the material they need.

Since it was not always possible to trace mistakes made in the past, or to decide which of a mixture of trees found in one row of an accession belonged to the true clone, it is very likely that some descriptions do not correspond with the recorded accession name. For some clones notes were included to indicate doubts about the names. Comments are welcomed from the readers of this catalogue. At CATIE the descriptive work continues on the remaining clones, including some progeny populations of Nicaraguan "criollos". It is planned to publish these results in the future as a supplement.

Introduction

The collection of cacao germplasm at CATIE comprises almost 500 accessions which were collected, introduced to or bred at CATIE over the last 30 years or more. Many scientific studies were published on material from this collection. However, the lack of a publication containing details of each of the accessions is the reason that this valuable germplasm is used mainly within CATIE. In 1967 Enríquez and Soria published a cultivar register of a small fraction of the cacao collection. Later, the compilation of an international catalogue was initiated but has not yet been published.

The present catalogue contains information on 294 clones, 8 related species and on one hybrid. Limited information on 119 clones is included at the end of the catalogue. Since the data was collected only in Turrialba, detailed information on soil and climate are given to allow comparisons with data from other sites. The descriptors which have been used are defined as precisely as possible, with information on the instruments employed, the type of plant material, etc. The sampling method for each of the characteristics is mentioned. Since the evaluation for disease resistance was outside the scope of the project activities, information was compiled from the literature, with citations. Information on self-compatibility of the clones was provided by observations made at CATIE and by literature accounts. Information on the combining ability (specific or general) of a clone is included in the catalogue under 'notes'. The collected data for each of the clones make up the main part of the catalogue and are presented as a copy of the computer listing. Drawings of the longitudinal and transverse sections of a representative fruit of each of the clones are included as illustrations of the foregoing data. The same scale was used for all the drawings. The information on

the related species and hybrids is presented partly as drawings and partly as data. The appendices are included to help the reader/user in selecting the desired material.

Requests for seeds or vegetative material should be sent to the Head of the Plant Genetic Resources Unit, CATIE, Turrialba, Costa Rica. Small quantities of seeds can be delivered free of charge while the requested material is in production. In case of interest in larger quantities or special hybrids, a formal request should be sent to the same address. If special forms are necessary to import the genetic material into the country, they should accompany the request.

Details of the collection and its environment

The collection of cacao clones and its planting in the "Cabiria" area of CATIE estate was initiated in 1952 with UF clones. In 1960 the CC-collection was started and in 1967 the first Brazilian clones were introduced. Each clone is represented by 10 or fewer trees planted in a single row. The distance between rows is 3 m and between trees within rows 2 m. In some parts of the collection the distances are 2.20 m between rows and between trees. All the germplasm described was propagated clonally by root cuttings, grafting or marcotting and then planted in the field.

Fertilization: Since 1971 the collection has been fertilized regularly with the formula N-P-K-Mg/Ca (18-10-6-5) four times a year (January/February, April/May, July/August, and October/November) at 150 g per tree per application.

Shade: An almost closed cover of shade trees, *Erythrina poeppigiana* and *Inga* spp., is present in

nearly all the collection. The trees receive up to two severe prunings a year in February/March and October/November. The distance between shade trees is approximately 12 x 12 m.

Pruning: Twice a year (February/March and October/November) the cacao trees are moderately pruned.

Drainage: The relatively flat area of approximately 11 ha is well drained with a network of open channels.

Weeds: The weeds are chemically controlled by applying Gramoxone and 2,4-D two to three times a year, depending on the weed growth.

Fungal diseases: The most serious diseases are *Phytophthora palmivora*, *Colletotrichum gloeosporioides*, and, sporadically, *Ceratocystis fimbriata*. The losses caused by *Phytophthora* in Turrialba are estimated at 5-10% of the production; 4 to 6 times a year the trees are treated with Kocide-101 or Cupravit, applying approximately 2.5 kg/ha. During the *Monilia roreri* epidemic in the second half of 1980 and the beginning of 1981, 5 kg/ha were applied every ten days.

Pests: When any insect reached the state of being a pest, BHC (25%) was applied together with the fungicide. The main pest is *Monalonion bracaconoides*. Occasionally thrips appeared, in general in combination with *Colletotrichum gloeosporioides* and caused the so-called "die-back". Dithane was used as a fungicide.

Animals: Damage to the fruits caused by birds and squirrels frequently give rise to secondary infections, such as *Thielaviopsis paradoxa*. The

disease was treated by the regular applications of fungicide, four to six times a year.

Harvest: The majority of the clones were harvested weekly. A few clones were chosen for commercial hybrid seed production, such as UF-613 and SCA-6. If there were insufficient fruits of these clones for the description, fruits were used from trees of the same clones planted elsewhere on the CATIE estate.

Soil data

In Table 1 are the results of 16 soil samples taken randomly throughout the collection at a depth of 0-30 cm in May 1981.

Climatic data

The climatic data of 1978, 1979, 1980, and long-term average data are in Tables 2-5. They were collected in the meteorological station at CATIE, which is a few hundred meters south of the cacao collection.

Descriptors used in the systematic description

The first step in putting together characteristics or descriptors of the cacao plant was a search through the literature for any kind of descriptors used previously (Engels, 1977). The next step was an evaluation of these descriptors using the data from several clones. The ones with no variation between clones, a very high variation within clones or which were very complicated to measure/observe were discarded. A first selection of descrip-

Table 1. Mean soil data analysed* from 16 random samples taken from 0 to 30 cm depth.

	Mean	Range
pH H ₂ O	5.3	5.0 – 5.5
P µg/ml	14.6	5.5 – 41.0
N % of total sample	0.37	0.32 – 0.43
Ca meq 100 g of soil	6.9	4.9 – 10.6
Mg meq/100 g of soil	1.9	1.2 – 3.9
K meq/100 g of soil	0.25	0.11 – 0.52
Al meq/100 g of soil (acid. extr.)	0.7	0.2 – 1.4
Cu µg/ml	23.0	14.1 – 36.0
Zn µg/ml	7.3	3.8 – 11.4
Mn µg/ml	12.3	6.2 – 21.1
Fe µg/ml	114	86 – 126
% of sand	19	14 – 26
% of silt	35	32 – 40
% of clay	44	42 – 52
Overall texture	clay	

* Analyses were done by the Soil Laboratory of CATIE, using methods described in Díaz-Romeu and Hunter (1978).

tors of interest to breeders, taxonomists, agronomists, and others was published by Engels *et al.* (1980). In 1981, when the description was practically finished, IBPGR published a descriptor list for cacao, similar to the first CATIE selection.

It was decided to include descriptors of little agronomic use, because data was available. The descriptors, as they are presented in this catalogue, are ordered by descending agronomic/taxonomic importance per organ. Detailed information on how each of them was measured or observed is given below in the definitions. In the next paragraph the coding of the phenotypical expressions of the descriptors—the descriptor states—is discussed.

CODING OF THE DESCRIPTORS

Where descriptor states present real measurements, e.g., pod length in mm, the data are given as the mean of all the measurements of each clone. The coefficient of variability (CV) is also included to show the actual variation within each clone.

If an expression of a descriptor is not exactly measurable (e.g., rugosity of the pod surface) or is highly variable (e.g., production of a clone), the phenotypical expression is coded on a scale from 1 to 9. On this scale '1' always stands for the lowest or weakest expression of a characteristic and '9' for the highest or strongest. Such a scale does not necessarily mean that all the classes have to be

Table 2. Summary of meteorological data from 1978, collected at the Meteorological Station at CATIE.

MONTH	TEMPERATURE (°C)					RAINFALL (mm)			SUNSHINE (hours)	RADIATION (Cal/cm ² /month)	RELATIVE HUMIDITY (%)	EVAPORATION (mm)
	Average		Mean	Absolute		Monthly total	Days of 0.1 mm or more	Max. in 24 hrs.	Monthly average	Monthly average	Daily average	Tank A Monthly average
	max.	min.		max.	min.							
Jan.	26.1	16.1	21.1	28.4	12.0	62.6	14	38.6	168.5	14937	86.7	102.3
Feb.	25.4	17.6	21.5	28.4	15.0	267.1	20	79.4	124.5	10033	90.6	82.8
March	26.8	17.6	22.2	28.2	14.5	85.5	18	25.6	131.4	12337	88.4	111.5
April	27.7	17.6	22.6	30.0	13.2	50.5	13	24.3	168.0	13810	85.1	131.0
May	28.6	19.1	23.8	31.6	16.3	233.1	23	53.0	148.2	12732	89.4	119.5
June	27.4	18.6	23.0	29.2	16.4	252.7	25	37.2	126.0	11370	91.3	99.2
July	27.5	18.6	23.0	28.7	16.4	244.1	27	33.4	129.5	11160	90.6	93.2
August	27.3	18.7	23.0	28.9	17.0	173.3	25	17.3	137.5	12222	90.6	99.9
Sept.	27.5	18.6	23.0	29.0	17.2	221.7	26	41.7	133.6	12228	90.3	100.0
Oct.	27.4	18.6	23.0	28.4	17.0	234.8	23	30.5	148.1	12561	90.2	105.2
Nov.	27.0	18.8	22.9	29.0	16.0	312.3	22	59.8	146.6	11082	92.0	95.1
Dec.	26.9	17.0	22.0	28.6	13.6	150.8	14	85.2	174.4	11682	86.6	100.3
TOTAL	—	—	—	—	—	2288.5	250	—	1736.3	146154	—	1240.0
Average	27.1	18.1	22.6	—	—	190.7	20.8	—	144.7	12180	89.3	103.3

Position of the Meteorological Station: Lat. 9° 53' N; Long. 83° 38'. Elevation: 602 m

Table 3. Summary of the meteorological data from 1979, collected at the Meteorological Station at CATIE.

	TEMPERATURE (°C)					RAINFALL (mm)			SUNSHINE (hours)	RADIATION (Cal/cm ² /month)	RELATIVE HUMIDITY (%)	EVAPORATION (mm)
	Average		Mean	Absolute		Monthly total	Days of 0.1 mm or more	Max. in 24 hrs.	Monthly average	Monthly average	Daily average	Tank A Monthly average
	max.	min.		max.	min.							
Jan.	26.5	15.9	21.2	29.9	12.0	42.7	10	14.4	194.7	12069	83.9	109.8
Feb.	26.3	16.5	21.4	28.2	13.5	47.4	14	11.1	143.8	10749	87.5	100.9
March	27.6	17.0	22.3	31.0	14.5	51.0	9	22.9	186.9	13842	85.1	138.1
April	26.9	19.5	23.2	29.7	17.0	373.5	26	65.4	90.9	10200	92.5	82.6
May	28.2	19.2	23.7	29.5	17.0	205.0	23	47.0	162.3	13431	89.2	125.5
June	27.8	19.2	23.5	30.4	17.8	212.1	25	28.1	130.5	11625	90.2	100.7
July	27.8	19.0	23.4	30.4	16.8	124.6	22	20.6	130.3	11406	89.4	101.4
August	27.7	19.2	23.4	29.9	17.7	213.2	26	28.5	137.8	12149	90.6	104.2
Sept.	28.4	19.1	23.8	29.6	16.0	223.1	23	51.8	128.4	11970	88.8	107.2
Oct.	28.1	19.3	23.7	29.4	17.6	140.8	22	21.4	164.1	11883	88.9	108.2
Nov.	26.4	18.7	22.6	29.5	15.0	154.3	21	19.8	113.4	9491	92.0	78.6
Dec.	25.9	17.8	21.8	29.0	13.8	189.9	21	33.0	129.2	10164	90.0	81.6
TOTAL	—	—	—	—	—	1977.6	242	—	1712.3	128979	—	1238.8
Average	27.3	18.4	22.8	—	—	164.8	20.2	—	142.7	11582	89.0	103.2

Table 4. Summary of the meteorological data from 1980, collected at the Meteorological Station at CATIE.

MONTH	TEMPERATURE					RAINFALL			SUNSHINE	RADIATION	RELATIVE HUMIDITY	EVAPORATION*
	(°C)					(mm)			(hours)	(Cal/cm ² /month)	(%)	(mm)
	Average max.	min.	Mean	Absolute max.	min.	Monthly total	Days of 0.1 mm or more	Max. in 24 hrs.	Monthly average	Monthly average	Daily average	Tank A Monthly average
Jan.	26.2	17.5	21.8	29.0	15.0	143.6	16	38.2	160.7	11340	88.0	99.5
Feb.	25.5	16.6	21.0	29.0	13.0	191.7	17	60.2	143.5	11080	87.5	93.0
March	27.8	17.4	22.6	30.0	14.0	16.8	12	5.9	174.5	13821	85.5	132.4
April	27.7	18.5	23.1	29.8	15.1	96.1	10	24.6	157.9	12960	81.8	126.3
May	28.5	19.4	24.0	30.5	17.5	220.4	21	64.9	169.2	13620	85.4	124.9
June	27.8	19.7	23.8	30.3	16.7	311.7	25	35.6	97.7	9777	88.7	84.8
July	27.8	19.2	23.5	30.0	17.2	182.7	22	44.6	147.1	12099	87.2	103.9
August	28.1	18.8	23.4	29.3	17.0	184.1	23	29.8	152.6	13638	87.1	112.5
Sept.	28.1	18.9	23.5	29.8	16.5	273.0	24	45.7	128.6	11922	87.3	101.5
Oct.	27.8	18.8	23.3	29.0	19.0	132.5	21	19.0	143.5	11709	88.6	99.5
Nov.	26.7	18.7	22.7	28.7	17.0	282.0	24	52.9	108.9	10423	90.5	73.9
Dec.	24.7	17.4	21.0	27.5	15.0	443.8	24	147.5	82.5	8586	89.7	56.0
TOTAL	—	—	—	—	—	2478.4	239	—	1666.7	140975	—	1208.2
Average	27.2	14.8	22.8	—	—	206.5	19.9	—	138.9	11748	87.3	100.7

Table 5. Summary of the meteorological data from 1944–1979, collected at the Meteorological Station at CATIE.

MONTH	TEMPERATURE					RAINFALL			SUNSHINE	RADIATION	RELATIVE HUMIDITY	EVAPORATION*
	(°C)					(mm)			(hours)	(Cal/cm ² /month)	(%)	(mm)
	Average max.	min.	Mean	Absolute max.	min.	Monthly average	Average days with 0.1 mm or more	Max. 24 hrs.	Monthly average	Monthly average	Daily average	Tank A Monthly average
Jan.	25.7	16.2	21.0	31.0	10.0	172.7	18.5	164.9	146.4	12041	86.8	83.8
Feb.	26.0	16.2	21.1	30.0	10.4	136.1	15.2	247.5	145.1	12088	84.6	85.8
March	26.9	16.8	21.8	31.5	10.5	68.0	13.5	85.4	159.5	14596	84.6	116.3
April	27.3	17.6	22.4	31.7	11.8	133.6	15.2	287.9	153.2	14420	85.0	112.6
May	27.4	18.4	22.9	32.0	13.5	218.5	23.1	67.2	147.2	14387	86.9	107.8
June	27.8	18.6	23.2	31.5	15.2	287.9	21.8	85.5	125.5	12584	88.8	89.1
July	27.1	18.4	22.8	30.6	14.1	178.7	25.4	113.4	115.6	12597	90.0	79.4
August	27.4	18.3	22.8	30.2	14.9	240.8	24.3	126.7	133.7	13967	88.9	86.3
Sept.	27.8	18.2	23.0	30.8	14.8	252.1	22.6	110.5	129.8	13959	88.2	92.8
Oct.	27.6	18.2	22.9	30.8	14.5	244.7	22.0	109.2	120.8	14175	88.7	98.0
Nov.	26.6	18.0	22.3	30.1	13.7	277.5	22.1	115.3	128.2	11985	89.5	79.0
Dec.	25.9	16.9	21.4	29.9	10.6	329.7	21.5	288.3	135.8	12004	88.8	76.6
TOTAL	—	—	—	—	—	2640.3	245.2	—	1660.8	158803	—	1107.5
Average	27.0	17.6	22.3	—	—	—	20.4	—	138.4	13234	87.6	92.3
Observations in the period:	Temperature: 1959–79 (21 years)					Sunshine: 1959–79 (21 years)			Rel. humidity: 1957–79 (21 years)			
	Rainfall: 1944–79 (36 years)					Radiation: 1965–79 (15 years)			Evaporation: 1968–79 (12 years)			

* In the summaries from 1964 to 1977, evaporation was from a plate in the sun. From 1978 on, it was from Tank A.

used. Table 6 shows the discrimination possible with from two (example VII) to nine (example I) classes (Seidewitz, 1974). The even numbers are generally used if the observation does not fit well in a 'major' class. In the definitions of the descriptors only the classes 3, 5 and 7 (example IV in Table 6) are presented, but all the possibilities (example I) are available for use.

If the descriptor states are registered only as

'present' or 'absent' (e.g., presence of white-coloured cotyledons), the characters

0 = absence of the expression
+ = presence of the expression

are used. A blank indicates missing or non-existent data.

Some qualitative descriptors are always regis-

Table 6. Examples of numerical codes with continuously expressed characteristics.

Example No.	CODES								
	1	2	3	4	5	6	7	8	9
I	very low	very low to low	low	low to intermediate	intermediate	intermediate to high	high	high to very high	very high
II	very low	—	low	—	intermediate	—	high	—	very high
III	—	very low to low	—	low to intermediate	—	intermediate to high	—	high to very high	—
IV	—	—	low	—	intermediate	—	high	—	—
V	—	—	low	—	—	—	high	—	—
VI	very low	—	—	—	intermediate	—	—	—	very high
VII	very low	—	—	—	—	—	—	—	very high

tered with the help of a colour chart (e.g., Methuen handbook of colour, Kornerup and Wanscher, 1978) and expressed in the code given by this colour chart. In appendix B a list is presented of all the codes which were used and their meanings.

Reactions of the clones to diseases are expressed in non-numeric grades (see paragraph b 8 of this chapter).

DEFINITIONS OF THE DESCRIPTORS

General descriptors

Accession number. This number, assigned by the Plant Genetic Resources Unit of CATIE, is the unique identifier for each accession. Once assigned, this number can never be reassigned, even when an accession becomes extinct. In the catalogue the letters TUR which precede each accession number are omitted to save space. In the text 'accession' and 'clone' are used as synonyms.

Field plot. The position of an accession in a certain plot in the collection at CATIE is indicated by a letter code.

Row number. The number(s) indicate(s) in which row(s) the accession is planted.

Tree number. The actual number of trees comprising the accession.

Accession name. The name for the accession that was given by the 'original' experimental station. These names are generally alpha-numeric or alphabetic identifiers.

Synonyms. These include any previous identification other than the current name, collection

number, newly assigned station name or other number and/or vernacular name(s) frequently used as identifiers.

Country of origin. The full name of the country in which a particular accession was collected, selected or bred. If the country of origin was unrecorded, the accession is reintroduced with origin given as CATIE, Costa Rica.

Political subdivision of origin. The name representing the political or administrative subdivision of the country in which a particular accession was collected, selected or bred. Examples are the names of a state, province or county.

Locality of origin. The specific name of the town, village or area in which the accession was collected. In some cases a short description of the exact site is given.

Collecting source. The type of 'habitat' where the accession was collected or from where it was obtained is specified as follows:

- 1 = natural habitat
- 2 = farm
- 3 = experimental station

Name of collecting source. The name of the farm, experimental station or, if applicable, the name of the natural habitat.

Type of pollination. The code refers to the way in which an accession is derived from an ancestral population. This can be by:

- 1 = natural or open pollination
- 2 = artificial pollination

Pedigree. A register recording the lines of ancestors. In general either the mother or both parents of a controlled cross are given and the accession is a selection from the progeny.

Year of description. The year is registered in which the systematic description was prepared. Since all the parts of a certain clone were not always described in the same year, this descriptor is recorded for leaf, flower and fruit characteristics.

Month of description. The month of description is recorded, since seasonal weather conditions may influence the phenotypic expression of certain characteristics. In general, the recorded month is that in which the majority of the observations/measurements were made.

Production descriptors

Fruit index. The number of fruits of a given accession that is needed to obtain 1 kg of dry cocoa. This number is calculated by dividing 1000 by the product of seed number per pod and mean dry seed weight.

Seed index. The average dry seed weight (in g) of a clone, measured from 15 seeds from each of 10 fruits.

Productivity. The productivity of a clone is expressed as the number of fruits per tree that is produced within a certain period. This estimate was confirmed by later observations in the field.

- 1 = very low \approx 40 fruits harvested over three years
- 3 = low
- 5 = intermediate \approx 40 fruits obtained from

3-4 harvests over one year

7 = high

9 = very high \approx 40 fruits harvested at one time

Maximum number of seeds. The highest number of seeds per fruit is recorded, from observations on 40 fruits per clone. There exists a high correlation between values of this descriptor and the number of ovules per ovary.

Seed descriptor

Data are taken from peeled seeds. The seeds are chosen at random in each fruit.

Wet weight of seed in g, mean and CV*. The mean weight of fresh seeds and the CV are calculated, based on 15 seeds from each of 10 fruits per clone.

Dry weight of seed in g, mean and CV. Seeds, from the same sample taken for wet weight, are dried in an oven for 1.5 hours at 130°C, cooled in a desiccator and weighed on an analytical balance. (This descriptor is repeated here for convenience of the reader).

Ratio of mean dry/mean wet seed weight. This result is obtained by division of the mean dry seed weight and mean wet seed weight and is an indication of the loss in weight caused by drying the cacao seed.

Number of seeds per fruit, mean and CV. Although seed-setting is a characteristic which is heavily influenced by environment, the mean seed

* Coefficient of variation.

number per fruit is economically very important and varies greatly between clones. For these reasons the average number of seeds in 40 fruits is recorded.

Ratio of mean number of seeds per fruit/maximum seed number. This ratio indicates how efficient is a certain clone in producing seeds. It is of course influenced by compatibility, weather conditions during flowering, etc. The ratio is obtained from the same samples as used for the measurements of the two component descriptors.

Ratio of mean number of seeds per fruit/mean total fruit weight. The ratio is an indicator of the efficiency of production of cacao (seeds) per fruit. The higher the ratio the more effective is the clone in producing seeds. The same samples are used as for the component descriptors.

Seed length in mm, mean and CV. The mean and CV of the maximum length of five seeds from each of 20 fruits is measured with a vernier caliper.

Ratio of mean seed width/mean seed length. Is calculated with the results of seed length and width.

Seed width in mm, mean and CV. Mean and CV of maximum seed width are determined from the same sample used for seed length.

Seed thickness in mm, mean and CV. Mean and CV of the maximum seed thickness are calculated from the same sample used for seed length and width.

Cotyledon colour. Although this trait is of relatively little value, because of cross pollination, the presence or absence of the different colours per

clone are presented. In this way a rough indication can be obtained of the most recessive cotyledon colour, if there is self-pollination (cotyledon colour is a xenia). The data were taken from the same sample as in seed length; except that, if there was variation, all the seeds from each of 10 fruits were examined. The following classes were used: white, greyish white, light purple (including intermediate purple), and purple spotted.

Fruit descriptors

Fruits of 4-5 months old are used as unripe fruits. Ripe fruits are those which are physiologically ripe as shown by changes in colour. A sample size of only five fruits is used for assessment of pod wall thickness in some of the clones; this resulted in general in a much lower CV than was obtained with a sample of 35 fruits.

The Methuen handbook of colour is used to determine the colours, which are presented as a code.

If only three or four classes (0, 3, 5, and 7) are given, this does not exclude the use of the other six classes (1, 2, 4, 6, 8, and 9).

Fruit length in mm, mean and CV. Thirty-five (or 40) fruits are measured with a vernier caliper to determine mean and CV for each clone.

Fruit width in mm, mean and CV. The maximum width is measured of the first 20 fruits from the sample used for fruit length.

Ratio of mean fruit width/mean fruit length. The means from each of the two previous descriptors are used to calculate the ratio.

Ratio of the mean distance base to widest

part/mean fruit length. The distance from the base to the widest part is measured on each of 10 fruits. The mean ratio was calculated by dividing the two means obtained from the same sample.

Fruit weight in g, mean and CV. The average fruit weight of the whole fruit and its coefficient of variability is calculated from the same sample as for fruit length.

Fruit wall thickness at ridge in mm, mean and CV. The fruit wall thickness at a randomly chosen ridge on each of the 35 or 40 fruits is measured with a vernier caliper; the fruits are transversally sectioned and the soft endocarp tissue removed to exclude the influence of ripeness of the fruit.

Fruit wall thickness at secondary furrow in mm, mean and CV. The furrow within a pair of ridges which are situated above a carpel is measured in the same fruits which were sampled for the previous descriptor.

Basic fruit surface colour. Green is the base colour in unripe fruits, although the intensity can vary. The observed colours are presented as codes which are interpreted in Appendix B.

Anthocyanin intensity in ridges. The intensity of anthocyanin in the ridges of unripe fruits is expressed as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Anthocyanin intensity in primary furrows. The intensity of anthocyanin in the furrows of unripe fruits is expressed as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Anthocyanin in ripe fruits, ridges and furrows. The code representing absence (= yellow fruit) or presence (= reddish fruit) in different intensities of the anthocyanin in ripe fruits is expressed as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Ridge pair separation. The degree of separation between a pair of ridges is expressed as a mean ratio of the distances measured between ridges within a pair (distances 'a' in drawing) and the distances between the ridges of two different pairs (distances 'b' in drawing). This mean ratio is calculated in one representative fruit per clone, sectioned at the widest point and based on five pairs of measurements (Figure 1).

Primary furrow depth. A code for the depth of the furrow between two pairs of ridges (Figure 2) is expressed as:

- 3 = superficial
- 5 = intermediate
- 7 = deep

Fruit surface rugosity. These codes refer to the appearance of protuberances on the fruit surface:

- 0 = absence
- 3 = slight
- 5 = intermediate
- 7 = intense

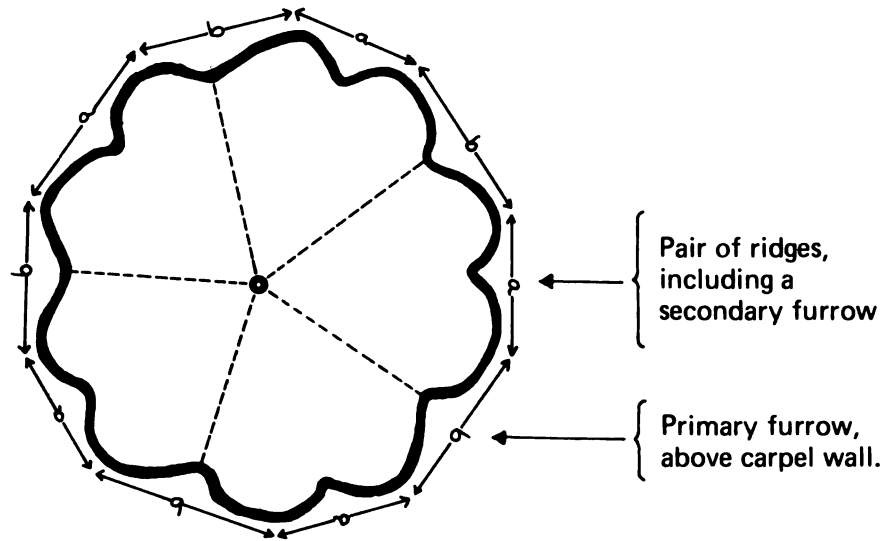


Fig. 1 Ridge pair separation

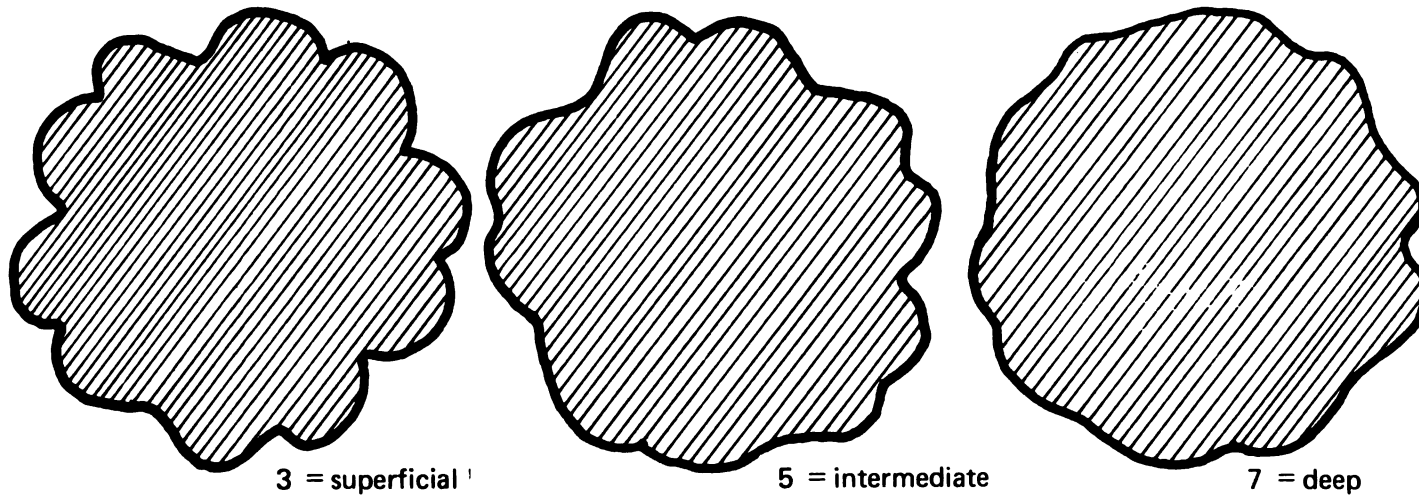
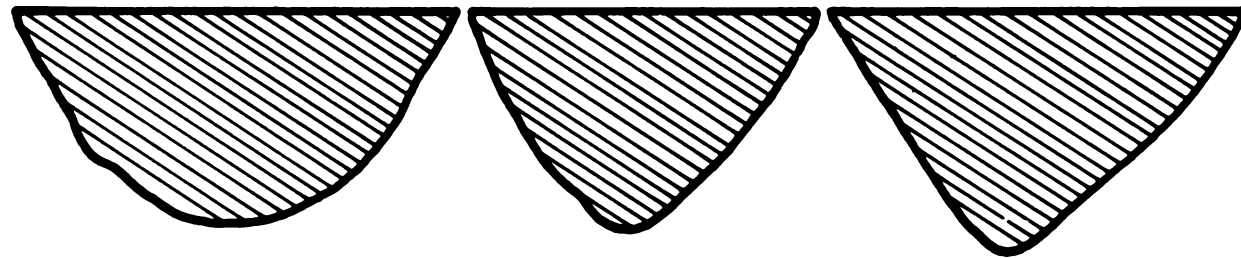


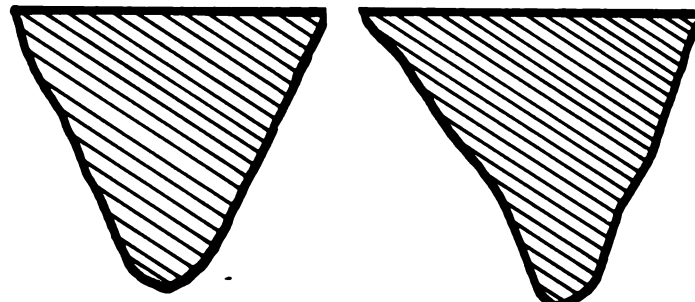
Fig. 2. Primary furrow depth



1 = slightly obtuse

3 = obtuse

5 = slightly acute

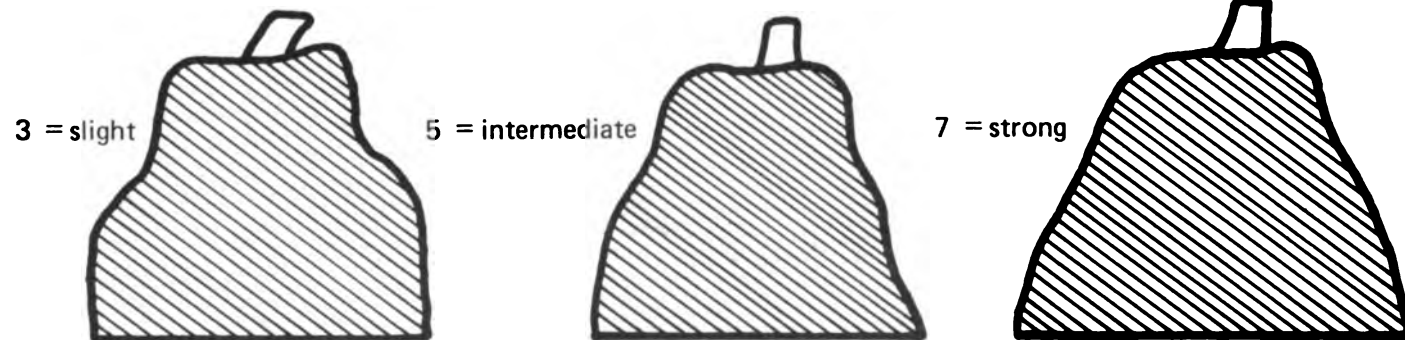


7 = acute

9 = attenuate

Fig. 3. Fruit apex form

Fig. 4. Basal constriction



3 = slight

5 = intermediate

7 = strong

Fruit apex form. The form of the apical part of the ripe fruit (Figure 3) is expressed as:

- 0 = round
- 1 = slightly obtuse
- 3 = obtuse
- 5 = slightly acute
- 7 = acute
- 9 = attenuate

Basal constriction. The code representing the constriction or 'bottle neck' of the basal part of the ripe fruit (Figure 4) is expressed as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = strong

Mesocarp hardness. A code representing the hardness of the mesocarp of ripe fruits. The force required to cut the mesocarp with a kitchen knife was subjectively classified as:

- 3 = soft
- 5 = intermediate
- 7 = hard

Flower descriptors

Data are taken from one to four randomly-selected recently-opened flowers of each of five trees. Flowers exposed directly to sunlight are not collected. All the measurements of the flower organs are done under a stereo microscope. These organs are arranged on a glass slide in a drop of glycerol and carefully flattened under a cover slip.

If more than one organ per flower is available, only one is chosen at random per flower. (See also Figures 5 and 6).

Style length in mm, mean and CV. The mean style length and CV of two flowers from each of five trees are presented.

Ovary length in mm, mean and CV. The ovaries of four flowers from each of five trees are measured.

Ovary width in mm, mean and CV. The width at the widest part of the ovaries of four flowers from each of five trees is measured.

Staminode length in mm, mean and CV. The length of the staminodes (one per flower) of two flowers from each of five trees is measured.

Sepal length in mm, mean and CV. The length of the sepals (one per flower) of two flowers from each of five trees is measured.

Sepal width in mm, mean and CV. The width at the widest part of the sepals is measured of four flowers (one sepal per flower) from each of five trees.

Petal length in mm, mean and CV. The length of the whole petal ligule, including the cup, is measured in three flowers from each of five trees.

Ligule width in mm, mean and CV. The width at the widest point of the superior part of the petal ligule is measured in the same sample as used for ligule length.

Anthocyanin intensity in ligule. The intensity of the pigmentation in the upper part of the petal

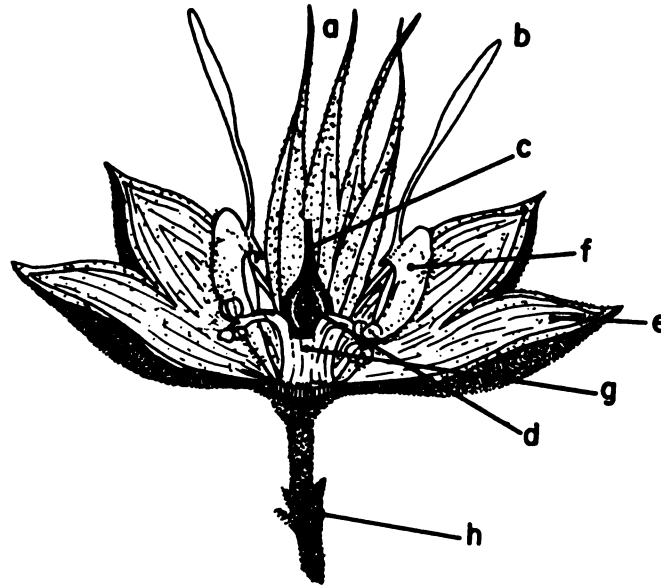


Fig. 5. *Theobroma cacao* L., lateral cross-section of flower: a. staminode; b. ligule (petal); c. style; d. ovary; e. sepal; f. cup (petal); g. filament; h. peduncle. (10 x)

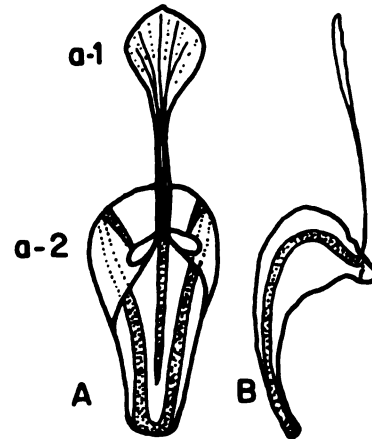


Fig. 6. *Theobroma cacao* L.; A. inside view of petal; a.1. ligule; a.2. cup; B. lateral view of petal.

ligule is observed on at least five trees and coded as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Anthocyanin intensity in stamen filament. The intensity of the pigmentation in the stamen filaments of at least five trees is coded as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Sepal colour. The colour of the outer part of the sepals of at least five trees is determined with the Methuen colour chart and coded as in Appendix B.

Anthocyanin intensity in upper ovary part. The intensity of the pigmentation in the upper half of the ovary of flowers from at least five trees is coded as:

- 0 = absent
- 3 = slight
- 5 = intermediate
- 7 = intense

Peduncle colour. The colour of the main part of the peduncle (without base) is determined from the Methuen colour chart and coded as in Appendix B.

Leaf descriptor

New flush colour. The colour of the new flush

(leaves of about five cm in length) was determined on several trees of each clone, with the Methuen handbook of colours, and coded as in Appendix B.

Self-compatibility

The information on compatibility of the clones was partly determined experimentally and partly gathered from the literature. All the experimental results are marked with a 'P'. If the code is succeeded by a number, this refers to the citation in the bibliography.

0 = self-incompatible
+ = self-compatible

Disease resistance descriptors

The results of a literature review are presented in the listing of the catalogue. The different notations of the observed reactions of the plant against the fungal attack were transformed into the following codes:

H = hypersensitive
I = immune
R = resistant
S = susceptible
T = tolerant
M-R = moderately resistant
T-R = tolerant to resistant

After each of the codes one or more numbers are given which refer to the citations in the bibliography.

Data of the following diseases are included:

Phytophthora palmivora
Crinipellis perniciosa
Monilia rozeri
Ceratocystis fimbriata

Notes

General observations and remarks are included in the catalogue. The information on the combining ability of a clone is gathered from the literature.

Procedures of the description

The first decision that had to be taken concerned the sampling strategy for the several organs. Preliminary data from all the fruits from random clones were statistically analyzed. The results showed no significant differences between trees/within clones for all the descriptors studied (Engels *et al.*, 1980). This meant that the flowers and fruits of all the trees of a clone could be mixed without indicating the tree-number. However, malformed or other 'off types' of fruits were not included in the calculations of mean and CV.

The next decision concerned the number of samples in each clone needed for each of the characteristics so that the sample mean would fall within the ninety-five percent confidence limits of the population mean, ninety-five times in a hundred. To calculate this 'minimum sample size', the following formula was used:

$$r \geq 0.16 \left[\frac{(\sigma)}{\mu} (100) \right]^2$$

(Pound, 1931)

in which 'r' represents the 'minimum sample size', 0.16 a constant, σ the standard deviation and μ the mean of the population. For some highly variable descriptors as fruit weight, the calculated 'r' was too high to be practical and a lower, arbitrary, number of samples was used. The actual sample size is given in the definitions of the descriptors.

The fruit production of several clones was so low that the description of the fruits, to secure a minimum sample (35-40 fruits), continued for months, sometimes for years. The possible influence of this 'time' factor on the variation within clones is not taken into consideration. The results obtained with data from three clones and two descriptors (fruit length and width) harvested in two different years (but in the same months) did not show any significant differences between clones, between years or in the interaction. The effect of the time of harvest within a year on the expression of the descriptors is not known.

Comparisons of the presented data with descriptions prepared earlier, of the same clones in Turrialba and elsewhere, did not show great differences. Although no statistical methods were applied, it can be said that the phenotypical expression of the majority of the descriptors for the described clones was fairly stable.

The majority of the colour-related characteristics were described in the laboratory under uniform light conditions. The measurements were done with a large and a small vernier caliper; the colours were determined with the Methuen handbook of colour (Kornerup and Wanscher, 1978). The weights were measured with an analytical balance (precision 0.1 g) and the seeds were dried in a common drying oven. The sizes of the different flower organs were measured under a stereo microscope after careful flattening of the organs between a glass slide (with scale) and a cover slip. Glycerol was used to prevent movement

and drying.

Information on disease resistance was collected from the literature. Sometimes it was necessary to interpret the information and to adapt it to the present format. Therefore, the citation numbers are given (up to four per item) to enable the reader to recheck these data.

The study of the compatibility of several clones was done in the second part of 1980. Ten flowers per clone, each on a different tree, were self-pollinated under absolute isolation. In case of dubious results the experiment was repeated. The data are annotated in the catalogue listing with a 'P'. If the code is succeeded by a number, this refers to the bibliographic citation where the information was found.

The collected and coded data were stored on diskettes with an IBM 3742 data entry machine. After adjustment to the required GDM format (Germplasm Data Management System) the data were sorted and listed by programmes developed at the 'Information Sciences/Genetic Resources Program (IS/GR)' of the University of Colorado at Boulder. The statistical analyses were done with several programs developed by Heather Palmer at CATIE (MLTREG for multiple linear regression-version HJP 05/06/81, VARSTATS for simple statistics and DISTFIT for frequency histograms - version HJP 07/05/81).

Catalogue

Since there are far more descriptors per accession than fit on one page of the listing, the data for each clone are presented on five successive pages. The accession number is the identifier for each clone and is presented in the first column of each page.

The *first part* of the catalogue comprises the 294 *completely described clones*. They are presented in ascending order by accession number, which is approximately the same as the alphabetical order of the accession name (page 36).

In the *second part* those clones are listed which were only *partially described*, mainly due to the low fruit production. Since in this part no agronomic descriptors are included, the value is mainly taxonomic. It also serves as a germplasm list (page 108).

In a flap at the end of the catalogue the means and the ranges of the important quantitative characteristics are presented. This flap can be unfolded and allows comparison of individual clonal data with the overall magnitudes. The means, CVs, and ranges of the other quantitative data are presented, with the distribution frequencies of the qualitative data, in Appendix D.

Drawings of fruits

During the systematic description of each of the clones, the most representative fruit was taken as a model. The circumferences of the longitudinal and transversal sections were drawn at natural size (page 119). The drawings here presented are all reduced by the same proportion, as can be seen from the scale in the lower part of the page.

Related cacao species

In Table 7 the *Theobroma* species and some interspecific hybrids are presented which were described in 1979. The same flower characteristics were used as in the systematic description of the flowers of the cacao collection. Some other striking

descriptors were added. The results are given in Table 8. As illustrations simple drawings of the flowers and of a young leaf are included (figures 7–16). Their real sizes should be taken from the presented data. Some drawings are adapted from Cuatrecasas (1960).

Table 7. The *Theobroma* species and the number of trees used in their systematic description.

Species or cross	Figure	Tree number
<i>Theobroma angustifolium</i>	7	10
<i>T. bicolor</i>	8	8
<i>T. grandiflorum</i>	9	10
<i>T. microcarpum</i>	10	8
<i>T. mammosum</i>	11	10
<i>T. simiarum</i>	12	10
<i>T. speciosum</i>	13	10
<i>T. subincanum</i>	14	2
<i>T. mammosum</i> x <i>T. simiarum</i>	15	30
<i>T. simiarum</i> x <i>T. mammosum</i>	—	21
<i>T. cacao</i> , mutation Upala	16	15

Table 8. Results of the description of different *Theobroma* species and of some crosses.

FLOWER DESCRIPTOR	<i>T. angustifolium</i>				<i>T. bicolor</i>				<i>T. grandiflorum</i>				<i>T. microcarpum</i>			
	\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n
1 style length (mm)	2.38	0.15	2	2	1.8		1	2	2.44	0.26	5	2	1.65	0.13	2	2
2 ovary length (mm)	2.13	0.12	2	4	1.6		1	4	2.17	0.15	5	4	1.88	0.12	2	4
3 ovary width (mm)	1.78	0.07	2	4	1.4		1	4	1.81	0.12	5	4	1.56	0.07	2	4
4 staminode length (mm)	12.4	1.19	2	2	5.7		1	2	16.2	0.95	5	2	7.75	2.9	2	2
5 sepal length (mm)	7.4	0.85	2	2	7.1		1	2	18.0	1.63	5	2	6.93	0.39	2	2
6 sepal width (mm)	4.28		2	4	2.2		1	4	8.3		5	4	2.86	0.27	2	4
7 petal length (mm)	12.9	8.82	2	3	1.5		1	3	12.4	1.11	5	3	—			
8 ligule width (mm)	3.17	0.26	2	3	0.6		1	3	7.36	0.66	5	3	—			
9 anthocyan. intens. of the ligule	0		1	1	0		1	1	7		1	1	—			
10 anthocyan. intens. of the filaments	7		1	1	0		1	1	3		1	1	—			
11 colour of the sepals	0		1	1	0		1	1	12D4		1	1	10D7		1	1
12 anthocyan. intens. upper part ovary	0		1	1	0		1	1	0		1	1	0		1	1
13 colour peduncle	3C4		1	1	9D4		1	1	5D7		1	1	30C5		1	1
14 colour young leaf		green					dark red				purple			green		
15 colour flower bud		green					red				green-brown			green		

\bar{x} = mean value
s = standard deviation
T = number of trees
n = number of samples per tree

<i>T. mammosum</i>				<i>T. simiarum</i>				<i>T. speciosum</i>				<i>T. subincanum</i>				<i>T. mam. x sim.</i>				<i>T. cacao, mutation Upala</i>			
\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n	\bar{x}	s	T	n
1.77	0.18	3	2	1.79	0.26	5	2	2.61	0.14	5	2	2.2		1	2	244	0.11	5	2	1.1	0.16	4	2
2.53	0.09	3	4	1.91	0.20	5	4	2.56	0.09	5	4	1.2		1	2	2.06	0.07	5	4	1.79	0.18	4	4
2.0	0.06	3	4	1.58	0.12	5	4	1.97	0.23	5	4	1.0		1	2	1.95	0.08	5	4	1.02	0.05	4	4
204	2.14	3	2	13.2	0.64	5	2	7.3	1.06	5	2	6.8		1	2	15.6	1.02	5	2	—			
12.3	6.03	3	2	10.6	1.32	5	2	7.92	0.91	5	2	7.9		1	2	15.7	0.94	5	2	6.36	0.55	4	2
6.8	0.65	3	4	5.96	0.67	5	4	4.75	0.64	5	4	3.6		1	2	7.21	0.66	5	4	2.34	0.28	4	4
8.67	0.53	3	3	9.43	0.52	5	3	5.9	2.19	5	3	3.9		1	2	19.6	0.59	5	3	7.88	0.82	4	3
2.17	0.16	3	3	3.54	0.73	5	3	5.4	0.78	5	3	1.8		1	2	4.85	0.60	5	3	2.56	0.15	4	3
0		1	1	0		1	1	0		1	1	0		1	1	0		1	1	3		1	1
7		1	1	0		1	1	0		1	1	0		1	1	7		1	1	7		1	1
11D7		1	1	0		1	1	0		1	1	9D7		1	1	10C5		1	1	10A4		1	1
0		1	1	7		1	1	0		1	1	0		1	1	0		1	1	3		1	1
5E4		1	1	6E5		1	1	10F6		1	1	30B4		1	1	3C5		1	1	8D6		1	1
	green				green				green				green				green				red		
	green				brown				purple				green				green				slightly purple		

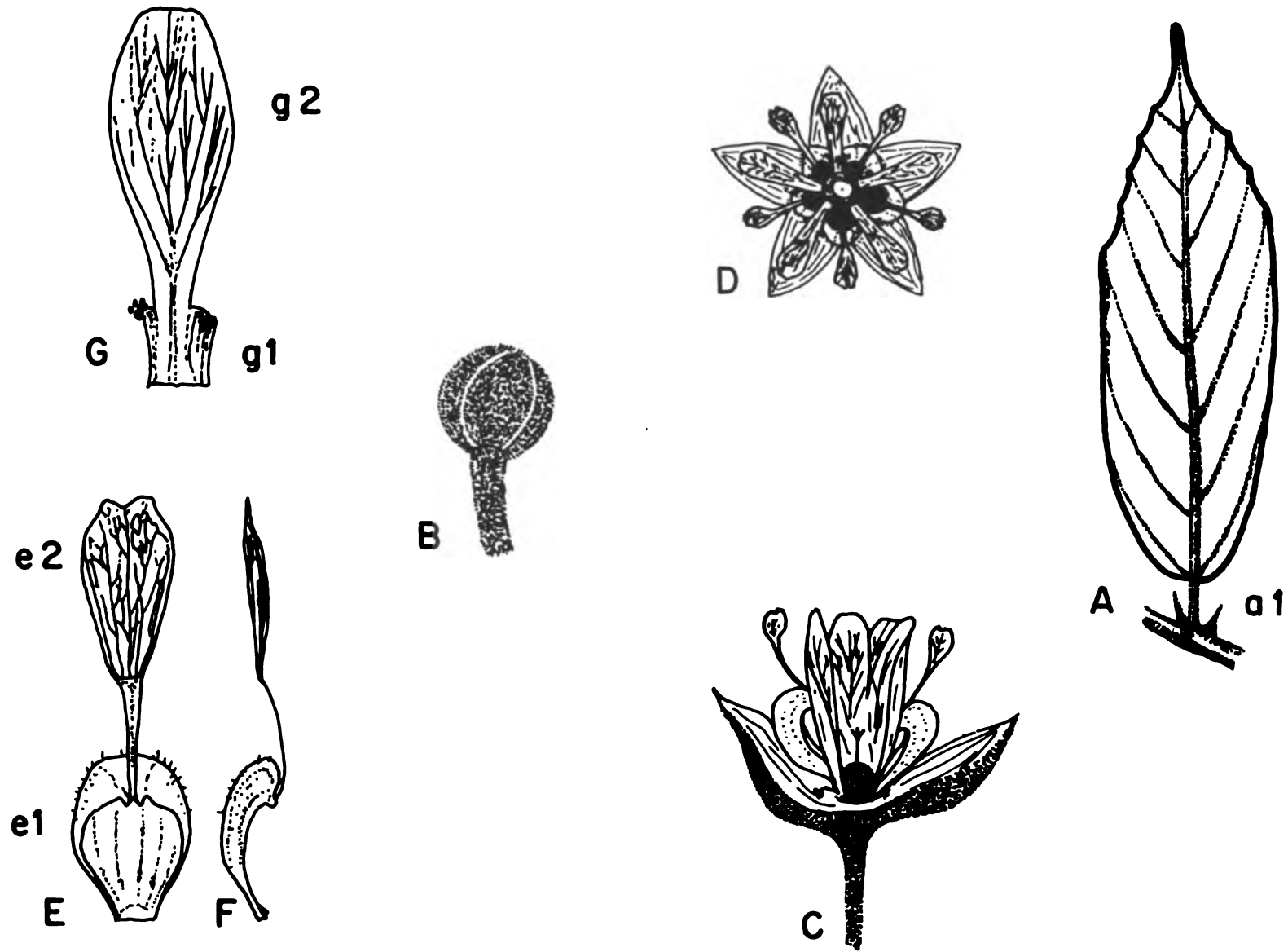


Fig. 7. *Theobroma angustifolium* Moçônio; A. young leaf (with brown hairs); a.1. stipule; B. flower bud (with brown hairs); C. flower, lateral cross-section; D. flower, top view; E. petal, inside view; e.1. ligule; e.2. cup; F. petal, lateral view; G. staminode and stamen; g.1. purple; g.2. yellow.

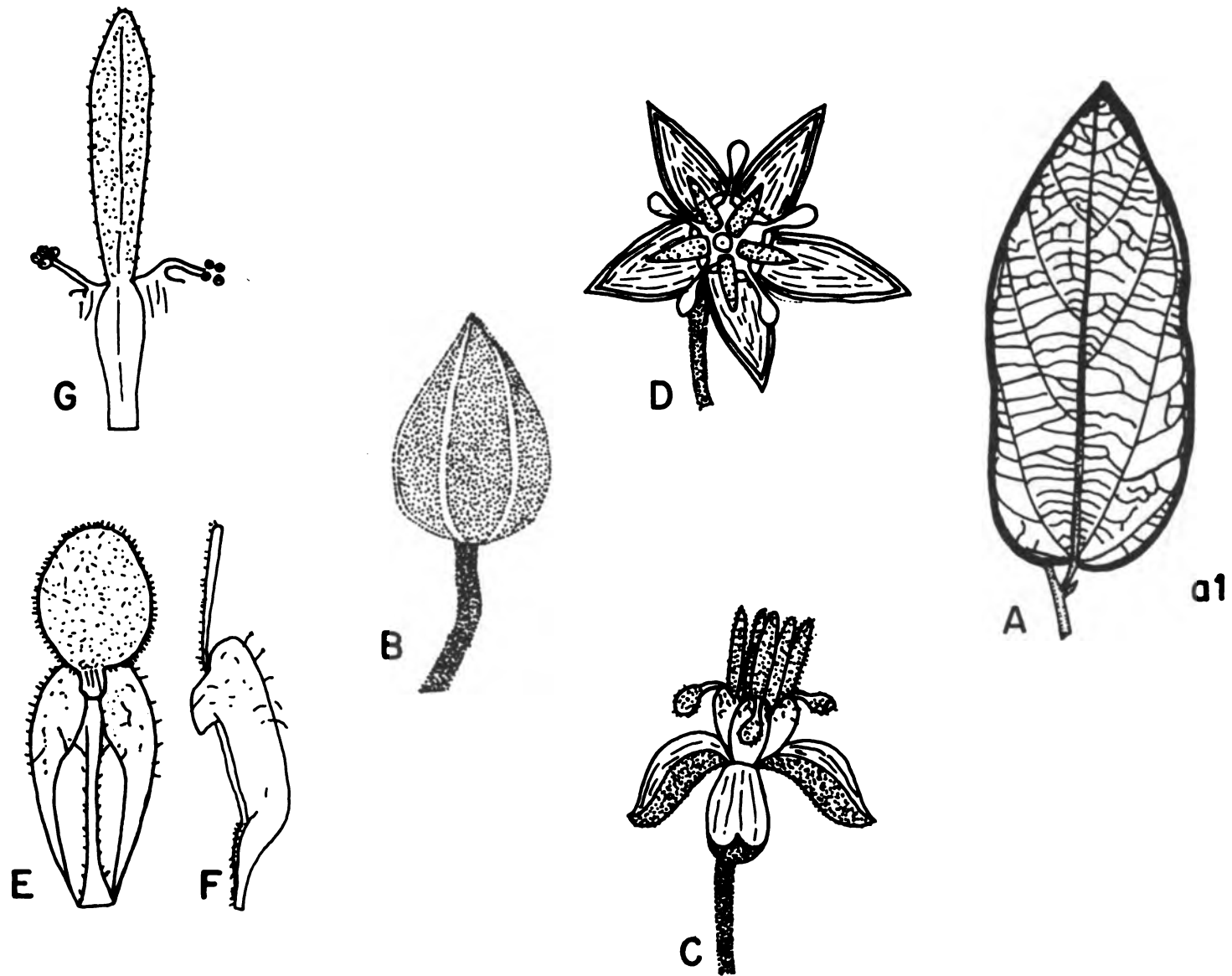


Fig. 8. *Theobroma bicolor*, Humb. and Bonpl.; A. young leaf; a.1. stipule; B. flower bud; C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

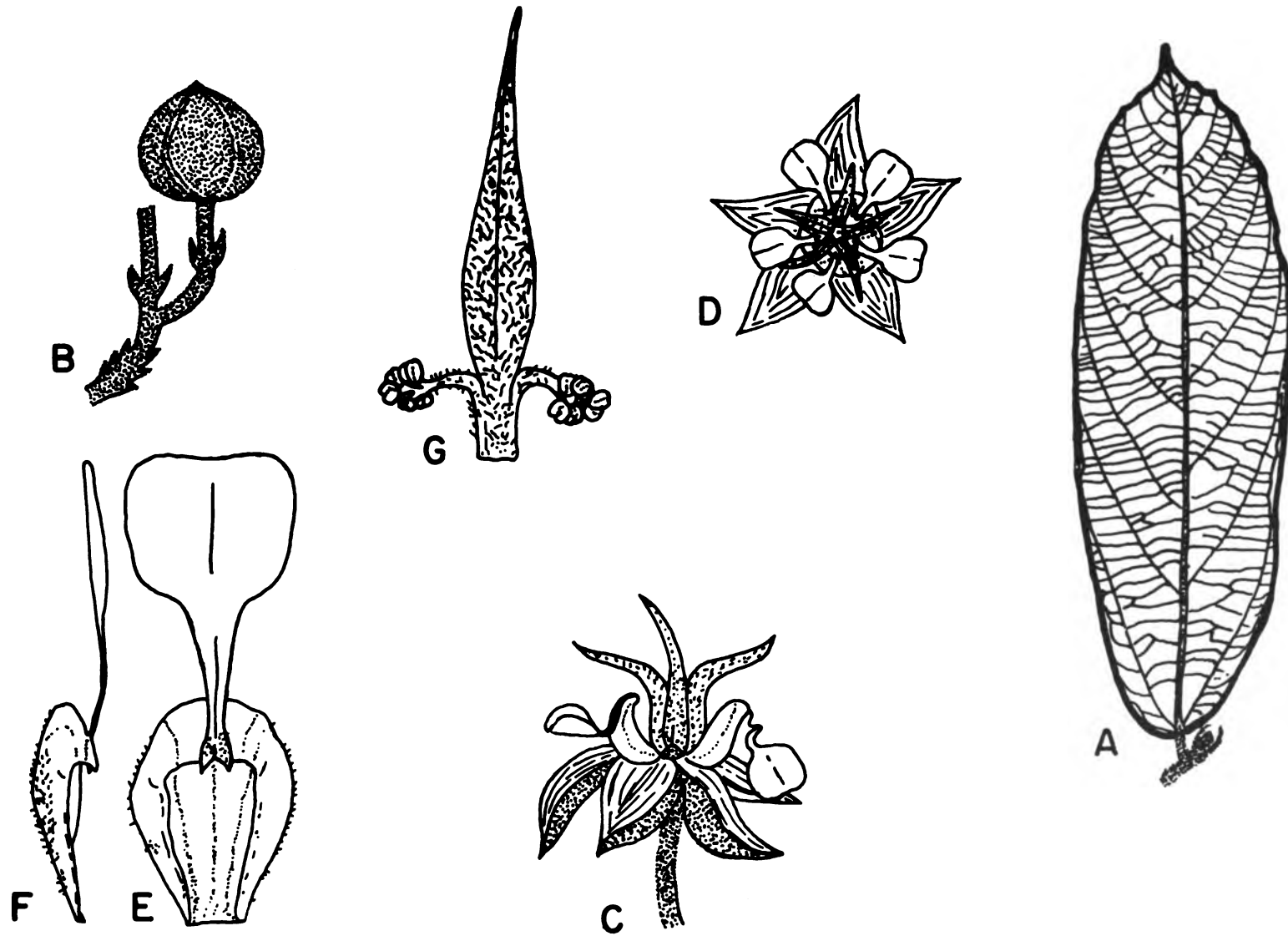


Fig. 9. *Theobroma grandiflorum* (Willd. ex Spreng.) Schum.; A. young leaf (very pubescent); B. flower bud (pubescent); C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

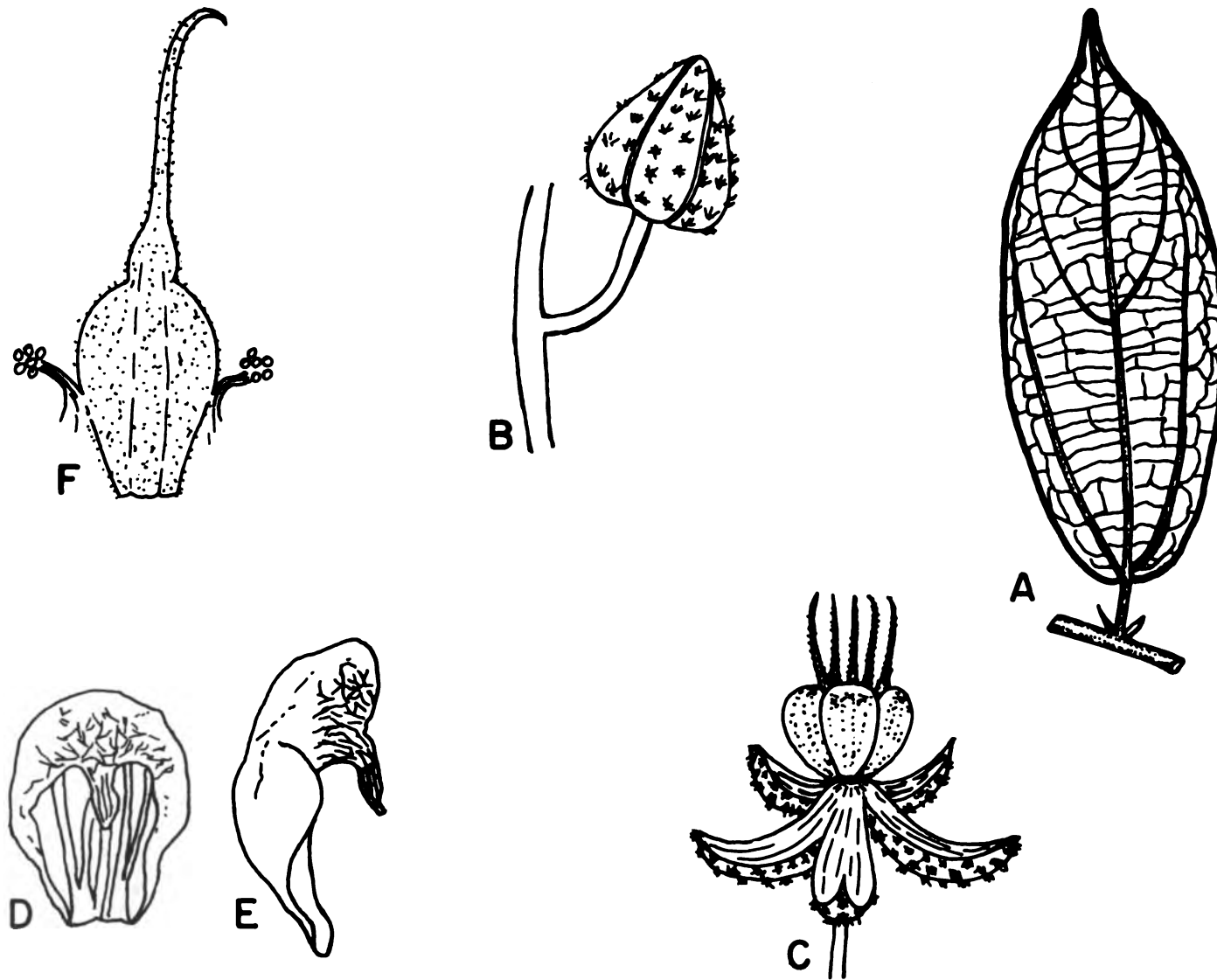


Fig. 10. *Theobroma microcarpum* Mart. A. young leaf; B. flower bud; C. flower, lateral view; D. petal, inside view; E. petal, lateral view; F. staminode and stamen.

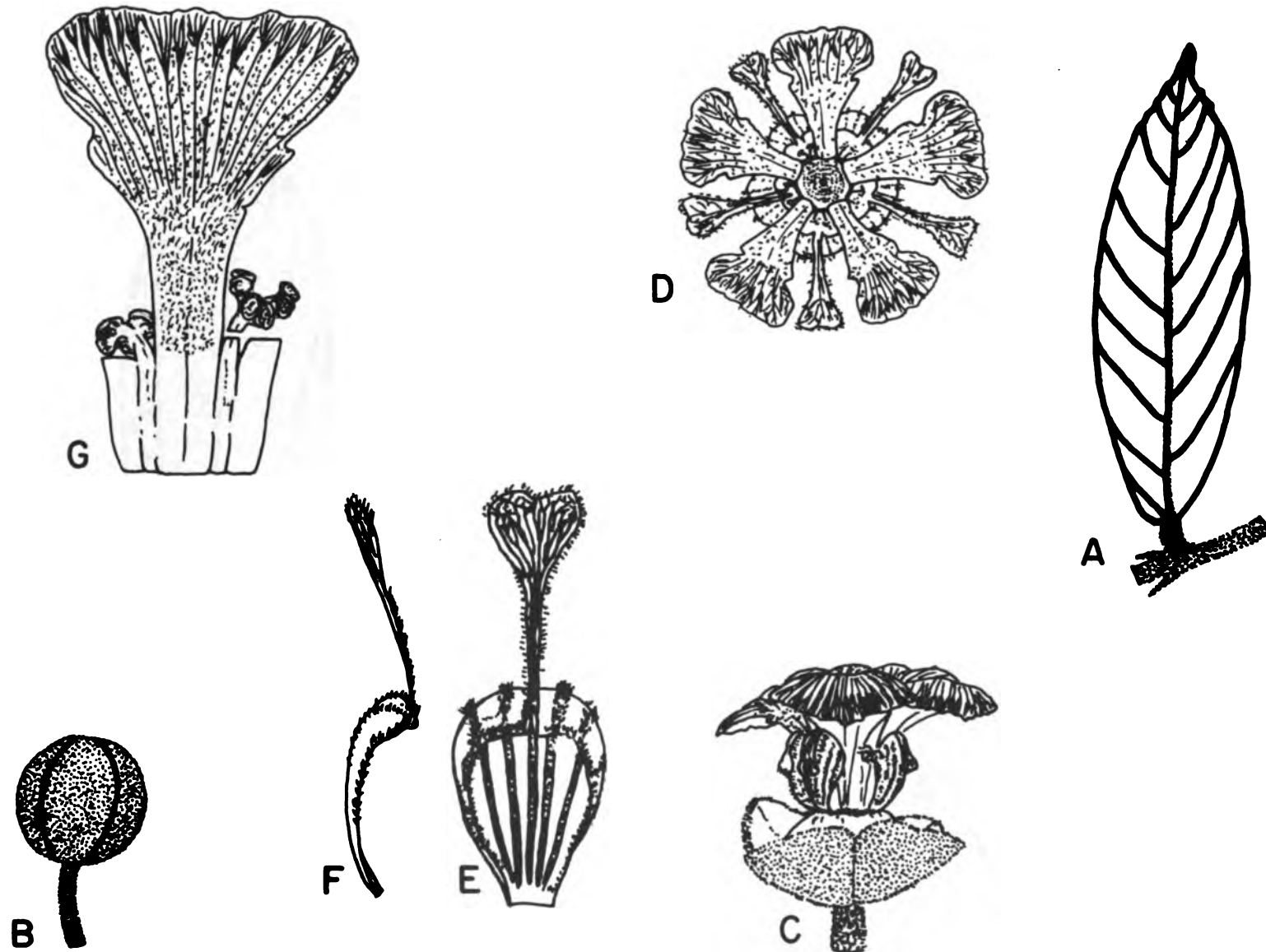


Fig. 11. *Theobroma mammosum* Cuatr. and León; A. young leaf; B. flower bud (with brown hairs); C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

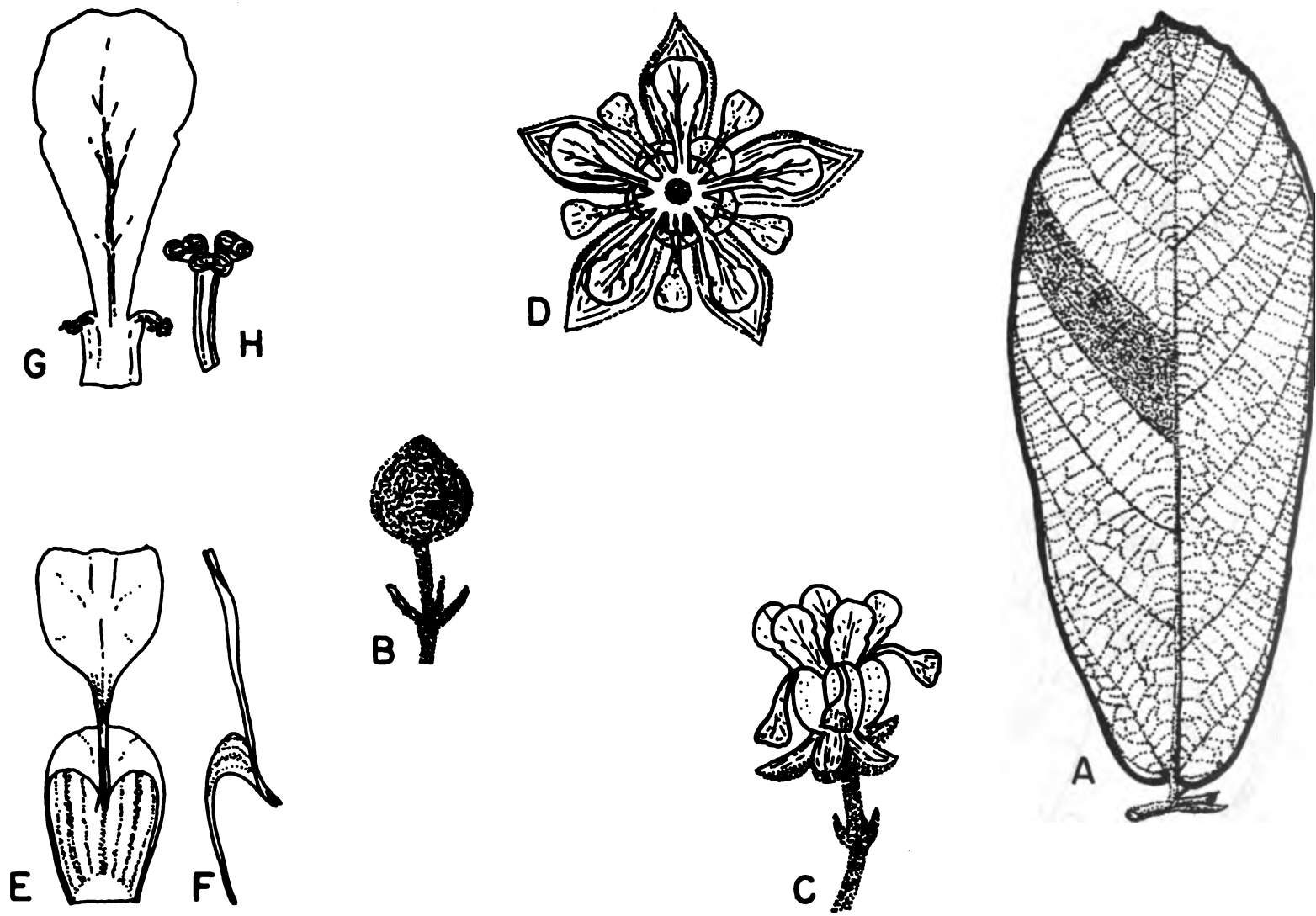


Fig. 12. *Theobroma simiarum* Donn. Smith; A. young leaf; B. flower bud (pubescent); C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode; H. stamen.

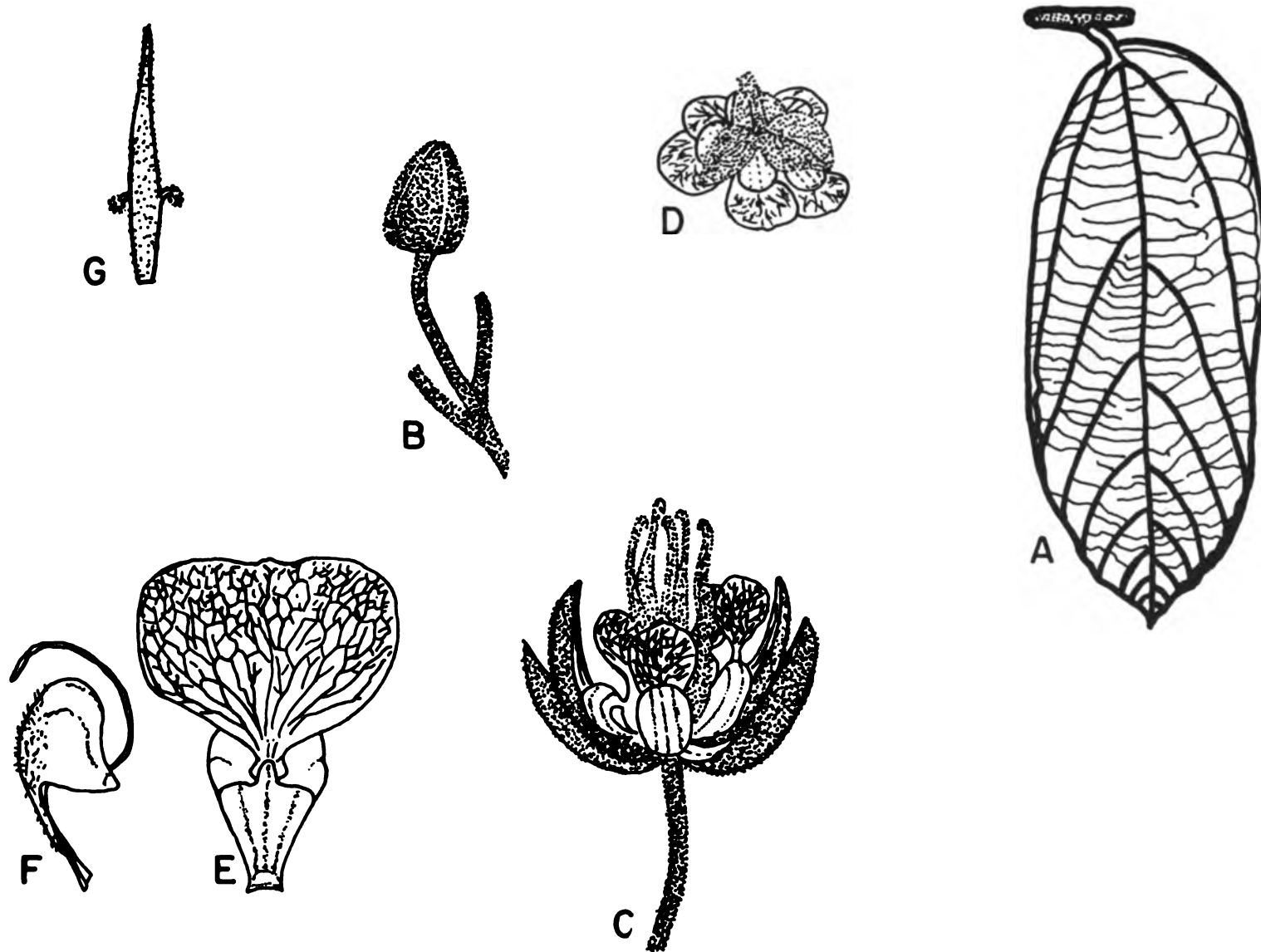


Fig. 13. *Theobroma speciosum* Willd.; A. young leaf; B. flower bud; C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

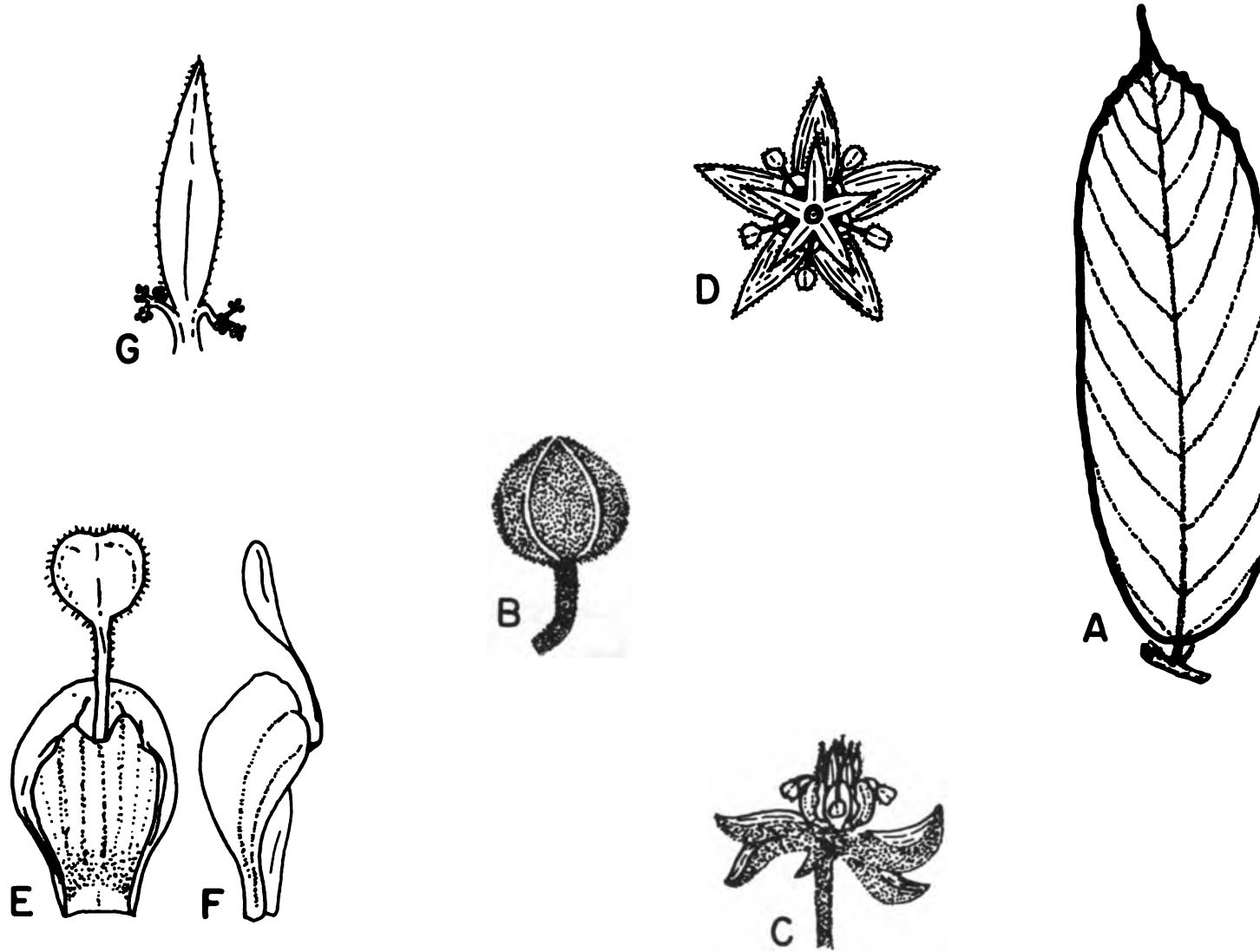


Fig. 14. *Theobroma subincanum* Mart.; A. young leaf; B. flower bud; C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

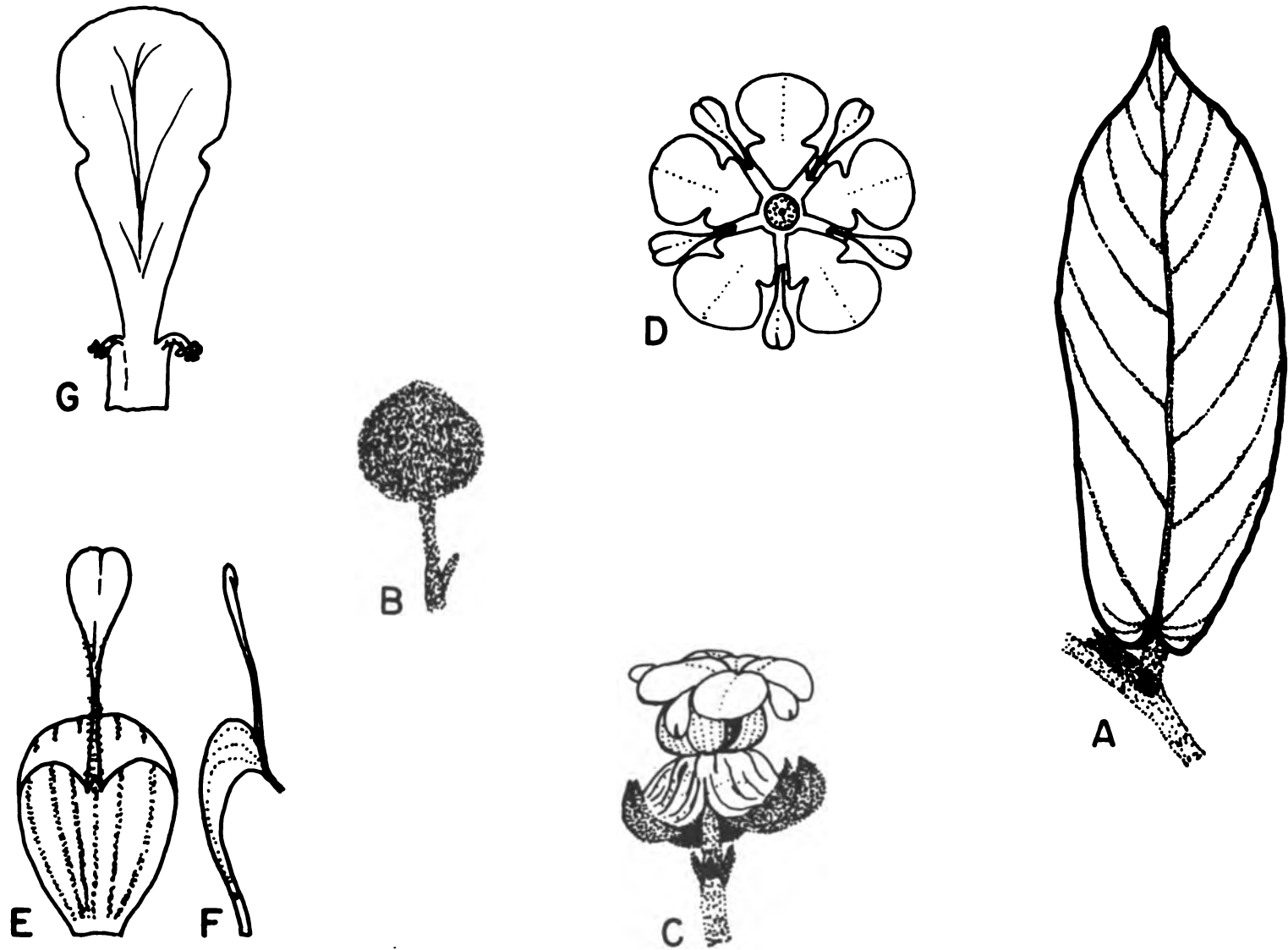


Fig. 15. F_1 of the cross *T. mammosum* x *T. simiarum*; A. young leaf (with brown hairs); B. flower bud (with brown hairs); C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode and stamen.

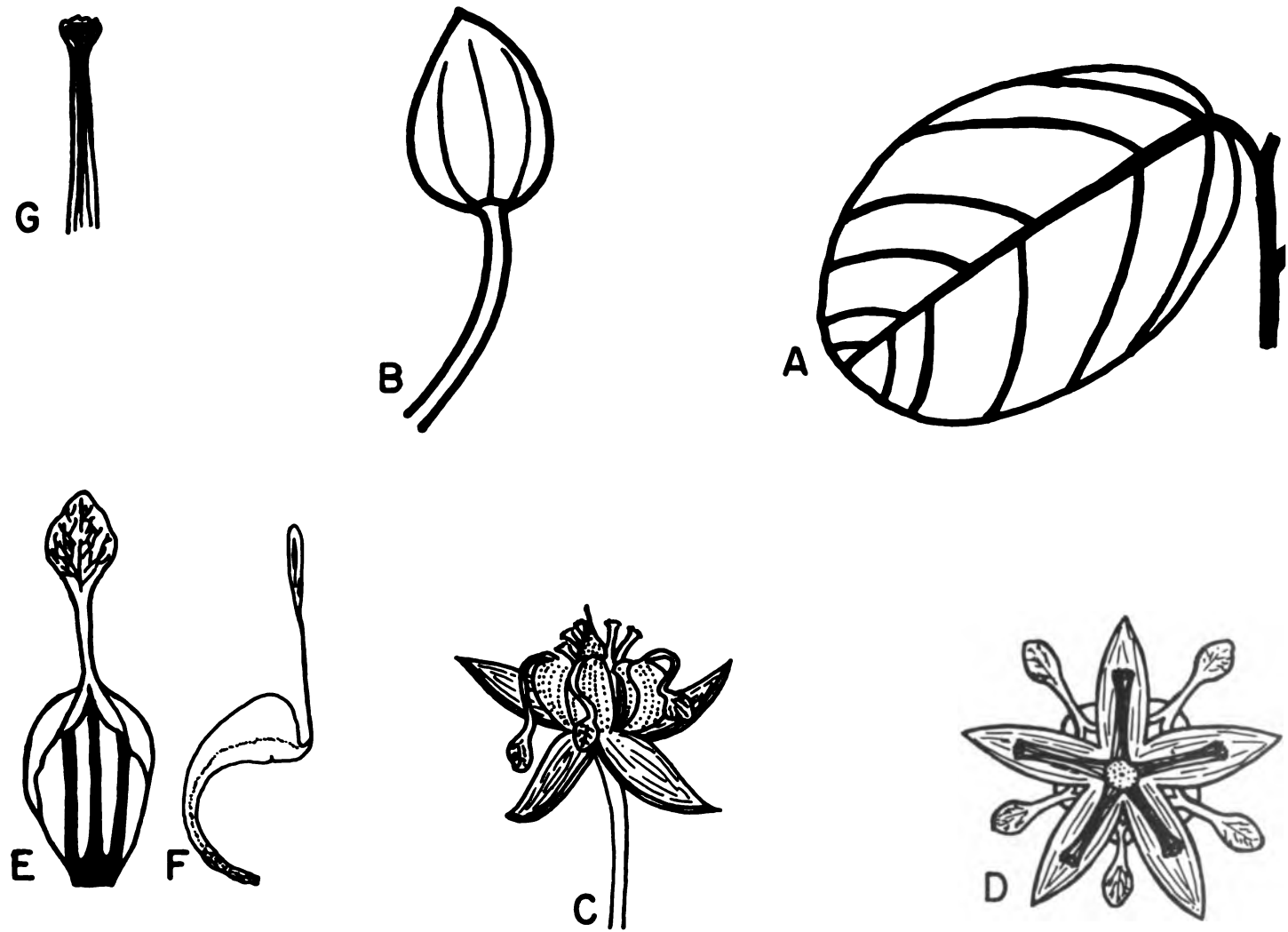


Fig. 16. *Theobroma cacao* cultivar 'Upala, mutation'; A. young leaf; B. flower bud; C. flower, lateral view; D. flower, top view; E. petal, inside view; F. petal, lateral view; G. staminode.

References

In the first part the references are given which were cited in the introduction to this catalogue.

The second part comprises those references which contain information on self-(in)compatibility and disease resistance. An effort was made to refer only to review articles and other publications which contain several pieces of information on various clones, to prevent too long a list. Therefore, the information is probably incomplete.

Cited references

- CUATRECASAS, J. Cacao and its allies. A taxonomic revision of the genus *Theobroma*. Contributions from the U.S. National Herbarium. 35:377-605. 1960.
- DIAZ ROMEU, R. and HUNTER, A. Metodología de muestreo de suelos, análisis químico de suelo y tejido vegetal e investigación en invernadero. Turrialba, Costa Rica, CATIE, Proyecto Centroamericano de Fertilidad de Suelos, 1978. 62 p.
- ENGELS, J. M. M. Descriptores de cacao (*Theobroma cacao* L.). Turrialba, Costa Rica, CATIE, Unidad de Recursos Genéticos/GTZ. 1977. 23 p.
- ENRIQUEZ, G. A. and SORIA, J. Cacao cultivars register. Turrialba, Costa Rica, IICA, 1967. 281 p.
- INTERNATIONAL BOARD FOR PLANT GENETIC RESOURCES. Genetic resources of cocoa. Rome, 25 p. 1981. (IBPGR, No. AGP: IBPGR/80/56).

KORNERUP, A. and WANSCHER, J. H. Methuen handbook of colour. London, Eyre Methuen, 1978. 252 p.

POUND, J. F. The genetic constitution of the cocoa crop. *In*: Imperial College of Tropical Agriculture, Port of Spain, Trinidad, Annual Report on Cocoa Research, n. 1:10-24. 1931.

SEIDEWITZ, L. Thesaurus for the international standardization of genebank documentation. 3. Root and tuber crops. Braunschweig Genebank, FAL. 1974. 56 p.

References on self-(in)compatibility and disease resistance

1. ENRIQUEZ, G. A. and SORIA, J. Mejora genética para resistencia a cinco enfermedades de cacao. Proceedings. Sixth International Cocoa Research Conference. Caracas, Venezuela, November 1977. Lomé, Togo 1981. 41-56 pp.
10. HARDY, F. Informe sobre la visita practicada a varias zonas cacaoteras en Colombia. IICA, Informe No. 9. 1957. 94 p.
13. INSTITUTO INTERAMERICANO DE CIENCIAS AGRICOLAS. Informe técnico 1961-1962. San José, Costa Rica, 1962.
22. HYLAND, H. L. Plant inventory No. 174. Washington, D.C., Department of Agriculture, 1969. 190 p.
27. POUND, J. F. The progress of selection. *In*: Imperial College of Tropical Agriculture, Port of Spain, Trinidad, Annual Report on Cacao Research, n. 3:25-28. 1933.

28. _____ . The progress of selection. *In*: Imperial College of Tropical Agriculture, Port of Spain, Trinidad, Annual Report on Cacao Research, n. 4:7-11. 1934.
30. CHEESMAN, E. E. Field experiments on the botanical section. *In*: Imperial College of Tropical Agriculture, Port of Spain, Trinidad, Annual Report on Cacao Research, n. 10:3-11. 1940.
36. GREGORY, P. H. *Phytophthora* disease of cocoa. London, Longman, 1974. 348 p.
37. SORIA, J. Cocoa research in Latin America. *In*: J. Simmonds (ed.). Cocoa production; economic and botanical perspectives. New York, Praeger, 1976. pp. 299-337.
40. VELLO, F. Estudio preliminar sobre la influencia del origen de los padres en la expresión del vigor híbrido en plántulas de cacao. Tesis Mag. Agr. Turrialba, Costa Rica, IICA, 1963. 61 p.
41. SORIA, J. The present status and perspectives for cacao cultivars in Latin America. American Society for Horticultural Science, Tropical Region. Proceedings. 14:53-65. 1970.
42. ENRIQUEZ, G. A. and SORIA, J. Cacao cultivar register. Turrialba, Costa Rica, IICA, 1967. 146 p.
43. SORIA, J. and ENRIQUEZ, G. A. (eds.). International Cacao Cultivar catalogue. CATIE, Turrialba, Costa Rica, 1981 (in press). Technical Series. Technical Bulletin No. 6.
44. SODERHOLM, P. K. and CARRIS, M. C. Cacao clones in the germplasm collection of the U.S. Department of Agriculture. Washington, D.C., Department of Agriculture, 1979. 18 p.

CATALOG PART I

**COMPLETELY DESCRIBED CLONES
(See flap at the end of part II)**

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10091	B	22	7	APA-4			COLOMBIA	VALLE	PALMIRA			
10092	B	27	7	APA-5			COLOMBIA	VALLE	PALMIRA			
10102	H	55	5	BE-10			BRASIL	BELEN				
10103	H	69	8	BS-2			HONDURAS		BUENOS AIRES			
10108	C	62	7	CAS-1			BRASIL	PARA	SANTAREM	3	CAMPO AGRIC. SANTAREM	
10109	C	63	8	CAS-3			BRASIL	PARA	SANTAREM			
10113	B	33	6	CATONGO BLANCO			BRASIL	BAHIA				
10114	I	16	19	CATONGO BLANCO			BRASIL	BAHIA				
10125	B	5	9	CATONGO-0			BRASIL	BAHIA				
10128	I	25	16	CATONGO X SELF			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10132	D	16-17	7	CC-9			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10133	D	16-17	7	CC-10			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10134	D	16-17	6	CC-17			COSTA RICA	LIMON	20 MILLAS	3	LA LOLA	1
10135	C	22-23	8	CC-18			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10136	D	16-17	6	CC-27	STICA LL-9		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10139	C	26	27	CC-34	STICA LL-16		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10140	D	20	21	CC-35			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10142	D	20-21	4	CC-37			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10143	D	18-19	5	CC-38			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10144	C	30-31	8	CC-39			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10145	C	28-29	7	CC-40			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10146	D	18-19	8	CC-41			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10147	D	18-19	7	CC-42			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10148	C	28-29	4	CC-43			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10149	D	20-21	7	CC-44			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1

TUIR accession number	Pedigree	General			Production						Seed											
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm	
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV		
																					Ratio seed width/seed length	
10091		1978	12	35.1	.97	5	42	1.43	07.0	.97	08.8	0.67	29.5	29.5	0.70	0.048	22.7	04.2	0.48			
10092		1979	01	29.8	1.04	7	43	1.6	08.3	1.04	08.1	0.65	32.3	25.1	0.75	0.042	23.1	03.2	0.49			
10102		1980	05	27.5	.98	3	49	1.53	19.1	.98	22.4	0.64	37.1	26.7	0.76	0.051	22.7	07.5	0.52			
10103		1980	06	27.4	1.01		49	1.73	07.3	1.01	11.3	0.58	33.8	22.2	0.59	0.057	23.0	04.3	0.52			
10108	"COMUM"	1980	07	29.2	1.1	2	43	1.7	14.1	1.1	17.0	0.65	31.1	31.2	0.72	0.063	24.9	06.8	0.49			
10109		1980	08	25.5	1.25	6	46	1.87	09.6	1.25	09.1	0.67	31.5	30.8	0.68	0.063	26.0	05.4	0.48			
10113		1979	04	30.0	.95	0	50	1.37	17.4	.95	20.3	0.69	34.3	24.9	0.69	0.064	23.4	07.5	0.51			
10114		1980	07	35.7	1.17		49	1.65	08.5	1.17	08.5	0.71	32.9	24.3	0.69	0.059	24.5	07.3	0.49			
10125		1979	05	22.6	1.14	3	48	1.76	14.4	1.14	15.9	0.65	34.1	29.2	0.71	0.065	24.5	08.6	0.51			
10128	CATONGO	1980	07	34.0	1.2		48	1.73	09.2	1.2	08.3	0.69	35.3	24.4	0.74	0.057	25.0	05.6	0.47			
10132	MATINA	1978	04	28.8	1.11	5	41	1.77	08.3	1.11	05.9	0.63	31.4	28.7	0.72	0.078	23.9	05.6	0.51			
10133	MATINA	1978	05	18.8	1.75	3	41	2.83	18.8	1.75	20.2	0.62	30.4	20.1	0.70	0.058	28.8	05.9	0.56			
10134	MATINA	1978	05	19.4	2.03	3	45	3.07	15.4	2.03	13.8	0.66	25.4	29.5	0.56	0.044	29.3	06.5	0.55			
10135	MATINA	1978	04	19.7	1.43	5	46	2.3	10.4	1.43	14.9	0.62	35.5	21.7	0.77	0.062	25.6	05.9	0.53			
10136	MATINA	1978	05	20.9	1.54	4	41	2.89	11.2	1.54	10.9	0.62	31.1	24.6	0.76	0.052	26.2	09.7	0.59			
10139	MATINA	1978	05	20.4	1.32	7	49	2.01	11.0	1.32	11.9	0.66	37.1	22.9	0.76	0.066	24.6	07.1	0.54			
10140	UF-650	1978	03	17.1	1.77	4	46	2.79	19.0	1.77	20.5	0.63	34.5	08.9	0.75	0.056	26.4	06.4	0.53			
10142	UF-667	1978	05	20.8	1.38	4	45	2.23	15.9	1.38	14.5	0.62	34.9	23.2	0.78	0.074	25.6	03.1	0.57			
10143	UF-676 X MATINA	1978	03	23.1	1.11	7	50	1.75	17.1	1.11	16.1	0.64	38.9	22.1	0.78	0.083	24.5	02.8	0.56			
10144	UF-666	1978	05	20.9	1.15	7	41	1.78	14.3	1.15	11.0	0.65	30.0	07.1	0.73	0.068	23.8	05.9	0.55			
10145	UF-675	1978	05	27.1	.99	7	48	1.58	15.2	.99	10.7	0.63	37.2	09.1	0.77	0.094	24.6	04.6	0.56			
10146	UF-676	1978	03	23.7	1.19	6	48	1.93	10.3	1.19	09.7	0.62	35.3	24.6	0.74	0.068	24.2	04.3	0.57			
10147	UF-676	1978	04	29.4	1.04	6	44	1.77	14.5	1.04	18.3	0.59	32.7	34.0	0.74	0.071	25.0	04.5	0.54			
10148	UF-667	1980	04	22.2	.85	5	48	1.29	11.9	.85	15.7	0.66	38.2	18.6	0.80	0.082	22.6	4.0	0.47			
10149	UF-667	1978	03	20.4	1.43	7	46	2.23	12.6	1.43	11.8	0.64	34.2	33.3	0.74	0.046	24.6	04.9	0.61			

TUP accession number	Seed										Fruit																		
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in ridges			
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10091	11.0	05.2	08.4	11.1	0	0	0	+	0	161	08.8	097	04.4	0.60			614	19.9	13.6	08.8	09.9	09.7	28B3	0	0	0			
10092	11.3	04.3	08.4	06.8	0	0	0	+	0	169	09.3	101	07.5	0.60			767	22.1	14.0	10.9	10.8	10.3	28B3	0	0	0			
10102	11.9	07.6	08.6	12.8	0	0	0	+	0	188	11.0	091	11.0	0.48	0.48		725	26.5	14.8	13.5	09.9	10.4	29C7	0	0	0			
10103	11.9	06.7	08.8	06.8	+	0	+	0	+	190	11.6	087	10.3	0.46	0.49		596	30.5	13.1	16.0	08.4	15.5	30D8	0	0	0			
10107	12.2	04.9	08.2	08.5	0	0	+	+	0	159	10.1	086	09.3	0.54	0.53		494	28.1	09.7	16.5	06.5	16.9	30D5	0	0	0			
10109	12.5	04.8	08.4	08.3	0	0	+	0	0	164	09.1	085	08.2	0.52	0.53		499	26.4	09.6	10.4	06.5	16.9	30E8	0	0	0			
10113	12.1	08.0	07.6	17.0	+	0	+	+	0	136	11.0	088	11.2	0.65			501	29.1	11.7	10.4	08.4	12.0	30F3	0	0	0			
10114	12.0	05.0	08.2	08.5	+	0	+	+	0	142	12.7	095	07.4	0.47	0.48		560	27.3	11.3	15.9	08.3	14.9	30C6	0	0	0			
10125	12.5	03.9	08.1	12.3	+	0	+	+	0	130	09.3	091	07.7	0.70			524	20.6	10.8	13.2	07.9	16.1	28B3	0	0	0			
10128	11.7	05.1	08.1	08.6	+	0	+	+	0	147	08.2	097	07.2	0.65	0.53		615	21.1	11.8	13.5	08.9	14.6	29C7	0	0	0			
10132	12.3	03.8	09.0	05.9	0	0	0	+	0	156	13.2	077	08.9	0.50			404	27.6	11.4	13.4	07.3	17.8	30C5	0	0	0			
10133	16.1	06.8	10.5	13.3	0	0	+	0	0	174	10.9	083	09.6	0.48			524	25.2	11.7	19.6	08.4	17.9	30C6	0	0	0			
10134	16.1	08.7	11.3	15.9	0	0	0	+	0	180	12.8	084	09.5	0.47			584	27.4	11.8	10.2	08.2	15.8	30C6	0	0	0			
10135	13.5	08.1	10.1	08.9	0	0	+	0	0	175	13.1	085	08.2	0.49			575	24.7	12.1	09.9	08.1	11.1	29B3	0	0	0			
10136	15.4	05.0	09.1	08.1	0	0	0	+	0	143	11.0	095	13.1	0.67			600	26.9	12.9	11.4	08.9	14.5	30C4	2	2	0			
10139	13.3	04.8	09.8	14.3	0	0	0	+	0	187	10.1	083	09.0	0.44			565	25.8	13.2	06.1	06.8	19.1	30E5	0	0	0			
10140	14.1	11.2	09.8	10.8	0	0	0	+	0	185	15.2	085	10.5	0.46			614	30.3	12.5	15.5	08.1	16.2	30B3	0	0	0			
10142	14.7	06.8			0	0	+	0	0	161	11.8	081	09.9	0.50			472	29.0					30B4	9	5	6			
10143	13.8	05.6	08.2	08.0	0	0	0	+	0	144	10.4	086	10.1	0.60			470	32.4	11.0	14.4	07.2	15.8	30C4	0	0	0			
10144	13.1	05.1	10.3	08.7	0	0	0	+	+	160	10.2	081	12.1	0.50			515	25.8	16.5	07.9	09.3	09.7	29B3	0	0	0			
10145	13.8	06.7	07.8	10.2	0	0	0	+	0	138	10.9	082	08.1	0.60			397	24.8	11.8	10.2	06.6	16.7	28B3	0	0	0			
10146	13.7	04.7	08.6	05.6	0	0	0	+	0	158	10.1	085	08.3	0.54			523	22.5	11.7	11.4	07.9	15.8	30B3	0	0	0			
10147	13.5	05.9	08.5	11.4	0	0	+	0	0	143	12.5	079	10.1	0.56			459	25.0	11.6	09.8	07.9	12.6	30C4	4	1	0			
10148	10.6	3.8	8.2	4.9	0	0	+	0	0	206	11.3	74	9.8	0.36	0.46		467	30.0	12.3	9.8	6.3	19.0	29E8	0	0	0			
10149	14.9	08.1	09.6	14.6	0	0	0	+	0	183	11.7	093	09.2	0.51			743	26.6	15.3	11.5	09.9	12.6	30B3	0	0	0			

TUR accession number	Fruit								Flower																
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm		
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean
10091	0	0.65	3	3	1	1	3	2.27	0.18	1.46	0.09	0.95	0.09	6.25	0.27	7.94	0.66	2.20	0.27	7.70	0.65	2.14	0.25		
10092	0	0.65	1	3	1	0	7	2.30	0.11	1.17	0.09	0.96	0.05	7.40	0.29	8.26	0.34	2.32	0.31	7.57	0.46	2.56	0.34		
10102	0	0.72	5	4	5	5	7	2.46	0.30	1.70	0.30	1.00	0.10	8.60	0.60	9.70	0.51	2.60	0.20	9.30	0.80	2.10	0.30		
10103	0	0.89	3	3	5	2	7	1.90	0.20	1.80	0.10	0.90	0.10	7.20	0.40	7.90	0.30	2.00	0.40	8.30	0.70	2.30	0.20		
10107	0	0.96	1	2	4	5	7	2.43	0.21	1.27	0.09	1	0.03	6.69	0.28	7.82	0.45	2.07	0.18	7.11	0.50	2.12	0.24		
10109	0	0.88	1	1	5	5	7	2.61	0.11	1.47	0.15	1.10	0.06	8.04	0.29	9.38	0.64	2.02	0.12	8.19	0.29	2.42	0.33		
10113	0	0.72	3	0	1	1	7	2.46	0.15	1.48	0.10	1.02	0.04	7.98	0.62	8.58	0.27	2.35	0.28	7.69	0.45	2.19	0.15		
10114	0	0.88	3	2	3	1	7	2.40	0.10	1.30	0.10	1.02	0.04	7.80	0.60	7.80	0.40	2.20	0.30	7.80	0.40	2.30	0.20		
10125	0	0.92	3	3	1	0	7	2.12	0.10	1.42	0.09	1.01	0.03	7.62	0.44	7.99	0.80	2.18	0.25	7.59	0.52	2.36	0.35		
10128	0	0.98	1	2	3	1	7	2.15	0.08	1.32	0.08	1.02	0.04	7.94	0.48	8.32	0.53	2.62	0.21	7.63	0.64	2.63	0.29		
10132	0	0.70	6	3	3	5	5	2.47	0.10	1.32	0.09	0.98	0.10	6.80	0.36	8.08	0.40	1.97	0.19	7.61	0.35	2.11	0.31		
10133	0	0.60	3	3	5	3	5	2.01	0.13	1.21	0.08	0.94	0.08	7.73	0.45	9.07	0.64	2.31	0.26	8.17	0.60	2.88	0.22		
10134	0	0.65	5	3	5	3	3	2.04	0.11	1.35	0.06	0.98	0.04	7.68	0.54	9.16	0.48	2.14	0.22	8.11	0.63	2.71	0.21		
10135	0	0.61	2	5	5	0	3	2.13	0.11	1.25	0.09	1.02	0.04	8.50	0.42	9.15	0.92	2.43	0.21	7.25	0.51	2.38	0.24		
10136	0	0.75	1	2	3	0	5	1.94	0.16	1.22	0.14	0.82	0.11	7.51	0.17	9.71	0.70	2.52	0.27	8.33	0.37	3.15	0.11		
10139	0	0.63	7	3	5	5	3	2.44	0.12	1.39	0.09	1.05	0.06	7.54	0.43	9.05	0.33	2.45	0.29	8.29	0.61	2.63	0.20		
10140	0	0.67	7	7	5	5	3	2.08	0.08	1.32	0.08	0.97	0.05	8.10	0.50	10.25	0.54	2.53	0.16	8.57	0.56	2.4	0.22		
10142	0	0.77	4	5	7	0	3	1.90	0.10	1.30	0.20	1.00	0.08	6.90	0.30	8.10	0.90	2.20	0.20	7.30	0.80	2.30	0.20		
10143	0	0.55	4	3	3	3	3	2.10	0.16	1.42	0.1	0.94	0.08	6.6	0.31	8.3	0.32	2.0	0.11	7.1	0.57	2.0	0.13		
10144	0	0.61	2	3	5	1	3	2.26	0.18	1.39	0.11	1.01	0.06	7.4	0.47	7.89	0.41	2.38	0.26	7.45	0.60	2.89	0.19		
10145	0	0.62	5	3	3	1	3	2.23	0.16	1.19	0.13	0.95	0.05	7.21	0.35	8.0	0.67	2.04	0.20	7.15	0.30	2.07	0.18		
10146	0	0.68	5	3	3	3	7	2.01	0.11	1.43	0.11	0.99	0.04	7.13	0.28	9.35	0.57	2.11	0.14	8.11	0.61	2.09	0.15		
10147	0	0.75	4	0	3	3	3	2.30	0.20	1.58	0.07	1.06	0.05	7.60	0.40	9.01	0.38	2.30	0.21	8.20	0.50	2.30	0.20		
10148	0	0.84	5	7	9	3	5	2.50	0.08	1.43	0.07	1.04	0.05	7.91	0.49	9.16	0.64	2.40	0.20	8.68	0.40	2.58	0.26		
10149	0	0.73	6	5	5	3	3	2.21	0.24	1.73	0.13	1.02	0.13	8.00	0.41	9.20	0.40	2.20	0.20	8.10	0.60	2.10	0.20		

TUR accession number	Flower						Leaf		Compatibility and resistance					Notes		
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crinipellis perniciosa</i>	References	<i>Monilia roleri</i>		References	<i>Ceratocystis fimbriata</i>
10091	7	3	10A3	0	30B5	7D6										
10092	7	0	9A2	0	30B5	6D6										
10102	3	3	9A4	0	30C5	6E8										
10103	3	3	9A4	0	30C5	8D6										
10108	7	0	10A4	0	29D5	8D7			T-R	1						
10109	2	7	10A3	0	28D6	9D7										
10113	0	0	1A2	0	30B5	1C7			T-R	1						
10114	0	0	1A2	0	30C5	2B4										
10125	0	0	1A2	0	30D5	1D5										
10128	0	0	1A2	0	29C6	1C5										
10132	3	3	8A2	0	30A3	8C7	+	43					T	43		GOOD COMBINING ABIL
10133	7	3	10A5	0	30B5	9D8	+	41, 42, 43	G	43						
10134	7	3	10A4	0	30A3	9C7										
10135	0	3	10A4	0	29C4	8D6										
10136	3	7	10A4	0	30B4	8C7										
10139	3	7	10A4	0	30B4	5B5										
10140	7	3	10A4	0	30B4	8D7										
10142	3	0	9A3	0	29D4	9D7										
10143	3	3	10A2	0	30A3	8E8	+	36, P	T-R	1						
10144	0	0	10A3	0	30C4	8C6	+	43	G	43						
10145	0	3	9A2	0	30C4	9D7	0	13, 22								
10146	3	3	9A4	0	30A3	8C6	+	41	T-R	1						
10147	1	1	9A3	0	30D5	7E8			T-R	1						
10148	7	0	10A3	0	30B5	9D7										
10149	7	1	9A4	3	30B4	10D7	+	P								

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10150	C	28-29	6	CC-45			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10151	D	18-19	6	CC-46			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10152	C	28-29	6	CC-47			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10153	C	30-31	6	CC-48			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10154	C	30-31	8	CC-49			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10155	C	30-31	4	CC-52			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10158	D	14-15	6	CC-67			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10159	D	14-15	8	CC-69			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10160	D	14-15	8	CC-71			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10161	D	14-15	5	CC-74			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10162	C	24-25	7	CC-79			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10163	C	24-25	8	CC-83			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10164	H	19	11	CC-99			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10165	C	24-25	7	CC-100			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10166	C	24-25	4	CC-102			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10167	D	12-13	6	CC-103			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10168	D	12-13	6	CC-106			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10169	D	12-13	6	CC-107			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10170	C	22-23	3	CC-120			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10171	C	22-23	8	CC-121			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10172	D	12-13	5	CC-124			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10175	C	22-23	4	CC-132			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10177	D	10-11	8	CC-137			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10178	D	10-11	7	CC-138			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10179	D	10-11	7	CC-139			COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1

TUR accession number	Pedigree	General				Production						Seed								
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number	Ratio number of seeds/fruit weight	Seed length in mm		Ratio seed width/seed length
								mean	CV	mean	CV	mean	CV	mean	CV			mean	CV	
10150	UF-654	1978	05	33.8	.99	7	40	1.59	07.5	.99	08.1	0.62	29.8	25.9	0.74	0.073	22.7	06.9	0.59	
10151	UF-654	1978	02	23.5	1.35	7	43	2.13	10.3	1.35	16.4	0.63	31.5	26.7	0.73	0.058	24.5	03.7	0.60	
10152	UF-654	1978	05	29.2	1.00	7	43	2.05	15.0	1.00	09.9	0.53	31.7	24.6	0.74	0.077	24.9	03.2	0.53	
10153	UF-676	1978	05	25.6	1.23	5	42	2.12	10.2	1.23	12.3	0.58	31.7	07.3	0.75	0.079	24.9	06.6	0.53	
10154	UF-676	1978	05	28.5	.99	7	48	1.85	23.2	.99	21.9	0.53	33.7	29.0	0.70	0.076	23.9	06.7	0.56	
10155	UF-613	1978	05	17.7	1.6	7	48	2.57	11.9	1.6	08.3	0.62	35.3	29.5	0.74	0.039	27.6	05.4	0.51	
10158		1978	03	25.2	1.23	5	41	1.92	13.9	1.23	14.7	0.64	32.4	24.5	0.79	0.060	24.1	08.0	0.56	
10159		1978	05	14.3	1.96	1	45	3.16	09.0	1.96	09.5	0.62	35.8	20.7	0.80	0.042	28.7	05.8	0.57	
10160		1978	07	24.6	1.56	1	40	2.73	10.0	1.56	10.7	0.57	26.1	36.0	0.65	0.042	28.1	07.5	0.50	
10161	UF-677	1978	01	22.9	1.56	9	40	2.43	13.8	1.56	14.4	0.64	28.0	39.0	0.70	0.060	25.8	05.7	0.59	
10162	UF-613	1978	04	16.0	1.03	5	40	3.31	12.7	1.03	15.7	0.55	32.5	16.8	0.81	0.041	28.0	05.8	0.58	
10163	UF-613	1978	05	27.0	1.27	0	42	2.11	11.1	1.27	14.8	0.60	29.2	31.1	0.70	0.054	25.5	03.1	0.49	
10164		1978	08	29.4	.89	3	47	1.35	20.4	.89	19.8	0.66	38.3	18.0	0.81	0.077	22.9	08.2	0.48	
10165	UF-667	1978	05	22.4	1.48	5	45	2.28	28.1	1.48	27.7	0.65	30.2	34.2	0.67	0.056	26.8	05.6	0.57	
10166	UF-667	1979	02	29.5	1.15	2	40	1.89	09.2	1.15	09.9	0.61	29.6	23.6	0.74	0.035	25.8	06.1	0.55	
10167	UF-667	1978	04	33.4	.97	2	43	1.61	15.7	.97	17.1	0.60	30.8	26.6	0.72	0.038	24.8	05.6	0.57	
10168	UF-221	1978	05	20.0	1.59	6	42	2.63	15.2	1.59	13.7	0.60	33.9	24.7	0.81	0.059	28.3	08.5	0.53	
10169	UF-221	1978	04	21.8	1.32	6	46	2.13	15.0	1.32	16.7	0.62	34.7	18.8	0.75	0.071	25.9	06.8	0.55	
10170	UF-650	1978	04	16.0	1.7	5	45	2.31	07.7	1.7	09.6	0.73	35.1	19.8	0.78	0.060	27.6	04.3	0.56	
10171	UF-650	1978	04	20.1	1.59	0	39	2.47	11.9	1.59	10.5	0.64	31.3	19.5	0.80	0.065	28.0	05.0	0.58	
10172	UF-613	1978	04	29.2	1.39	5	35	2.19	09.7	1.39	11.5	0.63	24.7	18.6	0.71	0.041	27.4	03.6	0.47	
10175	UF-650	1978	04	16.3	1.67	5	47	2.51	13.0	1.67	06.4	0.66	36.9	21.4	0.79	0.057	25.9	05.4	0.57	
10177	UF-12	1978	03	21.6	1.59	6	41	2.49	10.2	1.59	12.6	0.64	29.2	25.7	0.71	0.057	27.7	05.8	0.57	
10178	UF-12	1978	03	22.0	1.46	3	39	2.35	10.2	1.46	10.5	0.62	31.1	18.6	0.80	0.062	27.1	07.7	0.54	
10179	UF-12	1978	04	24.9	1.51	5	36	2.64	16.2	1.51	18.5	0.57	26.5	24.5	0.74	0.053	27.1	08.1	0.58	

TUR accession number	Seed										Fruit															
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit
10150	13.4	06.7	09.1	08.8	0	0	0	+	0	149	09.6	074	09.9	0.50	411	22.3	12.0	05.8	07.0	10.0	30B3	9	8	5		
10151	14.7	04.0	10.0	04.6	0	0	0	+	0	170	10.0	085	07.4	0.50	543	21.2	13.0	11.7	07.9	12.3	30C4	9	7	5		
10152	13.2	06.9	07.9	06.3	0	0	+	0	0	148	13.7	080	10.0	0.55	410	31.6	11.9	09.6	07.0	10.0	28B3	0	0	0		
10153	13.2	08.3	08.7	08.0	0	0	+	0	0	148	15.0	081	11.4	0.55	401	37.2	11.0	11.0	06.0	13.6	29D6	0	0	0		
10154	13.5	04.4	08.2	14.6	0	0	+	0	0	146	12.6	081	08.2	0.55	446	33.3	12.6	11.9	08.0	08.7	29B6	0	0	0		
10155	14.1	06.4	10.3	09.7	0	0	0	+	0	211	11.8	098	07.1	0.46	908	28.4	14.8	19.6	09.6	18.8	29D8	9	7	9		
10158	13.5	07.4	09.1	02.6	0	0	0	+	0	157	15.6	078	08.9	0.49	543	37.1	13.6	17.4	08.7	16.7	29E8	7	1	0		
10159	16.3	07.6	09.8	08.6	0	0	0	+	0	203	14.0	100	08.3	0.49	853	29.8	15.7	12.3	09.0	14.4	29C8	9	9	6		
10160	14.1	05.7	10.9	06.4	0	0	0	+	0	201	10.9	088	11.4	0.44	624	33.4	14.0	17.9	08.2	15.8	30C6	3	0	0		
10161	15.3	05.1	10.2	07.9	0	0	0	+	0	156	14.5	078	09.9	0.50	468	31.6	10.6	11.4	06.3	13.6	29C4	2	0	0		
10162	16.1	06.1	09.9	03.0	0	0	+	0	0	185	07.5	095	05.2	0.52	797	14.2	13.6	08.6	08.5	13.8	30C5	9	7	0		
10163	12.4	08.1	09.9	08.2	0	0	0	+	0	185	14.2	080	06.9	0.43	544	23.4	11.3	11.5	07.4	13.1	30B3	7	3	1		
10164	10.9	06.3	09.0	07.7	0	0	+	0	0	215	13.9	075	09.6	0.35	496	27.9	12.0	07.4	07.2	10.8	30E6	0	0	0		
10165	15.3	09.5	09.6	12.5	0	0	+	0	0	168	12.4	086	08.1	0.52	541	28.2	11.5	08.7	06.1	16.4	29B3	2	0	0		
10166	14.3	08.4	08.8	10.2	+	0	+	+	0	172	14.5	098	11.2	0.57	845	24.6	15.5	10.3	11.5	12.2	29B3	3	0	0		
10167	14.1	05.0			0	0	+	0	0	176	13.6	096	10.4	0.55	804	29.3					29D6	4	4	0		
10168	15.0	05.3	08.9	11.9	0	0	0	+	0	157	09.2	086	08.4	0.55	570	24.1	10.9	13.0	07.8	14.1	29C5	0	0	0		
10169	14.2	05.7	08.8	06.5	0	0	0	+	0	139	19.8	088	09.0	0.63	487	25.9	10.8	13.4	07.1	13.3	29E7	0	0	0		
10170	15.4	06.8	09.2	08.5	0	0	0	+	0	178	13.0	086	06.0	0.48	584	23.0	11.6	10.7	06.2	13.5	30B3	0	0	0		
10171	16.1	05.6	09.1	13.2	0	0	+	0	0	147	10.9	086	07.0	0.58	478	20.0	10.8	09.2	06.4	14.1	29B3	0	0	0		
10172	13.0	08.5	09.4	09.6	0	0	0	+	0	151	14.0	093	08.6	0.62	607	22.2	13.8	13.0	09.7	13.4	29D6	9	9	8		
10175	14.7	06.1	10.3	11.7	0	0	0	+	0	196	11.7	085	11.8	0.43	648	17.3	12.3	17.1	08.4	15.5	30D3	1	1	0		
10177	15.8	04.4	10.0	10.0	0	0	0	+	0	148	11.5	083	08.4	0.56	509	25.3	10.4	11.5	07.9	16.5	28C4	0	0	0		
10178	14.6	06.8	09.7	06.2	0	0	0	+	0	152	14.5	095	10.6	0.56	502	31.5	10.4	15.4	07.5	14.7	29E8	0	0	0		
10179	15.6	05.1	10.2	08.8	0	0	+	+	0	163	12.9	082	08.5	0.50	505	24.8	11.5	10.4	07.1	12.7	28B3	0	0	0		

TUP accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit								Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	Ridge pair separation	Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Mesocarp hardness	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV		
10150	5	0.67	3	3	5	1	3	2.20	0.21	1.43	0.11	1.03	0.06	7.92	0.31	8.23	0.40	2.04	0.09	7.80	0.48	2.73	0.22	
10151	0	0.62	7	3	6	0	3	2.24	0.08	1.30	0.07	1.02	0.04	7.78	0.56	10.37	0.58	2.35	0.26	7.69	0.57	2.50	0.38	
10152	0	0.60	4	3	3	1	3	2.13	0.15	1.43	0.11	1.03	0.06	7.68	0.47	8.67	0.60	2.15	0.17	8.69	0.63	2.47	0.29	
10153	0	0.80	6	3	3	3	3	2.70	0.27	1.16	0.09	0.99	0.05	7.69	0.56	8.87	0.32	2.16	0.18	7.54	0.51	2.25	0.28	
10154	0	0.70	4	3	3	1	3	2.45	0.19	1.27	0.12	1.02	0.05	7.27	0.31	9.05	0.30	2.06	0.15	7.57	0.36	2.17	0.26	
10155	7	0.79	3	3	5	0	3	3	0.15	1.29	0.14	0.98	0.05	8.45	0.52	10.04	0.48	2.34	0.19	8.50	0.42	3.11	0.20	
10158	0	0.71	3	3	3	3	3	1.63	0.15	1.24	0.10	0.96	0.05	7.23	0.35	8.10	0.61	2.02	0.10	6.67	0.56	2.23	0.23	
10159	0	0.60	6	3	7	5	3	2.19	0.09	1.48	0.08	0.97	0.07	7.73	0.36	8.85	0.60	2.49	0.23	8.44	0.69	2.73	0.23	
10160	0	0.70	6	7	7	5	7	1.77	0.22	1.42	0.11	1.02	0.05	7.12	0.29	8.95	0.56	2.41	0.18	8.50	0.69	2.85	0.19	
10161	0	0.65	3	3	7	3	3	2.3	0.21	1.4	0.09	0.98	0.05	7.4	0.22	8.8	0.42	2.1	0.22	7.4	0.44	2.5	0.21	
10162	0	0.82	6	3	5	0	3	2.42	0.18	1.29	0.12	0.97	0.05	7.34	0.64	8.71	0.49	2.23	0.09	7.90	0.55	2.44	0.41	
10163	0	0.69	6	7	8	7	3	1.98	0.29	1.20	0.13	0.97	0.06	7.09	0.36	7.29	0.34	2.22	0.23	6.40	0.51	2.17	0.17	
10164	0	0.63	7	7	9	5	3	2.25	0.16	1.15	0.15	0.91	0.12	7.40	0.39	9.10	0.54	2.43	0.26	7.39	0.50	2.27	0.24	
10165	0	0.63	4	7	5	5	3	2.07	0.54	1.32	0.15	0.91	0.07	7.65	0.32	11.13	0.49	2.47	0.40	8.83	0.44	2.39	0.22	
10166	0	0.61	1	3	3	0	3	1.86	0.12	1.02	0.05	0.93	0.06	6.51	0.56	8.03	0.70	1.99	0.21	7.70	0.40	3.04	0.12	
10167	0	0.66	2	3	4	0	3	2.56	0.10	1.16	0.13	1	0.04	7.03	0.41	9.65	0.59	2.57	0.19	8.39	0.74	3.49	0.67	
10168	0	0.60	3	1	5	2	4	1.98	0.29	1.37	0.10	1.02	0.04	7.34	0.40	9.02	0.84	2.32	0.24	7.72	0.86	2.09	0.13	
10169	0	0.64	3	3	1	0	3	1.78	0.18	1.36	0.10	0.98	0.04	7.28	0.29	8.61	0.49	2.03	0.12	7.98	0.56	2.07	0.18	
10170	0	0.72	7	5	7	5	3	1.95	0.05	1.46	0.07	1.01	0.05	8.72	0.23	7.32	0.89	2.07	0.17	9.28	0.28	3.26	0.22	
10171	0	0.71	5	5	3	5	3	1.88	0.13	1.27	0.15	0.96	0.09	7.5	0.23	9.2	0.61	2.1	0.12	7.0	0.60	1.9	0.09	
10172	0	0.65	3	3	1	3	3	2.12	0.18	1.40	0.11	0.99	0.06	7.05	0.35	8.76	0.53	2.41	0.29	8.03	0.44	2.64	0.22	
10175	0	0.47	3	5	7	7	3	2.28	0.16	1.30	0.08	1.03	0.05	8.21	0.26	9.56	0.47	2.32	0.21	7.83	0.45	2.31	0.16	
10177	0	0.70	2	3	3	2	3	1.97	0.13	1.26	0.14	0.98	0.08	7.0	0.34	8.12	0.48	2.2	0.20	7.4	0.51	2.5	0.33	
10178	0	0.51	2	3	3	1	3	1.69	0.20	1.44	0.07	1.00	0.04	7.62	0.53	8.26	0.50	2.01	0.06	7.22	0.62	1.93	0.10	
10179	0	0.59	6	5	7	3	5	1.97	0.11	1.28	0.14	0.99	0.06	7.6	0.64	8.8	0.53	2.2	0.19	7.5	0.61	2.0	0.10	

TUR accession number	Flower						Leaf		Compatibility and resistance					Notes			
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crinipellis perniciososa</i>	References	<i>Monilia rostrata</i>		References	<i>Ceratocystis fimbriata</i>	References
10150	0	3	11A4	7	30A3	10E8											
10151	3	0	10A4	7	29C4	8C7	+	P									
10152	3	7	9A3	0	30A4	8C7											
10153	3	7	8A2	0	29C4	8D5	0	13	R	36							
10154	0	0	10A2	0	30A3	8C7											
10155	3	0	10A4	7	30A4	9E8											
10158	3	3	10A3	0	30A4	9D7											
10159	0	0	10A3	3	29A4	9C7											
10160	7	3	10A5	0	30C5	9D8											
10161	3	3	12A3	0	30A4	9D8	+	P									
10162	3	0	10A2	0	30A4	8D6											
10163	3	0	10A3	0	30A4	7D5											
10164	7	0	11A5	0	30B5	7C6											
10165	7	7	10A4	3	30A4	7D6											
10166	3	0	12A2	0	29A4	8D8											
10167	3	7	10A3	0	10B4	6C6											
10168	3	3	10A4	0	30A3	7D7											
10169	3	7	10A3	0	29A4	7D8	+	43, P									
10170	0	0	11A3	0	29C4	7D6											
10171	0	3	30A4	0	9D7	5D5	+	P									
10172	3	0	11A4	3	30C5	8E8											
10175	3	3	10A4	0	30A4	6D5											
10177	3	3	11A3	0	30B5	9D7	+	43, P									
10178	7	0	11A3	0	30B4	8D7											
10179	3	0	10A3	0	30A4	10D8	+	43, P									

General

TUR accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10180	D	10-11	6	CC-143		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10181	C	20-21	8	CC-144		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10182	C	20-21	6	CC-152		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10184	C	20-21	6	CC-169		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10185	C	20-21	3	CC-173		COSTA RICA	LIMON	28 MILLAS	3	LA LOLA	1
10186	G	32	12	CC-210		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10188	E	20	5	CC-211		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10189	G	33	11	CC-211		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10190	G	34	6	CC-212		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10191	E	19	5	CC-212		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10192	E	18	7	CC-213		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10193	G	36	11	CC-213		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10195	G	35	10	CC-215		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10201	E	14	9	CC-224		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10202	E	13	9	CC-225		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10203	E	12	6	CC-226		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10204	J	27	6	CC-228		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10205	E	11	8	CC-231		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10206	E	10	8	CC-232		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10207	E	9	8	CC-234		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10208	E	8	8	CC-235		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10209	E	7	8	CC-236		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10211	J	25	5	CC-240		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10212	J	24	6	CC-241		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2
10214	E	6	9	CC-244		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	2

TUR accession number	Pedigree	General			Production							Seed											
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed width/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV					
																			mean	CV			
10180	UF-672	1978	04	26.8	1.24	4	40	1.95	12.7	1.24	12.9	0.64	30.1	27.9	0.75	0.059	23.8	03.8	0.63				
10181	UF-676	1978	03	18.1	1.68	5	45	2.76	06.3	1.68	05.6	0.61	32.8	24.1	0.73	0.065	27.3	03.1	0.53				
10182	UF-12	1978	04	21.9	1.34	5	43	2.25	15.1	1.34	18.9	0.59	34.1	19.9	0.79	0.053	25.3	07.1	0.57				
10184	UF-677	1978	04	21.9	1.28	5	47	2.14	15.3	1.28	19.3	0.60	35.7	17.9	0.76	0.071	25.1	02.4	0.59				
10185	UF-65	1978	06	23.1	1.35	4	40	2.39	17.8	1.35	14.4	0.56	32.1	19.0	0.80	0.049	26.7	04.5	0.55				
10186	SCA-12	1979	05	29.6	.94	6	49	1.53	14.4	.94	17.7	0.62	35.9	26.2	0.73	0.080	23.7	06.8	0.49				
10188	IMC-67	1980	05	35.4	.69	4	57	1.09	10.4	.69	07.7	0.64	48.8	26.0	0.72	0.074	21.1	09.5	0.45				
10189	IMC-67	1979	06	34.8	.77	5	60	1.19	17.4	.77	15.5	0.65	37.2	36.3	0.62	0.079	20.0	06.0	0.54				
10190	P-150	1979	05	31.0	.89	7	47	1.31	13.7	.89	12.8	0.68	36.4	20.9	0.77	0.105	21.6	05.6	0.54				
10191	P-150	1981	01	33.6	.85	2	46	1.21	06.0	.85	07.1	0.70	35.1	25.6	0.76	0.087	22.3	05.8	0.51				
10192	IMC-67	1980	07	39.6	.74	3	49	1.19	07.9	.74	13.5	0.62	34.1	24.0	0.70	0.093	21.0	04.8	0.52				
10193	IMC-67	1979	05	29.3	.99	4	47	1.68	16.3	.99	22.1	0.59	34.4	29.6	0	0.065	22.8	05.3	0.57				
10195		1979	05	36.4	.71	7	51	1.23	12.0	.71	09.0	0.58	38.9	23.9	0.76	0.087	20.5	06.3	0.55				
10201		1980	05	30.3	.95	3	48	1.59	17.6	.95	15.5	0.59	34.9	26.6	0.73	0.081	22.6	06.2	0.52				
10202		1980	05	43.1	.69	5	52	1.13	11.2	.69	11.5	0.62	33.5	31.0	0.64	0.079	22.3	06.3	0.40				
10203		1980	05	26.7	.97	5	48	1.5	10.2	.97	12.4	0.64	38.7	16.5	0.81	0.068	22.8	04.8	0.50				
10204	SCA-12 X ICS-6	1980	05	18.1	.76	5	57	1.25	16.0	.76	13.2	0.61	42.1	21.6	0.74	0.086	21.9	07.3	0.47				
10205	SCA-? X ICS-6	1980	07	28.4	.99	3	54	1.51	11.5	.99	12.2	0.65	35.8	29.0	0.66	0.069	22.6	06.2	0.50				
10206		1980	05	31.7	.99	6	47	1.53	13.1	.99	14.9	0.65	31.1	30.9	0.66	0.053	23.9	05.4	0.44				
10207	SCA-6 X ICS-39	1980	11	23.5	1.21	3	48	2.17	13.2	1.21	13.2	0.56	35.0	24.3	0.73	0.054	27.9	07.9	0.46				
10208	ICS-1 X SCA-6	1980	11	36.0	.73	5	45	1.11	09.6	.73	09.2	0.65	38.2	14.4	0.85	0.078	21.2	09.0	0.46				
10209		1980	06	20.5	.79	5	50	1.33	12.6	.79	10.2	0.59	38.4	26.6	0.77	0.070	20.8	07.7	0.54				
10211		1980	07	25.5	.87	3	63	1.27	12.1	.87	13.1	0.68	45.2	24.3	0.72	0.099	22.4	07.6	0.52				
10212		1980	07	25.6	1.11	2	50	1.7	10.2	1.11	12.0	0.65	35.3	32.0	0.71	0.060	23.6	05.9	0.55				
10214		1980	05	24.0	1.07	7	48	1.77	17.3	1.07	21.1	0.60	39.0	20.0	0.81	0.065	24.1	06.2	0.49				

TUR accession number	Seed										Fruit																	
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour			Anthocyanin intensity in	
	mean	CV	mean	CV	white	grayish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	fruit	fruit
10180	15.0	04.7	09.1	11.0	0	0	0	+	0	157	05.6	085	09.4	0.54	513	28.7	12.3	14.6	08.2	18.3	29C5	2	0	0				
10181	14.6	04.8	09.7	10.3	0	0	0	+	0	143	13.3	087	10.3	0.61	505	32.1	11.0	13.6	07.1	14.1	29B3	0	0	0				
10182	14.4	07.6	09.7	11.3	0	0	0	+	0	180	10.6	085	08.2	0.47	645	28.1	12.0	18.8	07.4	12.2	29D5	0	0	0				
10184	14.7	02.7	10.4	06.7	0	0	0	+	0	172	12.2	093	09.6	0.48	501	27.7	11.5	11.3	07.5	10.7	29E5	0	0	0				
10185	14.6	10.3	09.5	11.6	0	0	+	+	0	183	09.3	090	08.9	0.49	661	25.7	15.5	03.9	11.0	07.3	29B4	0	0	0				
10186	11.7	08.5	08.0	08.8	0	0	+	0	0	166	11.8	081	11.1	0.49	449	26.1	12.3	13.0	07.5	16.0	29E6	0	0	0				
10188	09.9	05.5	08.4	15.5	0	0	+	0	0	193	14.5	083	12.0	0.43	0.40	548	39.3	11.1	15.3	06.7	19.4	3aF8	0	0	0			
10189	10.8	05.6	08.1	09.9	0	0	0	+	0	107	06.5	075	12.0	0.40	0.50	473	34.5	10.4	15.4	06.1	16.4	29D8	0	0	0			
10190	11.6	05.2	08.0	11.3	0	0	+	0	0	150	10.0	075	08.0	0.50	347	24.8	09.1	13.2	05.1	15.7	30D6	0	0	0				
10191	11.4	06.1	07.4	06.8	0	0	+	0	+	156	12.2	078	07.7	0.50	402	28.9	10.2	13.7	05.8	13.8	29C4	0	0	0				
10192	11.0	05.5	07.5	06.7	0	0	+	+	0	157	12.1	076	06.6	0.48	0.50	366	26.5	10.0	19.0	05.7	15.8	30D8	0	0	0			
10193	13.1	05.3	09.2	12.1	0	0	+	0	0	184	10.9	078	18.2	0.40	0.50	528	35.4	10.8	17.6	07.1	16.9	29D8	0	0	0			
10195	11.2	06.3	08.0	11.3	0	0	+	0	0	177	10.2	078	06.4	0.44	447	24.4	11.3	13.3	06.5	12.3	29E8	0	0	0				
10201	11.7	05.1	07.9	10.1	0	0	+	+	0	166	11.4	080	08.8	0.48	0.48	430	23.5	12.3	13.0	07.5	10.7	29D7	1	0	0			
10202	09.0	08.9	07.1	07.0	0	0	+	0	0	190	11.1	077	06.5	0.41	0.52	424	23.8	11.0	09.3	07.7	24.7	29E8	0	0	0			
10203	11.4	06.1	08.4	07.1	0	0	+	0	0	198	11.1	080	06.3	0.40	0.51	566	25.5	13.9	15.1	07.5	14.7	29E8	1	0	0			
10204	10.2	03.9	07.1	08.5	0	0	+	0	0	175	11.4	083	09.6	0.47	0.53	487	29.4	12.8	18.0	07.1	15.5	29E7	0	0	0			
10205	11.3	05.3	08.2	09.8	0	0	+	+	0	180	13.3	085	10.6	0.47	0.51	519	28.1	12.2	18.0	07.2	20.8	28E8	0	0	0			
10206	10.6	02.8	07.7	07.8	0	0	+	+	0	169	10.0	087	06.9	0.51	0.51	583	25.7	13.1	09.2	09.1	13.2	20C0	0	0	0			
10207	12.9	05.4	08.6	08.1	0	0	+	0	0	202	10.9	090	05.6	0.45	0.50	654	24.5	10.5	15.5	06.8	16.7	20B5	0	0	0			
10208	09.7	05.8	07.4	10.8	0	0	0	+	0	199	08.5	077	07.8	0.39	0.47	491	21.0	11.7	09.4	07.8	11.5	29D8	9	9	7			
10209	11.3	07.1	08.3	08.4	0	0	+	+	0	197	14.7	081	07.4	0.41	0.56	548	26.8	12.6	12.7	08.2	17.1	29C4	3	0	1			
10211	11.7	06.8	07.1	07.0	0	0	+	0	0	161	11.4	080	06.3	0.50	0.52	455	21.1	10.2	17.6	06.5	15.4	29D7	0	0	0			
10212	12.9	07.8	09.4	11.7	0	0	+	0	0	189	11.6	086	07.0	0.46	0.50	585	23.8	13.0	14.6	07.3	19.2	30E8	0	0	0			
10214	11.7	06.8	08.5	10.6	0	0	+	0	0	208	08.9	084	08.0	0.40	0.47	599	21.0	12.4	10.5	07.5	10.7	29C4	0	0	0			

TUR accession number	Fruit							Flower															
	Anthocyanin intensity in furrows of ripe fruit							Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	Ridge pair separation	Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Mesocarp hardness	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	
10180	0	0.71	3	2	5	2	3	1.88	0.18	1.40	0.07	0.99	0.03	8.09	0.42	9.78	0.54	2.35	0.20	8.32	0.59	2.70	0.30
10181	0	0.66	3	3	3	3	3	1.99	0.09	1.53	0.07	1.13	0.11	6.95	0.20	7.84	0.40	2.23	0.22	6.92	0.39	2.01	0.16
10182	0	0.64	3	5	3	3	3	2.00	0.14	1.30	0.07	0.99	0.04	7.79	0.42	9.29	0.50	2.15	0.16	7.79	0.47	2.34	0.18
10184	0	0.68	3	7	3	5	3	2.02	0.12	1.44	0.09	0.96	0.05	7.40	0.26	8.13	0.57	2.23	0.18	7.42	0.61	2.33	0.19
10185	0	0.74	4	3	5	4	3	2.35	0.16	1.33	0.10	1.02	0.04	8.12	0.13	8.78	0.31	2.19	0.18	8.04	0.27	2.84	0.34
10186	0	0.54	2	3	6	1	3	2.54	0.13	1.21	0.13	0.99	0.04	7.08	0.30	8.49	0.38	2.16	0.21	6.75	0.67	2.74	0.25
10188	0	0.80	4	8	6	1	5	2.22	0.20	1.40	0.15	0.99	0.04	7.21	0.40	8.45	0.52	2.68	0.35	7.62	0.28	2.79	0.21
10189	0	0.70	5	5	3	1	5	2.25	0.15	1.31	0.17	1.01	0.06	7.32	0.42	8.18	0.66	2.58	0.22	7.05	0.36	2.37	0.29
10190	0	0.49	3	5	3	1	5	2.60	0.10	1.30	0.07	1.00	0.05	7.65	0.34	7.60	0.50	2.40	0.40	7.30	0.50	2.60	0.10
10191	0	0.76	3	6	4	2	5	2.20	0.21	1.33	0.11	1.08	0.05	8.33	0.39	8.66	0.23	2.27	0.20	8.10	0.39	2.48	0.38
10192	0	0.80	4	4	6	2	5	2.27	0.19	1.24	0.05	0.98	0.04	7.19	0.28	7.64	0.44	2.16	0.15	7.25	0.28	2.45	0.24
10193	0	0.62	2	5	5	5	5	2.18	0.15	1.52	0.11	0.96	0.06	7.33	0.38	8.56	0.50	2.32	0.24	6.58	0.31	2.08	0.17
10195	0	0.70	8	5	7	1	3	2.35	0.22	1.30	0.12	1.01	0.05	7.63	0.71	7.34	0.26	2.14	0.19	7.29	0.42	2.35	0.20
10201	0	0.76	5	2	5	0	1	2.44	0.23	1.44	0.10	0.98	0.04	8.12	0.47	8.84	0.32	2.60	0.28	8.15	0.39	2.89	0.16
10202	0	0.71	3	5	5	2	7	2.75	0.20	1.40	0.09	0.97	0.06	8.29	0.20	8.82	0.43	2.46	0.28	7.77	0.52	2.93	0.23
10203	0	0.84	5	3	5	1	5	2.37	0.16	1.49	0.10	1.01	0.03	8.64	0.56	9.87	0.60	2.61	0.20	7.38	0.39	2.93	0.12
10204	0	0.77	5	2	6	1	5	2.22	0.24	1.22	0.11	1.02	0.05	7.60	0.39	8.03	0.91	2.38	0.23	7.14	0.84	2.59	0.23
10205	0	0.85	6	6	5	1	7	2.45	0.14	1.56	0.08	1.02	0.04	7.49	0.38	8.42	0.32	2.26	0.26	8.13	0.36	2.65	0.26
10206	0	0.59	2	2	5	2	7	2.36	0.22	1.34	0.10	0.71	0.06	7.87	0.30	8.71	0.42	2.72	0.23	7.61	0.56	3.50	0.32
10207	0	0.75	5	7	6	3	5	2.51	0.11	1.16	0.07	0.96	0.05	7.91	0.56	8.46	0.43	2.49	0.21	8.97	0.60	3.09	0.15
10208	5	0.70	3	2	8	2	3	2.42	0.17	1.31	0.08	0.96	0.05	6.81	0.30	7.50	0.63	2.17	0.23	6.89	0.53	2.25	0.22
10209	0	0.79	3	4	6	1	5	2.34	0.32	1.35	0.09	0.99	0.04	7.64	0.57	8.73	0.56	2.55	0.21	7.22	0.35	2.87	0.16
10211	0	0.74	3	4	3	1	5	2.03	0.23	1.22	0.10	1.0	0.05	6.77	0.25	7.74	0.54	2.45	0.26	6.70	0.55	2.45	0.22
10212	0	0.80	5	7	5	1	7	2.35	0.16	1.48	0.12	1.13	0.05	7.27	0.69	7.24	0.46	2.52	0.27	5.87	0.43	2.28	0.28
10214	0	0.63	4	2	8	1	7	2.19	0.21	1.35	0.11	0.91	0.05	6.92	0.38	8.43	0.61	2.54	0.31	6.59	0.36	3.11	0.29

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10215	E	5	9	CC-245			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10217	E	3	9	CC-249			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	1
10219	E	1	7	CC-251			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10221	J	21	9	CC-253			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10222	J	20	7	CC-254			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10234	J	18	8	CC-256			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10225	J	17	5	CC-257			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10226	EX	13	4	CC-258	H.21 A.2 NAC-2		ECUADOR	LOS RIOS	QUEVEDO	1	FILHILLIQUE	2
10227	EX	13	4	CC-259	H.22 A.3 NAC-3		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	2
10228	EX	13	4	CC-260	H.21 A.1 NAC-3		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	2
10229	EX	13	4	CC-261	H.22 A.6 NAC-3		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	2
10230	EX	13	4	CC-262	H.21 A.3 NAC-3		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	2
10231	EX	13	4	CC-263	H.21 A.1 NAC-2		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	2
10232	EX	13	4	CC-264			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10234	B	12	8	CHUAD-120	CHU		VENEZUELA	ARAGUA	ORINARE	3	ESTAC. EXP. OCUNARE	
10236	H	61	6	CNS-23	END.2.3		VENEZUELA	BARRINAS		2	FINCA CARO M.D.P.	
10237	A	10	11	COMUN TIPIRO			BRASIL	BAHIA	ITABUNA	3	CEPEC	
10243	G	37	10	C.SUL-3			BRASIL	AMAZONAS	RIO JURUA	2	GUAJARA	
10245	G	38	11	C.SUL-7			BRASIL	AMAZONAS	RIO JURUA	2	GUAJARA	
10251	G	21	18	DIAMANTES-688			COSTA RICA	LIMON	GUPILES	3	LOS DIAMANTES	0
10254	G	15	14	EEG-25			BRASIL	ESPIRITU SANTO	BAIXO RIO DOCE	3	GOITACAZES	
10255	H	32	14	LEG-27			BRASIL	ESPIRITU SANTO	BAIXO RIO DOCE	3	GOITACAZES	
10256	H	33	9	EEG-29			BRASIL	ESPIRITU SANTO	BAIXO RIO DOCE	3	GOITACAZES	
10257	H	34	9	EIG-40			BRASIL	ESPIRITU SANTO	BAIXO RIO DOCE	1	GOITACAZES	
10258	H	35	11	EEG-64			BRASIL	ESPIRITU SANTO	BAIXO RIO DOCE	3	GOITACAZES	

TUR accession number	Pedigree	General			Production						Seed												
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed width/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV					
																			mean	CV	mean	CV	
10215		1980	07	21.8	1.15	6	49	1.9	07.4	1.15	10.4	0.65	39.8	10.8	0.81	0.064	25.7	05.8	0.49				
10217	PA-12	1980	07	31.2	1.01	3	42	1.65	16.6	1.01	10.6	0.61	31.8	22.5	0.76	0.079	22.6	06.6	0.52				
10219		1980	05	27.9	1.13	6	40	1.97	12.3	1.13	17.1	0.58	31.6	26.4	0.79	0.060	25.0	06.8	0.52				
10221		1980	05	34.2	0.85	5	33	1.30	12.6	0.85	11.8	0.61	44.5	24.9	0.75	0.088	22.5	06.2	0.50				
10222		1981	02	32.7	0.79	2	07	1.26	13.0	0.79	13.4	0.63	38.5	21.3	0.82	0.074	22.6	04.9	0.50				
10224		1980	05	34.1	0.81	7	50	1.29	12.4	0.81	08.3	0.62	36.4	20.0	0.73	0.070	23.4	05.1	0.46				
10225		1980	05	29.1	1.17	2	41	2.07	09.0	1.17	10.9	0.50	35.5	19.3	0.76	0.055	23.0	05.0	0.53				
10226	MAC-2	1979	12	29.3	1.17	6	48	1.71	11.6	1.17	14.0	0.60	34.5	28.1	0.72	0.059	24.2	05.0	0.52				
10227	MAC-4	1979	12	28.0	1.35	3	08	2.13	12.7	1.35	14.3	0.60	37.0	20.6	0.77	0.074	25.7	04.7	0.58				
10228	MAC-3	1979	12	28.0	1.34	6	40	2.00	16.7	1.34	16.3	0.64	32.4	18.4	0.66	0.073	26.0	04.8	0.57				
10229	MAC-3	1980	01	22.8	1.27	5	04	2.06	16.9	1.27	12.4	0.60	37.0	21.0	0.72	0.074	24.5	06.3	0.56				
10230	MAC-3	1979	12	29.3	1.19	7	09	1.67	05.7	1.19	10.9	0.60	39.7	33.2	0.71	0.068	24.9	04.7	0.57				
10231	MAC-2	1979	12	29.5	1.17	5	56	1.23	10.7	1.17	12.0	0.60	35.5	29.0	0.65	0.065	23.7	05.7	0.51				
10232	FL-14	1979	12	25.6	1.00	6	51	1.90	10.5	1.00	12.3	0.67	37.1	22.1	0.73	0.071	22.4	05.0	0.61				
10234	CHDAD CRUELLO	1979	05	16.0	1.11	3	25	1.78	21.4	1.11	19.0	0.29	7.0	19.1	0.83	0.037	21.8	07.4	0.50				
10236		1980	03	16.0	1.40	4	07	3.65	12.8	1.40	11.0	0.66	37.1	15.6	0.79	0.049	27.1	10.6	0.57				
10237		1980	00	13.0	0.81	2	50	1.35	11.0	0.81	15.0	0.62	40.5	10.0	0.60	0.105	21.5	7.0	0.52				
10243		1979	05	04.1	0.50	0	00	0.00	10.0	0.50	00.0	0.50	00.0	0.00	0.50	0.110	20.7	04.6	0.36				
10245		1979	07	02.0	0.50	3	07	1.00	10.0	0.50	13.0	0.64	10.0	0.00	0.70	0.088	19.6	07.5	0.51				
10251	100-4 x SCA-6	1979	04	12.8	1.03	1	04	1.33	09.9	1.03	11.2	0.60	40.5	21.9	0.79	0.060	23.8	04.0	0.53				
10254		1979	02	00.0	0.00	0	00	0.00	00.0	0.00	00.0	0.00	00.0	0.00	0.00	0.100	21.1	05.7	0.56				
10255		1979	05	04.1	0.50	0	00	0.00	00.0	0.50	00.0	0.50	00.0	0.00	0.74	0.003	23.2	04.4	0.50				
10256		1979	10	32.5	0.80	6	50	1.10	13.0	0.80	13.0	0.66	30.0	20.4	0.77	0.085	21.7	05.0	0.50				
10257		1979	10	20.9	0.90	1	50	1.50	06.0	0.90	08.0	0.64	30.7	20.1	0.77	0.079	23.7	07.5	0.52				
10258		1979	05	26.4	1.07	0	00	0.00	00.0	1.07	00.0	0.60	25.0	26.0	0.77	0.042	24.3	06.7	0.52				

TUR accession number	Seed										Fruit															
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit
10215	12.5	03.2	08.4	08.3	0	0	+	0	+	210	09.6	082	07.9	0.39	0.47	625	23.4	12.9	15.6	06.8	23.5	29C4	0	0	0	
10217	11.8	05.9	08.8	09.0	0	0	+	+	0	169	08.6	079	05.9	0.47	0.49	404	18.1	10.8	10.2	05.9	16.9	29C4	0	0	0	
10219	12.9	05.4	08.6	07.0	0	0	-	+	-	192	08.0	087	07.9	0.44	0.50	579	20.2	05.0	09.1	07.8	15.0	29D8	0	0	0	
10221	11.2	07.1	07.1	08.5	0	0	+	+	0	167	10.3	075	06.0	0.45	0.50	392	25.1	08.2	12.6	06.5	15.4	30D8	9	2	2	
10222	11.2	06.3	07.7	07.8	0	0	+	+	0	196	10.2	078	05.6	0.40	0.49	517	30.8	12.7	15.0	06.5	15.8	30D8	8	7	5	
10224	10.8	04.6	07.5	08.0	0	0	+	0	0	180	14.7	087	04.5	0.48	0.48	522	20.6	13.0	09.2	08.5	10.6	28D8	0	0	0	
10225	12.7	04.7	09.3	06.3	0	0	+	0	0	192	10.6	092	05.2	0.40	0.55	579	25.6	12.8	16.0	06.9	10.1	29C7	0	0	0	
10226	12.6	04.5	08.3	08.2	0	0	-	0	0	166	12.4	087	10.0	0.52	0.50	600	37.1	13.4	15.2	07.5	20.0	29C8	0	0	0	
10227	14.9	06.0	08.5	14.1	0	0	+	0	0	149	15.5	083	10.3	0.56	0.50	502	40.5	11.1	19.8	06.4	25.0	29B3	2	0	0	
10228	14.7	07.1	08.1	09.8	0	0	+	0	0	151	12.1	089	10.2	0.59	0.52	511	29.4	11.9	12.7	06.4	20.0	29E8	1	0	0	
10229	15.6	03.1	08.4	13.1	0	0	+	0	0	147	14.0	085	10.9	0.50	0.44	661	26.2	11.1	17.1	05.8	21.2	29D9	0	0	0	
10230	14.3	03.9	08.6	12.2	0	0	+	0	0	150	16.1	080	12.5	0.50	0.48	510	44.3	11.9	21.0	05.8	21.7	29B3	2	0	0	
10231	12.1	07.1	08.7	11.2	0	0	+	0	0	164	11.4	090	10.8	0.55	0.50	603	28.7	13.4	14.4	07.4	20.7	29B3	0	0	0	
10232	13.6	04.6	08.9	16.3	0	0	+	0	0	167	12.7	084	09.7	0.50	0.50	526	33.0	12.2	17.8	07.0	22.8	29D8	9	9	5	
10234	12.4	05.6	09.5	09.5	0	0	+	0	0	180	10.8	092	12.0	0.58	0.47	692	41.8	17.7	15.5	13.8	18.9	29B4	9	7	6	
10236	15.4	07.8	09.9	11.1	0	0	+	0	0	196	13.6	091	09.1	0.46	0.49	550	41.6	13.0	16.1	08.6	22.0	29B4	0	0	0	
10237	11.1	5.4	7.2	8.3	0	0	+	0	0	151	10.4	78	8.	0.52	0.54	408	25.0	10.1	12.9	7.2	22.2	29B4	0	0	0	
10243	07.4	14.2	07.0	08.2	0	0	+	0	0	154	09.4	075	05.2	0.49	0.51	367	20.4	10.9	08.8	06.6	14.5	30F8	0	0	0	
10245	10.0	05.0	08.0	11.3	0	0	-	0	0	191	09.6	076	09.2	0.50	0.49	600	34.6	12.0	15.2	05.4	22.5	30F0	0	0	0	
10251	12.0	04.3	09.4	06.4	0	0	+	0	0	190	09.7	079	08.2	0.41		505	23.9	16.3	09.3	09.4	18.6	30E7	9	0	7	
10254	11.8	04.2	08.1	02.5	0	0	+	0	0	118	07.6	069	08.4	0.59		254	22.4	10.0	17.0	05.8	17.2	30C4	0	0	0	
10255	11.7	06.3	07.5	08.6	0	0	0	+	0	139	09.4	078	08.6	0.56		423	30.0	09.7	17.3	06.6	15.9	29C4	0	0	0	
10256	10.8	04.8	07.3	07.1	0	0	0	+	0	140	10.3	080	09.0	0.48		463	25.4	10.2	10.8	06.5	10.9	00B	0	0	0	
10257	12.4	03.6	07.9	09.4	0	0	0	+	0	150	09.6	091	07.6	0.51	0.50	467	25.3	10.3	14.1	06.7	12.7	29D2	0	0	0	
10258	12.7	05.9	07.6	13.4	0	0	0	+	0	113	10.1	086	10.1	0.76		383	26.7	08.5	13.0	06.1	17.3	29B3	0	0	0	

TUR accession number	Fruit									Flower																
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Basal constriction	Mesocarp hardness	Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligula length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10215	0	0.59	5	4	7	2	5			2.43	0.11	1.29	0.09	0.98	0.05	8.02	0.70	9.32	0.76	2.67	0.20	7.43	0.59	2.53	0.31	
10217	0	0.67	3	3	5	3	3			2.13	0.10	1.31	0.08	0.96	0.05	7.15	0.20	7.25	0.23	1.98	0.20	7.73	0.37	2.17	0.21	
10219	0	0.85	6	6	8	2	7			2.57	0.26	1.04	0.09	1.05	0.05	8.51	0.04	9.01	0.53	2.45	0.32	7.73	0.52	2.43	0.25	
10221	1	0.66	2	2	5	2	8			2.23	0.15	1.25	0.24	1.13	0.09	8.75	0.53	5.84	0.16	2.73	0.23	7.50	0.40	2.71	0.30	
10222	1	0.81	5	5	5	5	5			2.12	0.09	1.30	0.16	1.04	0.07	7.81	0.38	9.42	0.41	2.42	0.27	8.25	0.50	2.71	0.28	
10224	0	0.77	2	2	4	2	7			2.46	0.11	1.33	0.11	1.07	0.06	7.49	0.40	8.10	0.66	2.58	0.19	7.51	0.45	2.47	0.26	
10225	0	0.69	4	4	5	5	5			2.91	0.07	1.24	0.26	1.03	0.02	7.20	0.59	8.81	0.57	2.27	0.16	7.40	0.50	2.67	0.28	
10226	0	0.59	7	5	3	1	7			2.5	0.1	1.5	0.1	1.1	0.1	8.5	0.2	10.2	0.70	2.64	0.20	7.90	0.6	3.0	0.2	
10227	0	0.61	6	3	3	1	5			2.1	0.2	1.4	0.1	1.0	0.1	5.9	0.5	9.2	0.7	2.5	0.2	7.8	0.5	2.8	0.2	
10228	0	0.69	7	5	3	1	7			2.2	0.1	1.3	0.1	1.0	0.1	7.6	0.2	8.6	0.4	2.3	0.2	9.3	0.9	3.0	0.2	
10229	0	0.56	9	3	1	0	5			2.15	0.14	1.37	0.12	1.03	0.05	6.01	0.33	8.78	0.45	2.40	0.26	7.49	0.53	2.64	0.29	
10230	0	0.74	7	3	5	1	5			2.1	0.3	1.9	0.1	1.0	0.1	6.9	0.6	9.9	0.3	2.8	0.2	8.7	0.6	3.1	0.3	
10231	0	0.60	7	3	3	0	7			2.7	0.1	1.4	0.1	1.1	0.1	7.3	0.2	9.4	0.8	2.2	0.2	8.2	0.3	2.6	0.4	
10232	5	0.59	7	3	3	0	5			2.2	0.1	1.3	0.1	1.0	0.1	7.2	0.3	9.2	0.2	2.7	0.2	7.9	0.5	2.9	0.2	
10234	3	0.69	2	2	5	0	3			2.2	0.1	1.2	0.1	1.0	0.03	8.3	0.3	9.7	0.4	2.1	0.2	8.7	0.6	2.2	0.2	
10236	0	0.71	3	3	6	0	5			1.9	0.2	1.2	0.1	0.9	0.1	7.1	0.4	8.5	1.0	2.1	0.2	6.3	1.0	2.4	0.4	
10237	0	0.89	2	1	4	3	7			2.31	0.16	1.46	0.09	1.03	0.08	7.96	0.40	8.70	0.46	2.40	0.25	7.75	0.65	2.29	0.23	
10243	0	0.65	5	5	4	1	3			2.06	0.22	1.31	0.13	1.02	0.04	7.06	0.57	8.71	0.39	2.23	0.21	5.83	0.47	1.90	0.22	
10245	0	0.49	9	0	7	9	5			2.84	0.23	1.54	0.15	0.98	0.05	6.35	0.52	6.70	0.47	2.73	0.25	6.52	0.62	2.31	0.24	
10251	0	0.62	6	5	2	1	3			2.30	0.10	1.54	0.12	1.01	0.06	8.21	0.67	7.95	0.65	2.12	0.16	8.30	0.38	2.05	0.42	
10254	0	0.68	3	3	0	0	3			2.14	0.13	1.25	0.09	1.01	0.02	7.59	0.37	7.92	0.49	2.07	0.19	7.28	0.48	2.03	0.10	
10255	0	0.59	2	3	2	1	7			1.92	0.17	1.30	0.11	1.02	0.05	7.0	0.39	8.36	0.38	2.10	0.21	6.97	0.50	1.97	0.17	
10256	0	0.62	3	3	0	1	0			2.54	0.14	1.39	0.09	1.04	0.05	7.20	0.20	7.95	0.42	2.38	0.31	7.25	0.32	2.28	0.27	
10257	0	0.73	2	2	1	1	7			2.5	0.05	1.3	0.09	1.0	0.04	7.2	0.5	7.9	0.7	2.4	0.3	7.7	0.6	2.6	0.3	
10258	0	0.74	2	2	1	0	7			2.24	0.13	1.30	0.09	1.04	0.08	6.91	0.30	8.14	0.49	2.38	0.29	7.05	0.61	2.31	0.21	

TUR accession number	Flower						Leaf		Compatibility and resistance					Notes		
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crimpellis perniciosus</i>	References	<i>Monilia roreni</i>		References	<i>Ceratocystis fimbriata</i>
10215	0	0	10A2	0	29A4	7C7										
10217	3	0	10A4	0	30C3	6C6										
10219	0	0	9A2	0	29A4	8D7										
10221	3	0	11A6	3	29E4	10E8										
10222	0	0	11A4	3	30A4	9D7										
10224	0	0	1A2	0	28D5	7C7										
10225	3	3	10A3	0	30B4	7C7										
10226	2	3	9A4	0	30D5	6E7										
10227	3	7	10A3	0	30B4	6D7										
10228	0	7	9A4	0	30D5	7D7										
10229	3	7	9A4	0	30C5	6D7										
10230	2	7	8A3	0	30C5	6E7										
10231	3	3	9A3	0	30D5	6D7										
10232	3	0	9D5	7	29D4	9D7										
10234	0	0	8A3	0	30B6	5D7										
10236	3	0	10A4	0	30C4	1D6										
10237	3	0	8A2	0	30C5	8C7										
10243	7	0	10B4	0	30C3	2C6										
10245	7	0	9A2	0	30C5	4A5										
10251	0	0	11A4	3	29B4	8D8	0	P								
10254	3	0	11A4	3	29B4	7D7	+	P								
10255	7	3	7A2	0	30B4	7D7										
10256	3	3	9A2	3	30C4	5D7										
10257	3	3	10A3	0	30D4	7C6	+	43								
10258	3	3	10A3	0	30B4	5C4	+	43								

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10259	H	31	10	EET-65			BRASIL	ESPÍRITU SANTO	BAIXO RIO DOCE	3	GOITACAZES	
10260	G	2	11	EET-12	C2	TR. 886	ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10262	D	66	9	EET-41	SANTA ROSA 15		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10264	D	56	13	EET-40	SANTA ROSA 34		ECUADOR	LOS RIOS	QUEVEDO	3	HDA. STA. ROSA	1
10265	D	67	6	EET-53	SANTA ROSA 42		ECUADOR	LOS RIOS	SANTA ROSA	3	PICHILINGUE	
10266	G	11	15	EET-59	SAN JAVIER 6		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10267	D	57	10	EET-62	PORVENIR 7		ECUADOR	LOS RIOS	QUEVEDO	2	HDA. EL PORVENIR	1
10268	D	58	13	EET-64	SAN JAVIER 13		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10269	G	5	11	EET-67	SAN ANTONIO 1		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10270	G	6	14	EET-75	PORTOPIA 1		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10271	G	7	11	EET-80	SANTA ROSA 19		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10272	D	68	9	EET-94	TENGUEL 1		ECUADOR	GUAYAS	TENGUEL		PICHILINGUE	
10273	G	1	15	EET-95	TENGUEL 33		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	1
10275	D	69	6	EET-156	SAN GERARDO 2		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	1
10276	G	8	14	EET-162	CURIGUINGUE 2		ECUADOR	LOS RIOS	CURIGUINGUE	3	PICHILINGUE	1
10277	G	3	15	EET-164	SAN CARLOS 1		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10278	G	12	12	EET-193	NARAJAL 1		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10279	D	70	9	EET-228	TENGUEL 54		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10280	D	60	9	EET-250	COLOMBIA		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10281	G	9	11	EET-333	SILECIA APCH. 5		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10282	D	61	11	EET-338	LAS FUENTES-1		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10283	D	72	3	EET-353	TR. 1702		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10285	D	71	4	EET-376	SEL. HIBR. 1831		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	2
10286	D	62	9	EET-377	SEL. HIBR. 1832		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10288	D	64	8	EET-397	SEL. PATOLOGIA		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	

TUR accession number	Pedigree	General				Production						Seed											
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed weight/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV			
10259		1979	06	24.5	1.24	7	46	1.85	00.2	1.24	11.9	0.67	32.9	27.0	0.72	0.058	25.3	05.1	0.55				
10260		1979	05	34.4	1.1	4	50	1.85	13.9	1.1	18.8	0.60	26.4	46.3	0.53	0.054	25.3	05.4	0.55				
10262		1980	07	33.0	1.11	2	46	1.86	15.3	1.11	15.1	0.59	35.5	24.2	0.73	0.079	23.9	05.4	0.56				
10264		1980	07	49.5	1.47	5	46	2.27	00.2	1.47	06.0	0.65	29.6	33.4	0.64	0.045	26.3	06.0	0.55				
10265		1980	04	21.1	1.41	6	47	2.02	15.0	1.41	14.2	0.70	33.5	43.4	0.71	0.048	25.4	07.5	0.50				
10266		1978	06	26.9	1.41	7	47	2.14	23.4	1.41	21.7	0.66	26.3	47.5	0.56	0.050	25.7	09.1	0.53				
10267		1980	05	22.9	1.33	3	51	2.06	23.4	1.33	22.1	0.64	32.9	26.7	0.55	0.054	24.7	00.9	0.49				
10268		1980	04	15.8	1.65	5	50	2.44	16.1	1.65	16.2	0.67	38.4	21.1	0.77	0.049	25.6	05.9	0.56				
10269		1978	06	30.3	.99	5	48	1.47	17.3	.99	19.5	0.68	33.2	29.5	0.69	0.064	23.6	06.4	0.53				
10270		1978	06	34.7	.78	7	47	1.18	12.0	.78	13.4	0.66	37.0	15.9	0.79	0.065	20.3	05.1	0.54				
10271		1978	06	33.2	.97	7	46	1.54	14.7	.97	13.0	0.63	30.9	26.5	0.67	0.055	22.7	06.2	0.52				
10272		1980	03	19.2	1.47	0	47	2.1	16.2	1.47	15.9	0.70	35.6	23.9	0.76	0.050	25.0	07.4	0.50				
10273	NACIONAL	1979	05	21.3	1.29	7	50	1.93	05.5	1.29	06.4	0.67	36.3	30.2	0.73	0.053	25.1	04.8	0.49				
10275		1979	11	19.8	1.20	3	49	2.07	00.4	1.20	14.0	0.62	39.5	23.0	0.81	0.044	24.0	03.7	0.60				
10276	NACIONAL x V.A.	1979	07	23.4	1.27	4	50	1.72	03.9	1.27	12.0	0.74	31.6	33.3	0.67	0.063	24.0	06.7	0.55				
10277		1978	06	24.1	1.31	7	43	1.93	11.4	1.31	11.2	0.60	31.7	22.6	0.70	0.071	24.1	07.5	0.57				
10278		1978	06	27.0	1.08	7	45	1.69	07.0	1.08	07.6	0.64	34.3	24.8	0.76	0.070	23.9	04.8	0.50				
10279		1979	11	16.7	1.63	4	49	2.49	11.5	1.63	09.0	0.66	36.6	26.0	0.75	0.045	25.5	04.3	0.52				
10280		1980	11	24.3	1.11	2	49	1.79	10.9	1.11	20.9	0.62	37.0	25.0	0.76	0.071	23.3	08.1	0.54				
10281		1978	06	24.4	1.17	5	44	1.87	08.5	1.17	10.1	0.63	34.9	16.6	0.79	0.074	23.7	06.0	0.50				
10282		1978	07	32.4	.94	8	51	1.45	06.3	.94	10.3	0.65	32.0	32.7	0.64	0.078	20.6	05.1	0.59				
10283		1980	11	23.3	1.25	1	49	1.91	09.4	1.25	11.8	0.65	34.5	23.8	0.70	0.059	25.0	04.8	0.55				
10285	EET-156 X SCA-6	1979	11	21.4	1.12	4	57	1.71	00.2	1.12	08.3	0.65	41.8	27.0	0.73	0.057	22.3	04.0	0.52				
10286	EET-156 X SCA-6	1980	06	26.1	1.06	2	56	1.58	09.7	1.06	11.3	0.67	40.6	30.3	0.72	0.070	23.5	08.0	0.52				
10288	SCA	1980	04	23.6	1.1	5	51	1.81	08.9	1.1	10.3	0.61	38.5	26.5	0.75	0.061	23.3	05.2	0.56				

TUR accession number	Seed										Fruit																		
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour			Anthocyanin intensity in		
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	Basic fruit surface colour	ridges	furrows	ridges of ripe fruit	Anthocyanin intensity in	ridges of ripe fruit
10259	13.8	03.8	08.5	05.4	0	0	0	+	0	150	11.3	098	05.7	0.65		567	27.6	11.2	15.4	08.2	15.4	29C4	0	0	0				
10260	14.0	02.4	10.1	08.3	0	0	+	0	0	187	13.2	080	10.3	0.43		491	33.1	12.5	14.3	06.9	10.3	30B4	0	0	0				
10262	13.4	06.7	09.0	11.3	0	0	+	0	0	148	10.4	085	06.0	0.57	0.54	425	20.5	10.0	12.0	06.5	13.6	29B3	0	0	0				
10264	14.4	06.9	10.0	11.5	0	0	+	+	0	189	11.7	091	08.4	0.90	0.54	655	24.9	14.7	10.9	08.9	14.6	30E6	0	0	0				
10265	12.7	05.5	09.0	14.4	0	0	+	+	0	195	13.7	095	10.0	0.49	0.49	692	30.4	15.1	15.2	09.7	17.5	30E8	0	0	0				
10266	13.5	07.9	11.0	08.2	0	0	+	0	0	171	06.1	085	09.5	0.50		522	24.2	15.3	05.2	09.1	03.3	30E7	0	0	0				
10267	12.2	07.4	09.0	14.4	0	0	+	0	0	175	13.2	095	10.0	0.54	0.54	600	35.0	14.2	14.0	08.5	16.5	29D6	0	0	0				
10268	14.3	07.0	10.3	10.7	0	0	+	+	0	213	10.6	094	07.3	0.44	0.46	786	14.6	14.9	10.7	09.0	17.8	29E8	0	0	0				
10269	12.4	05.6	09.1	12.0	0	0	0	+	0	167	13.4	079	12.9	0.47		516	38.1	13.3	21.5	08.7	22.7	29D5	0	0	0				
10270	10.9	10.4	07.7	15.6	0	0	0	+	0	154	08.4	091	06.3	0.59		568	20.5	17.2	04.9	08.6	06.4	30E7	9	5	5				
10271	11.9	06.7	08.8	09.3	0	0	0	+	0	160	11.3	091	11.8	0.54		565	29.3	14.3	13.3	08.8	14.8	30E7	1	0	0				
10272	12.9	06.2	09.5	14.7	0	0	+	+	0	208	14.4	097	10.3	0.47	0.43	716	31.7	15.0	16.7	09.0	18.4	30E7	1	0	0				
10273	12.3	03.8	09.0	07.8	0	0	0	+	0	189	12.3	092	07.1	0.49		690	29.6	13.9	13.2	08.4	18.7	29D6	0	0	0				
10275	14.4	05.5	09.3	08.6	0	0	+	+	0	189	13.9	107	09.3	0.57	0.50	889	29.0	15.3	12.4	07.3	21.9	30D5	9	8	7				
10276	13.2	09.8	08.5	11.0	0	0	0	+	0	171	17.3	087	13.0	0.51		532	29.5	13.8	11.6	07.5	16.0	29C4	0	0	0				
10277	13.7	05.8	10.1	05.9	0	0	+	0	0	163	10.4	084	09.5	0.51		449	27.0	18.6	05.9	12.1	04.9	29E8	0	0	0				
10278	12.0	06.0	09.0	08.9	0	0	0	+	0	179	11.6	080	10.8	0.45		493	28.2	14.6	14.4	09.9	14.1	29D5	0	0	0				
10279	13.2	04.5	10.4	07.7	0	0	+	+	0	231	13.0	098	07.1	0.42		814	24.3	15.9	11.3	08.9	12.4	29E8	1	0	0				
10280	12.7	07.0	08.3	10.0	0	0	+	+	0	168	10.5	085	10.6	0.51	0.49	520	28.6	11.8	11.0	06.5	20.0	20B6	0	0	0				
10281	12.9	07.2	08.4	11.6	0	0	+	0	0	166	11.2	078	10.4	0.47	0.55	471	28.5	11.4	13.9	06.9	18.7	29B3	0	0	0				
10282	12.2	05.8	07.7	01.8	0	0	+	0	0	182	10.1	074	06.4	0.41		423	35.9	11.8	09.0	08.3	04.2	28D8	9	8	5				
10283	13.7	04.4	08.7	06.9	0	0	0	+	0	172	11.0	088	09.6	0.51	0.53	585	29.6	12.3	14.6	07.5	20.0	29C4	2	0	0				
10285	11.7	04.3	08.7	11.5	0	0	0	+	0	220	10.0	097	07.2	0.44	0.52	734	22.6	14.6	15.7	06.5	15.4	28F7	0	0	0				
10286	11.8	09.3	07.5	12.0	0	0	+	0	0	174	15.5	086	08.0	0.49	0.54	520	31.3	12.1	14.9	07.0	18.6	30E6	0	0	0				
10288	13.1	05.3	08.5	10.6	0	0	0	+	0	189	15.5	085	11.9	0.45	0.50	635	33.4	15.5	13.5	08.5	16.5	29D6	5	0	0				

TUR accession number	Pedigree	General			Production						Seed												
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed weight/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV			
10259		1979	06	24.5	1.24	7	46	1.85	08.2	1.24	11.9	0.67	32.9	27.0	0.72	0.058	25.3	05.1	0.55				
10260		1979	05	34.4	1.1	4	50	1.85	13.9	1.1	18.8	0.60	26.4	46.3	0.53	0.054	25.3	05.4	0.55				
10262		1980	07	33.0	1.11	2	46	1.06	15.3	1.11	15.1	0.59	33.5	14.2	0.73	0.079	23.9	05.4	0.56				
10264		1980	07	49.5	1.47	5	46	2.27	08.2	1.47	06.8	0.65	29.6	33.4	0.64	0.045	26.3	06.0	0.56				
10265		1980	04	21.1	1.41	6	47	2.02	15.8	1.41	14.2	0.70	33.5	43.4	0.71	0.048	25.4	07.5	0.50				
10266		1978	06	26.9	1.41	7	47	2.14	23.4	1.41	21.7	0.66	26.3	47.5	0.56	0.050	25.7	09.1	0.53				
10267		1980	05	22.9	1.33	3	51	2.06	23.0	1.33	22.1	0.64	32.9	26.7	0.65	0.054	24.7	03.9	0.49				
10268		1980	04	15.8	1.65	3	50	2.44	16.1	1.65	16.2	0.67	30.4	21.1	0.77	0.049	25.6	05.9	0.56				
10269		1978	06	30.3	.99	5	48	1.47	17.3	.99	19.5	0.68	33.2	29.5	0.69	0.064	23.6	06.4	0.53				
10270		1978	06	34.7	.78	7	47	1.18	12.0	.78	13.4	0.66	37.0	15.9	0.79	0.065	20.3	05.1	0.54				
10271		1978	06	33.2	.97	7	46	1.54	14.7	.97	13.0	0.63	30.9	26.5	0.67	0.055	22.7	06.2	0.52				
10272		1980	03	19.2	1.47	4	47	2.1	16.2	1.47	15.9	0.70	35.6	23.9	0.76	0.050	25.8	07.4	0.50				
10273	NACIONAL	1979	05	21.3	1.29	7	50	1.93	05.5	1.29	06.4	0.67	36.3	30.2	0.73	0.053	25.1	04.8	0.49				
10275		1979	11	19.8	1.28	3	49	2.07	08.4	1.28	14.0	0.62	39.5	23.0	0.81	0.044	24.0	03.7	0.60				
10276	NACIONAL X V.A.	1979	07	23.4	1.27	4	50	1.72	03.9	1.27	12.0	0.74	33.6	33.3	0.67	0.063	24.0	06.7	0.55				
10277		1978	06	24.1	1.31	7	43	1.93	11.4	1.31	11.2	0.60	31.7	22.6	0.74	0.071	24.1	07.5	0.57				
10278		1978	06	27.0	1.08	7	45	1.69	07.0	1.08	07.6	0.64	34.3	24.8	0.76	0.070	23.9	04.8	0.50				
10279		1979	11	16.7	1.63	4	49	2.49	11.5	1.63	09.8	0.66	36.6	26.0	0.75	0.045	25.5	04.3	0.52				
10280		1980	11	24.3	1.11	2	49	1.79	10.9	1.11	20.9	0.62	37.0	25.0	0.76	0.071	23.3	08.1	0.54				
10281		1978	06	24.4	1.17	5	44	1.87	08.5	1.17	10.1	0.63	34.9	15.6	0.79	0.074	23.7	06.0	0.54				
10282		1978	07	32.4	.94	8	51	1.45	06.3	.94	10.3	0.65	32.8	32.7	0.64	0.078	20.6	05.1	0.59				
10283		1980	11	23.3	1.25	1	49	1.91	09.4	1.25	11.8	0.65	34.5	23.8	0.70	0.059	25.0	04.8	0.55				
10285	EET-156 X SCA-6	1979	11	21.4	1.12	4	57	1.71	08.2	1.12	08.3	0.65	41.8	27.0	0.73	0.057	22.3	04.0	0.52				
10286	EET-156 X SCA-6	1980	06	26.1	1.06	2	56	1.58	09.7	1.06	11.3	0.67	40.6	30.3	0.72	0.078	22.5	08.0	0.52				
10288	SCA	1980	04	23.6	1.1	5	51	1.81	08.9	1.1	10.3	0.61	30.5	26.5	0.75	0.061	23.3	05.2	0.56				

TUR accession number	Seed										Fruit																			
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in				
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	Ratio	Ratio	mean	CV	mean	CV	mean	CV	mean	CV	Basic fruit surface colour	ridges	furrows	ridges of ripe fruit	ridges	furrows	ridges of ripe fruit
10259	13.8	03.8	08.5	05.4	0	0	0	+	0	150	11.3	098	05.7	0.65		567	27.6	11.2	15.4	08.2	15.4	29C4	0	0	0					
10260	14.0	02.4	10.1	08.3	0	0	+	0	0	187	13.2	080	10.3	0.43		491	33.1	12.5	14.3	06.9	10.3	30B4	0	0	0					
10262	13.4	06.7	08.0	11.3	0	0	+	0	0	145	10.0	083	06.8	0.57	0.54	425	20.5	10.0	12.0	06.3	13.8	29D3	0	0	0					
10264	14.4	06.9	10.4	11.5	0	0	+	+	0	109	11.7	091	08.4	0.40	0.54	555	24.9	14.7	10.9	08.9	14.6	30E6	0	0	0					
10265	12.7	05.5	09.0	14.4	0	0	+	+	0	195	13.7	095	10.0	0.49	0.49	692	30.4	15.1	15.2	09.7	17.5	30E8	0	0	0					
10266	13.5	07.9	11.0	08.2	0	0	+	0	0	171	06.1	085	09.5	0.50		522	24.2	15.3	05.2	09.1	03.3	30E7	0	0	0					
10267	12.2	07.4	09.0	14.9	0	0	+	0	0	175	13.2	095	10.0	0.54	0.54	606	25.0	14.2	14.0	08.5	16.5	29D6	0	0	0					
10268	14.3	07.0	10.3	10.7	0	0	+	+	0	213	10.6	094	07.3	0.44	0.46	786	24.6	14.9	10.7	09.0	17.8	29E9	0	0	0					
10269	12.4	05.6	09.1	12.0	0	0	0	+	0	167	13.4	079	12.9	0.47		516	38.1	13.3	21.5	08.7	22.7	29D5	0	0	0					
10270	10.9	10.4	07.7	15.6	0	0	0	+	0	154	08.4	091	06.3	0.59		568	20.5	17.2	04.9	08.6	06.4	30E7	9	5	5					
10271	11.9	06.7	08.6	09.3	0	0	0	+	0	163	11.3	091	11.3	0.54		585	29.3	14.3	13.3	08.0	14.0	30E7	1	0	0					
10272	12.9	06.2	09.5	14.7	0	0	+	+	0	208	10.4	097	10.3	0.47	0.43	716	31.7	15.0	16.7	09.0	18.4	30E7	1	0	0					
10273	12.3	03.8	09.0	07.8	0	0	0	+	0	189	12.3	092	07.1	0.49		690	29.6	13.9	13.2	08.4	18.7	29D6	0	0	0					
10275	14.4	05.5	09.3	08.6	0	0	+	+	0	189	13.9	107	09.3	0.57	0.50	089	29.0	15.3	12.4	07.3	21.9	30D5	9	8	7					
10276	13.2	09.8	08.5	11.0	0	0	0	+	0	171	12.3	087	13.0	0.51		534	29.9	12.9	11.6	07.5	16.0	29C4	0	0	0					
10277	13.7	05.0	10.1	05.9	0	0	+	0	0	163	10.4	084	09.5	0.51		449	27.8	18.6	05.9	12.1	04.9	29E8	0	0	0					
10278	12.0	06.0	09.0	08.9	0	0	0	+	0	179	11.6	080	10.0	0.45		493	28.2	14.6	14.4	09.9	14.1	29D5	0	0	0					
10279	13.2	04.5	10.4	07.7	0	0	+	+	0	231	13.0	098	07.1	0.42		814	24.3	15.9	11.3	08.9	12.4	29E8	1	0	0					
10280	12.7	07.0	08.3	10.8	0	0	+	+	0	168	10.5	085	10.6	0.51	0.49	520	28.8	11.8	11.0	06.5	20.0	29D6	0	0	0					
10281	12.9	07.2	08.4	11.6	0	0	+	0	0	166	11.2	078	10.4	0.47	0.45	471	28.5	11.4	13.9	06.9	10.7	29B3	0	0	0					
10282	12.2	05.8	07.7	01.8	0	0	+	0	0	182	10.1	074	06.4	0.41		423	35.9	11.8	09.0	08.3	04.2	28D8	9	8	5					
10283	13.7	04.4	08.7	06.9	0	0	0	+	0	172	11.0	088	09.6	0.51	0.53	585	29.6	12.3	14.6	07.5	20.0	29C4	2	0	0					
10285	11.7	04.3	08.7	11.5	0	0	0	+	0	220	10.0	097	07.2	0.44	0.52	734	22.6	14.6	15.7	06.5	15.4	20F7	0	0	0					
10286	11.8	09.3	07.5	12.0	0	0	+	0	0	174	15.5	086	08.0	0.49	0.54	520	31.3	12.1	14.4	07.0	18.6	30E6	0	0	0					
10288	13.1	05.3	08.5	10.6	0	0	0	+	0	189	15.5	085	11.9	0.45	0.50	635	33.4	15.5	13.5	08.5	16.5	29D6	5	0	0					

TUH accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10259	0	0.74	4	3	2	1	7	2	0.26	1.35	0.11	0.96	0.06	6.64	0.49	8.52	0.52	2.52	0.23	6.79	0.51	2.28	0.22	
10260	0	0.58	7	6	7	9	3	2.66	0.45	1.57	0.21	1.02	0.04	7.68	0.53	10.15	0.53	2.04	0.13	9.21	0.60	2.22	0.25	
10262	0	0.86	2	2	3	3	7	2.27	0.17	1.91	0.00	0.94	0.00	6.15	0.30	9.16	0.72	2.12	0.29	7.63	0.31	1.91	0.19	
10264	0	0.67	4	4	5	5	5	2.76	0.10	1.33	0.11	1.03	0.03	6.99	0.21	9.32	0.45	2.01	0.00	7.60	0.30	2.73	0.27	
10265	0	0.67	6	5	4	1	7	2.48	0.19	1.13	0.12	0.96	0.06	6.66	0.50	8.65	0.47	1.93	0.12	7.59	0.32	2.32	0.20	
10266	0	0.68	6	5	5	1	3	2.49	0.13	1.41	0.11	0.97	0.07	7.41	0.35	8.89	0.37	2.33	0.23	7.62	0.47	2.97	0.20	
10267	0	0.69	5	4	5	2	7	2.97	0.14	1.31	0.13	0.99	0.04	7.12	0.62	9.26	0.59	2.05	0.12	8.04	0.50	2.55	0.32	
10268	0	0.67	6	5	5	3	7	2.76	0.17	1.27	0.15	1.01	0.05	7.91	0.43	9.43	0.44	2.23	0.26	8.01	0.50	2.66	0.30	
10269	0	0.63	5	5	5	3	5	2.66	0.22	1.32	0.09	1.03	0.07	7.21	0.48	9.91	0.14	2.33	0.18	7.99	0.89	2.82	0.39	
10270	0	0.53	7	3	1	0	3	2.71	0.20	1.56	0.07	1.12	0.10	6.72	0.34	9.55	0.44	2.46	0.23	7.83	0.54	2.42	0.19	
10271	0	0.56	4	5	5	0	3	2.91	0.19	1.06	0.07	1.00	0.03	7.60	0.36	9.92	0.31	2.62	0.22	8.60	0.35	3.65	0.39	
10272	0	0.62	5	3	5	1	7	2.98	0.19	1.12	0.15	0.97	0.07	6.17	0.41	9.16	0.49	2.09	0.18	7.85	0.40	3.43	0.23	
10273	0	0.66	6	5	5	1	5	2.62	0.24	1.32	0.08	0.98	0.04	6.94	0.20	9.00	0.96	2.20	0.29	7.85	0.52	2.53	0.21	
10275	2	0.62	7	7	3	1	7	2.94	0.17	1.09	0.06	0.97	0.05	7.32	0.36	8.48	0.70	2.30	0.28	6.75	0.64	2.50	0.33	
10276	0	0.66	5	5	4	3	5	3.02	0.23	1.36	0.10	1.00	0.03	6.97	0.55	9.02	0.59	2.28	0.19	7.89	0.44	3.03	0.22	
10277	0	0.65	5	3	3	2	3	2.40	0.60	1.30	0.00	1.00	0.02	7.90	0.37	9.09	0.39	2.46	0.20	8.47	0.62	3.71	0.40	
10278	0	0.53	4	5	5	1	3	2.74	0.13	1.10	0.07	1.00	0.02	8.21	0.55	10.00	0.29	2.14	0.13	9.52	0.54	2.50	0.22	
10279	0	0.58	7	5	5	5	7	2.80	0.16	1.12	0.09	0.96	0.00	7.39	0.49	8.86	0.83	2.12	0.31	7.07	0.25	2.21	0.21	
10280	0	0.57	5	2	5	0	5	2.02	0.18	1.46	0.11	1.00	0.03	7.50	0.41	8.41	0.49	2.40	0.23	7.50	0.59	2.77	0.60	
10281	0	0.67	4	5	5	1	3	2.13	0.21	1.40	0.25	1.01	0.02	9.20	0.58	9.97	0.56	2.40	0.34	7.36	0.47	2.01	0.10	
10282	3	0.76	4	3	6	7	3	2.69	0.20	1.37	0.09	0.97	0.06	7.29	0.64	9.59	0.41	2.10	0.17	8.12	0.43	2.85	0.30	
10283	0	0.80	4	3	4	0	7	2.33	0.29	1.29	0.09	1.00	0.03	7.90	0.29	9.93	0.10	2.30	0.10	6.83	0.26	2.08	0.10	
10285	0	0.69	7	7	6	3	5	2.76	0.20	1.52	0.05	1.04	0.05	7.14	0.55	7.93	0.81	2.73	0.29	6.93	0.36	2.71	0.26	
10286	0	0.74	5	5	3	3	5	2.53	0.22	1.17	0.08	0.97	0.06	7.96	0.23	7.75	0.51	2.11	0.11	7.23	0.44	2.45	0.23	
10288	0	0.95	5	3	6	0	5	3.13	0.14	1.12	0.10	0.98	0.05	7.05	0.20	8.22	0.39	2.43	0.34	6.71	0.44	2.41	0.29	

TUP accession number	Flower			Leaf		Compatibility and resistance								Notes				
	Anthocyanin in ligula	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crinipellis pernicioso</i>	References	<i>Monilia roeri</i>		References	<i>Ceratocystis fimbriata</i>	References	
10259	7	3	10A4	0	30C4	5D6												
10260	3	7	10A3	0	30B4	7D7												
10262	0	3	10A3	0	30B3	7D7												
10264	3	3	10A3	0	30A3	6D7	0	41,43		S	43		S	43	T-R	1,43	GOOD COMBINING ABIL	
10265	3	3	BA2	0	30A4	8D6												
10266	7	7	10A5	0	30A4	7D8	0	P									T-R 1	
10267	3	3	9A4	0	30B4	7D7	+	22		S	43		S	43	T	43	GOOD COMBINING ABIL	
10268	3	3	10A3	0	30A3	6D7	+	43		T	43		S	43	S	43		
10269	3	3	10A5	0	30B3	6C6												
10270	7	3	10B5	7	30B4	9D8	0	P										
10271	0	3	10A4	0	30B5	7D7	-	P										
10272	3	3	9A3	0	30A3	7D6												
10273	7	7	10A4	0	30B4	8E6				S	43		S	43	T	43	GOOD COMBINING ABIL	
10275	0	3	10A4	3	30A4	9D7												
10276	3	7	10A3	0	30C3	7D7				S	43		S	43			DUBIOUS	
10277	0	3	30A2	0	29C5	8D7	+	P										
10278	3	0	9A4	0	29B4	6D8												
10279	3	3	10A3	0	3A5	7C7				S	43		S	43				
10280	7	7	10A3	0	30C4	5C3												
10281	3	0	11A3	0	30C3	8D8	0	41,42,43									T-R 1,72,74	
10282	3	0	10A4	3	30A4	6D6												
10283	3	3	10A4	0	30B3	5E7												
10285	3	3	10A4	0	29C5	7C7												
10286	0	3	BA3	0	30C4	6C6											T-R 1,27	
10288	0	3	BA3	0	29A4	8D7												HYBRID WITH SCA?

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10289	G	13	14	EET-399	SEL. PATOLOGIA		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	1
10290	G	4	15	EET-400	SEL. PATOLOGIA		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	1
10291	H	17	5	G-8		INDONESIA						
10293	B	45	12	GA-11		HAITI		GRAND ANSE				
10296	B	67	10	GS-29		GRENADA				2	HACIENDA BOULOUQUE	
10297	B	59	13	GS-36		GRENADA				2	HACIENDA BOULOUQUE	
10309	B	46	11	ICS-1	EET-274	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10311	B	52	13	ICS-6	EET-275	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10313	B	42	7	ICS-16		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10315	B	74	8	ICS-39	EET-325	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10316	B	39	6	ICS-40	EET-326	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10317	H	25	10	ICS-43		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10318	B	51	10	ICS-44		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10321	B	38	10	ICS-40		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10323	H	2	7	ICS-53		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10325	B	34	3	ICS-60		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10326	B	73	12	ICS-89	EET-328	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10329	B	78	3	ICS-117		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	2
10333	B	70	13	ICS-137		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	2
10335	B	32	4	IDS-95	EET-111	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10337	B	68	13	ICS-100	EET-312	TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10338	B	77	6	ICS-133		TRINIDAD		RIVER ESTATE		3	IMPERIAL COLLEGE	
10339	B	7	13	INC-60		PERU		IQUITOS				
10341	B	25	15	INC-67	EET-116	PERU		IQUITOS				
10343	G	16	13	JACA		BRASIL	BAHIA	BAHIA		3	MUTACION	

TUR accession number	Pedigree	General						Production						Seed							
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm	
								mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV		
																				Ratio seed weight/seed length	
10289	SILECIA-1	1979	11	26.9	1.01	3	47	1.53	19.6	1.01	21.9	0.66	36.7	18.3	0.78	0.078	25.1	07.5	0.47		
10290	SILECIA-1	1978	06	27.2	1.14	5	48	1.65	17.4	1.14	08.8	0.69	32.2	31.1	0.67	0.079	25.5	06.3	0.50		
10291		1979	11	23.0	1.23	7	40	1.92	31.3	1.23	26.5	0.68	34.7	22.2	0.72	0.051	23.6	12.0	0.54		
10293		1979	09	21.0	1.18	5	47	1.07	15.0	1.12	15.4	0.65	36.0	00.7	0.86	0.032	23.6	05.0	0.58		
10296		1979	07	19.3	1.82	5	38	2.8	05.2	1.81	07.1	0.65	20.4	22.2	0.75	0.044	26.5	05.4	0.56		
10297		1979	01	16.8	1.67	5	47	2.62	06.5	1.67	08.1	0.64	35.6	21.4	0.76	0.034	26.4	04.4	0.55		
10309		1979	11	16.3	1.7	4	45	2.61	08.6	1.7	02.1	0.65	36.0	13.3	0.60	0.056	27.9	05.4	0.51		
10311		1980	02	17.7	1.61	2	51	2.6	09.7	1.61	20.7	0.62	34.7	25.6	0.63	0.040	27.0	04.0	0.57		
10313		1979	07	16.8	1.74	4	51	2.94	12.5	1.74	13.8	0.59	34.2	26.6	0.67	0.040	29.6	08.9	0.56		
10315		1979	01	22.7	1.47	7	42	2.3	05.5	1.47	05.0	0.64	30.0	20.7	0.71	0.050	26.1	06.9	0.50		
10316		1980	04	56.6	1.99	3	49	3.05	15.9	1.79	16.8	0.65	35.0	23.7	0.71	0.040	29.0	06.2	0.55		
10317		1979	06	26.2	1.07	4	39	1.73	14.6	1.07	18.1	0.62	33.1	15.7	0.65	0.065	22.7	07.9	0.54		
10318		1979	04	18.4	1.56	5	43	2.47	11.6	1.56	09.3	0.63	34.9	16.6	0.61	0.047	27.6	07.2	0.50		
10321		1978	12	28.2	.99	7	49	1.59	07.6	.99	08.1	0.62	36.0	20.6	0.73	0.073	23.9	05.4	0.48		
10323		1978	07	28.9	1.25	7	41	2.01	17.3	1.25	13.5	0.62	29.7	23.9	0.72	0.056	25.2	08.3	0.56		
10325		1980	09	20.9	1.52	3	40	2.54	10.1	1.52	13.6	0.61	31.4	21.3	0.79	0.052	26.9	07.1	0.65		
10326		1979	01	31.6	1.53	6	34	2.42	09.4	1.53	10.5	0.63	20.7	32.4	0.61	0.028	24.8	05.6	0.57		
10329	ICS-6 x SCA-6	1979	07	17.8	1.67	4	42	2.63	09.4	1.67	11.5	0.64	33.6	25.0	0.60	0.053	25.4	03.5	0.58		
10333	ICS-6 x SCA-12	1979	05	19.7	1.65	3	47	2.56	09.6	1.65	06.5	0.64	30.7	23.0	0.66	0.039	24.3	04.4	0.55		
10335		1979	12	43.1	.63	6	43	1.36	13.7	.69	16.3	0.53	33.3	21.6	0.77	0.079	23.5	06.5	0.49		
10337		1979	05	22.8	1.47	5	46	2.27	17.0	1.47	16.3	0.66	29.9	26.1	0.65	0.056	25.2	11.6	0.52		
10338		1979	01	22.2	1.41	3	45	2.26	06.8	1.41	09.5	0.62	32.0	25.9	0.71	0.055	23.6	05.1	0.59		
10339		1979	02	23.8	.95	3	57	1.41	14.4	.95	13.4	0.67	44.3	29.8	0.79	0.069	27.4	08.5	0.53		
10341		1979	07	26.7	.92	5	59	1.34	09.8	.92	08.9	0.69	42.3	27.6	0.70	0.058	22.1	06.1	0.52		
10343		1979	11	44.2	.81	2	37	1.23	09.7	.81	07.4	0.65	27.8	20.9	0.75	0.074	21.5	03.2	0.50		

TUIR accession number	Seed										Fruit																		
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in			
	mean	CV	mean	CV	white	grayish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	Ratio	Ratio	mean	CV	mean	CV	mean	CV	mean	CV	Basic fruit surface colour	ridges	furrows	ridges of ripe fruit	Anthocyanin intensity in	ridges of ripe fruit
10289	11.9	06.3	08.6	10.9	+	0	+	+	0	190	13.1	061	10.3	0.43	0.67	472	32.1	09.3	14.5	04.3	15.7	2905	0	0	0				
10290	12.7	08.7	07.9	10.1	+	0	+	+	0	161	14.2	076	10.3	0.48	0.56	409	27.7	09.2	09.3	05.2	15.2	29E7	0	0	0				
10291	12.7	12.6	09.0	07.2	0	0	0	+	0	151	14.9	104	08.2	0.67	0.61	304	34.0	13.1	15.4	09.0	22.0	06.2	0	0	7				
10293	13.3	09.0	08.9	07.1	0	0	+	0	0	161	07.5	079	09.3	0.49		430	21.0	11.9	11.9	06.9	15.0	2903	0	3	1				
10296	14.8	06.1	10.8	05.9	0	0	0	+	0	193	11.7	093	09.5	0.47		652	30.4	14.3	09.7	09.3	13.7	2906	9	9	9				
10297	14.4	04.2	11.0	05.7	0	0	+	0	0	232	07.4	105	04.5	0.44		1062	15.6	17.0	08.7	11.3	15.1	2906	9	9	8				
10309	10.1	05.2	09.2	10.0	0	0	0	+	0	173	07.4	094	09.7	0.40	0.50	648	31.2	12.9	15.2	08.4	20.0	2908	6	7	5				
10311	15.8	03.8	10.0	09.0	0	0	0	+	0	199	10.3	097	06.2	0.38	0.50	613	17.0	19.2	13.0	09.3	14.3	2908	0	0	0				
10313	16.6	06.9	09.7	08.0	0	0	+	0	0	179	05.3	105	07.1	0.59	0.51	863	23.5	17.5	11.1	11.7	13.0	29E7	9	9	3				
10315	13.1	05.3	09.4	06.4	0	0	0	+	0	170	15.9	094	04.6	0.56		595	31.3	13.7	11.0	07.9	13.7	2905	0	0	0				
10316	16.0	7.5	10.6	0.5	0	0	+	+	0	171	11.0	12	0.2	0.92	0.99	132	27.9	13.0	12.9	0.2	12.9	2917	0	0	0				
10317	12.3	07.3	08.4	11.9	0	0	+	0	0	177	11.9	077	10.0	0.49		505	11.9	19.9	12.0	06.0	19.1	2907	9	0	5				
10318	13.8	04.3	09.6	10.4	0	0	0	+	0	187	06.0	093	09.2	0.92		734	29.0	13.0	13.1	08.6	14.0	3000	9	7					
10321	11.4	03.5	07.3	06.8	0	0	0	+	0	126	07.9	093	06.5	0.74		493	20.5	10.5	09.5	07.3	11.0	3003	0	0	0				
10323	10.1	06.4	09.8	14.3	0	0	+	0	0	100	09.9	095	10.6	0.92		590	27.1	15.1	08.4	04.5	13.3	3000	7	0	1				
10325	14.0	0.1	10.2	10.0	+	0	+	+	+	206	11.0	05	10.3	0.41	0.43	602	25.0	12.9	13.2	1.4	11.6	08E6	0	0	0				
10326	14.2	06.3	10.7	09.3	+	0	+	+	0	183	10.9	095	07.4	0.50		727	22.1	16.3	09.8	10.1	11.9	29E7	0	0	0				
10329	14.8	03.4	10.4	05.8	+	0	+	+	0	194	13.4	091	09.9	0.47		638	26.5	12.5	12.0	08.2	12.2	2906	9	0	5				
10333	13.7	05.8	11.0	08.2	+	0	+	+	0	235	11.1	093	09.6	0.40		790	25.1	14.5	09.2	09.7	14.1	29B3	9	7	5				
10335	11.5	13.0	08.4	12.0	0	0	+	0	0	177	11.6	079	03.0	0.42		419	07.0	10.0	19.2	06.0	10.5	2900	9	0	7				
10337	13.2	04.9	08.8	16.0	0	0	+	0	0	167	14.0	086	10.5	0.52	0.52	530	28.8	13.3	17.0	08.5	18.2	2908	3	0	0				
10338	14.0	05.7	10.6	09.4	+	0	+	+	0	212	12.7	087	09.2	0.41		582	30.9	12.2	10.7	08.1	16.4	29B3	0	0	0				
10339	11.8	06.8	06.9	14.5	0	0	0	+	0	169	10.6	091	09.9	0.57		619	27.4	12.6	12.5	09.3	16.1	29E0	0	0	0				
10341	11.4	06.0	08.4	09.7	0	0	0	+	0	197	11.3	093	11.3	0.67	0.40	735	31.0	13.0	13.7	08.6	13.4	3004	0	0	0				
10343	10.7	04.7	07.8	07.7	0	0	0	+	0	138	08.5	079	12.1	0.57	0.51	375	25.5	11.6	14.6	07.3	20.5	2907	3	0	0				

TUR accession number	Fruit							Flower																		
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity	Fruit apex form	Basal constriction	Mesocarp hardness	Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10289	0	0.53	6	7	5	5	3	2.26	0.08	1.28	0.09	1.01	0.04	7.12	0.33	8.92	0.34	2.33	0.24	6.96	0.46	2.33	0.23			
10290	0	0.78	5	5	5	3	5	2.29	0.21	1.22	0.06	1.01	0.02	7.85	0.30	8.94	0.30	2.29	0.33	7.49	0.43	2.19	0.14			
10291	5	0.64	5	3	3	0	5	2.3	0.3	1.3	0.1	1.0	0.04	7.8	0.3	8.9	0.3	2.5	0.2	8.8	0.3	2.2	0.1			
10293	2	0.79	5	2	4	0	5	2.22	0.15	1.44	0.18	0.94	0.08	8.98	0.28	7.52	0.48	2.34	0.26	7.65	1.00	2.07	0.29			
10296	7	0.74	6	5	5	0	5	2.54	0.16	1.50	0.10	1.03	0.07	8.31	0.53	9.51	0.55	2.80	0.19	9.99	0.57	3.51	0.40			
10297	6	0.65	5	5	7	1	5	2.74	0.08	1.43	0.06	0.96	0.06	8.66	0.23	9.62	0.33	2.83	0.21	9.45	0.44	3.20	0.24			
10309	3	0.59	4	3	5	0	3	2.88	0.14	1.85	0.18	1.01	0.05	9.13	0.82	9.56	0.93	2.38	0.20	9.78	0.71	2.58	0.25			
10311	0	0.84	4	3	5	1	7	2.32	0.15	1.53	0.12	1.02	0.09	8.70	0.30	11.39	0.43	2.84	0.18	10.46	0.61	2.57	0.23			
10313	7	0.76	2	3	3	0	5	2.08	0.10	1.51	0.08	1.0	0.03	7.97	0.38	10.22	0.55	2.62	0.28	8.21	0.63	2.21	0.21			
10315	0	0.71	5	5	5	3	5	2.34	0.31	1.42	0.13	0.95	0.08	7.84	0.54	8.77	0.69	2.49	0.32	8.71	0.90	3.01	0.34			
10316	0	0.67	5	5	5	3	5	2.38	0.17	1.47	0.07	1.01	0.03	8.80	0.23	9.57	0.91	2.43	0.31	9.30	0.48	2.93	0.22			
10317	4	0.71	3	3	5	3	3	2.07	0.13	1.29	0.11	0.96	0.05	7.64	0.59	8.76	0.59	2.38	0.16	8.24	0.63	2.92	0.20			
10318	5	0.74	4	5	5	1	5	2.17	0.16	1.58	0.10	1.07	0.08	8.33	0.42	9.42	0.58	2.54	0.16	8.88	0.48	2.57	0.27			
10321	0	0.80	2	0	1	0	5	2.20	0.18	1.16	0.11	1.0	0.03	7.70	0.47	9.67	0.53	2.52	0.34	8.65	0.41	3.17	0.20			
10323	4	0.86	4	5	6	1	3	2.43	0.21	1.35	0.15	1.01	0.03	7.82	0.37	9.57	0.51	2.33	0.33	8.69	0.94	2.87	0.24			
10325	0	0.79	5	3	7	1	3	2.54	0	1.42	0.05	1.53	0.16	8.42	0.42	9.20	0.79	2.51	0.23	8.73	0.51	2.54	0.28			
10326	0	0.82	5	4	4	1	3	1.69	0.14	1.86	0.19	1.18	0.17	8.07	0.47	8.45	0.39	2.80	0.27	8.31	0.22	2.58	0.25			
10329	3	0.72	3	3	5	1	3	2.30	0.24	1.30	0.08	1.00	0.01	7.93	0.54	8.35	0.26	2.24	0.23	8.50	0.46	2.93	0.08			
10333	2	0.68	4	5	7	3	5	2.22	0.20	1.42	0.10	0.97	0.06	7.57	0.52	8.90	0.78	2.55	0.20	8.54	0.61	2.55	0.41			
10335	5	0.62	5	5	7	0	2	3.08	0.14	1.27	0.07	0.98	0.04	7.61	0.17	8.10	3.22	2.36	0.32	8.93	0.48	2.97	0.25			
10337	0	0.71	4	3	7	0	5	2.32	0.12	1.47	0.07	1.03	0.04	8.15	0.53	9.33	0.31	2.50	0.29	9.13	0.84	2.87	0.31			
10338	0	0.72	6	5	9	5	5	2.25	0.14	1.19	0.09	0.99	0.03	8.72	0.61	8.48	0.31	2.89	0.12	7.39	0.48	2.71	0.23			
10339	0	0.49	2	2	2	0	3	2.49	0.18	1.20	0.10	0.93	0.04	7.46	0.43	7.80	0.46	2.53	0.26	7.33	0.47	2.66	0.21			
10341	0	0.71	3	3	5	1	7	2.68	0.30	1.48	0.06	1.02	0.05	7.69	0.31	8.20	0.39	2.85	0.21	7.23	0.79	2.78	0.32			
10343	0	0.93	4	3	4	1	7	1.60	0.07	1.20	0.05	0.95	0.05	8.00	0.50	8.60	0.40	2.20	0.20	7.60	0.30	2.20	0.10			

TUR accession number	Flower					Leaf		Compatibility and resistance						Notes				
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crimipellis pernicioso</i>	References	<i>Monilia roreni</i>		References	<i>Ceratocystis fimbriata</i>	References	
10289	3	3	1A2	0	29C5	6D8				M-R	22,37	S	43	T-R	1,43			
10290	0	0	1A2	0	29B5	6D7	0			R	22,37,41			T-R	1	GOOD COMBINING ABIL		
10291	0	0	9A6	0	30D5	10D7												
10293	0	0	11A4	0	30B5	3C7		R	37							DUBIOUS		
10296	3	0	10B5	7	30B4	8E6	0	42,44										
10297	3	3	11A4	3	30B4	8D5	0	44										
10309	3	0	11B5	7	30C4	8E6	+	10,11,20	T-R	1	T-R	1,37		S	43	GOOD COMBINING ABIL		
10311	7	0	10A4	0	30B4	7C6	+	10,11,20	T-R	1	T-R	1	S	43	T-R	1	GOOD COMBINING ABIL	
10313	3	3	11B5	7	30B4	5C4	0	30,43		S	43	S	43	T	43			
10315	0	7	9A3	0	30B4	6C7	0	32										
10316	0	0	9A3	0	30C4	2D4	0	44										
10317	3	3	11A5	3	29B4	9D7	0	32	T-R	1						ERROR: ICS-485		
10318	3	0	10A4	3	30B4	7C4	+	30			T-R	1,37						
10321	0	0	10A4	3	30C4	6C4	0	32	R	37						DUBIOUS		
10323	3	0	11A4	7	30B4	9C8	0	30								DUBIOUS		
10325	3	0	9A4	0	30B6	8C7	0	30										
10326	0	0	10A3	0	30C5	7E7	0	41,42,43	S	43	S	43		S	43	GOOD COMBINING ABIL		
10329	0	0	9A3	3	30C5	4D7										DUBIOUS; MEX. TYPE		
10333	0	3	10A4	3	30A4	8D8										DUBIOUS; MEX. TYPE		
10335	3	0	11A4	7	30B4	9D7	+	10,10,41			T-R	1,32,37	S	43	S	43		
10337	7	7	10A4	0	30B4	6D6	0	28,42,43		S	43	S	43	T	43			
10338	0	0	9A3	0	30C5	5C5												
10339	7	7	10A3	0	30B2	5C7								R	37			
10341	7	7	12A3	0	30B4	7D6	0	40,41,42	T-R	1	S	43		S	43	T-R	1,43	GOOD COMBINING ABIL
10343	3	3	8A3	0	30B4	7C7												

General												
TUP	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10344	G	17	12	LARANJA			BRASIL	BAHIA	BAHIA	3	MUTACION	
10345	B	29	9				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10346	B	20	10	LA USHIBA			PERU					
10351	J	15	7	MA-13			BRASIL	AMAZONAS	MANAUS	1	SAN ANTONIO	
10352	J	14	7	MA-13			BRASIL	AMAZONAS	MANAUS	1	SAN ANTONIO	
10353	G	23	14	NATINA			COSTA RICA					
10368	J	16	3	MOCORONGU			BRASIL	PAPA	SAMBRUM	3	ESTAC. EXPERIMENTAL	
10372	B	6	10	MA-39			PERU					
10374	B	11	13	DC-77	SCO-77/VLA-006		VENEZUELA		OCUMARE	2	HDA. MONASTERIO	
10376	C	61	6	P-10	10P							
10377	H	30	11	P-15								
10380	H	31	11	P-16								
10381	H	27	11	P-19	19P							
10382	J	7	8	P-19	19P							
10383	H	28	15	P-20	20P							
10385	B	80	5	P-23	23P							
10387	B	43	11	PA-13			PERU		PARINARI			
10388	C	72	9	PA-16			PERU		PARINARI			
10389	J	9	9	PA-18			PERU		PARINARI			
10390	C	74	13	PA-81	PA-18		PERU		PARINARI			
10391	B	41	8	PA-121			PERU		PARINARI			
10392	B	31	14	PA-121			PERU		PARINARI			
10393	B	35	8	PA-167			PERU		PARINARI			
10397	G	14	10	PORCELANA-3	PV		VENEZUELA					
10398	G	24	15	POUND-7			PERU					

TUR accession number	Pedigree	General				Production						Seed								
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Seed length in mm		Ratio seed width/seed length
								mean	CV	mean	CV	mean	CV	mean	CV	mean	CV			
10344		1978	07	45.9	.71	7	43	1.16	16.7	.71	20.7	0.61	30.8	26.6	0.72	0.149	19.6	08.2	0.63	
10345		1979	11	24.2	1.61	2	35	2.74	11.7	1.61	17.8	0.59	25.6	23.8	0.73	0.046	26.0	05.4	0.60	
10346		1979	11	46.7	1.13	1	30	1.99	14.9	1.13	16.7	0.57	31.7	26.0	0.72	0.053	33.3	05.6	0.59	
10351		1980	05	32.6	.83	6	56	1.70	12.0	.83	17.3	0.65	36.8	9.3	0.66	0.056	24.0	06.0	0.59	
10352		1980	07	29.8	.83	7	43	1.36	13.2	.83	16.9	0.61	30.8	30.9	0.65	0.076	23.5	06.8	0.48	
10353		1980	02	23.7	1.16	1	44	1.83	08.8	1.16	11.5	0.64	36.9	16.5	0.63	0.063	23.9	02.9	0.56	
10360		1980	05	22.0	.73	7	50	1.45	11.7	.73	11.9	0.60	30.5	23.7	0.72	0.086	24.8	06.1	0.46	
10372		1979	02	38.8	1.17	7	36	1.67	06.7	1.17	05.7	0.70	22.4	26.3	0.61	0.095	14.3	04.0	0.35	
10374		1979	01	14.2	2.13	4	44	3.16	10.1	2.13	08.0	0.60	33.0	24.0	0.75	0.036	26.8	05.6	0.57	
10376		1978	04	18.8	1.69	7	42	2.71	08.1	1.69	05.7	0.61	33.6	19.3	0.60	0.040	26.3	06.1	0.81	
10379		1979	04	31.1	.74	5	41	1.47	11.7	.74	12.7	0.67	34.2	16.7	0.63	0.079	20.6	06.9	0.39	
10380		1979	02	29.7	.88	5	51	1.74	09.6	.88	06.6	0.66	30.0	27.0	0.75	0.080	20.0	04.3	0.55	
10381		1979	06	39.4	.71	7	40	1.71	16.9	.71	06.6	0.72	35.5	27.0	0.75	0.120	19.7	04.6	0.51	
10382		1980	06	34.2	.87	6	47	1.41	19.9	.87	18.0	0.66	33.9	29.2	0.72	0.077	23.0	06.5	0.53	
10383		1979	06	26.3	1.07	5	40	1.65	10.9	1.07	11.7	0.65	35.9	20.9	0.79	0.071	23.2	04.2	0.53	
10385		1979	01	34.6	.93	7	46	1.65	07.2	.93	12.7	0.57	35.0	23.9	0.68	0.096	25.4	05.2	0.54	
10387		1979	03	30.7	1.05	5	40	1.61	10.7	1.05	06.3	0.65	32.0	20.6	0.64	0.060	22.0	06.6	0.50	
10388		1980	07	34.8	.85	5	46	1.39	02.3	.85	09.0	0.65	33.9	26.0	0.74	0.077	20.1	04.5	0.55	
10389		1980	06	36.1	.81	6	49	1.22	15.3	.81	16.7	0.63	34.1	29.0	0.70	0.084	20.7	06.9	0.50	
10390		1980	08	27.9	1.11	3	47	1.81	07.7	1.11	04.4	0.69	32.4	19.7	0.69	0.069	20.6	03.0	0.53	
10391		1979	07	33.6	1	5	41	1.56	10.1	1	11.3	0.64	37.0	25.1	0.73	0.076	21.6	04.8	0.53	
10392		1979	02	60.5	.94	2	36	1.54	15.0	.94	15.6	0.57	33.6	17.4	0.72	0.065	22.1	06.5	0.50	
10393		1978	04	36.4	1.07	5	43	1.69	12.2	1.07	12.5	0.63	36.0	24.0	0.72	0.065	23.4	03.8	0.53	
10397		1979	05	28.1	1.05	2	44	1.67	11.4	1.05	13.0	0.60	33.0	24.0	0.70	0.056	21.3	05.9	0.61	
10398		1978	07	51.7	.91	6	34	1.72	15.7	.91	13.0	0.63	36.5	28.0	0.74	0.062	21.0	05.1	0.56	

TUH accession number	Seed										Fruit																	
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in		
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	Ratio	Ratio	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	ridges of ripe fruit	
10344	12.3	05.7			0	0	+	0	0	0.69	11.6	074	10.8	1.07		200	30.3			29C3	0	0	0					
10345	15.7	08.9	10.4	12.5	0	0	+	0	0	171	12.3	095	12.6	0.56	0.50	715	30.9	14.1	14.2	07.8	18.5	29B3	9	0	8			
10346	12.7	05.4	10.8	07.0	0	0	+	0	0	200	10.7	083	09.7	0.50	0.49	666	27.9	14.0	15.0	08.9	18.0	30B8	9	9	8			
10351	10.8	05.6	08.2	09.8	0	0	+	0	0	171	20.5	077	09.1	0.95		427	28.3	09.5	14.7	06.3	15.9	30C4	0	0	0			
10352	11.2	04.5	07.3	09.6	0	0	+	+	0	142	13.4	079	11.4	0.56	0.61	370	34.9	09.2	14.1	06.2	17.7	29B3	0	0	0			
10353	13.3	04.5	08.3	08.4	0	0	0	+	0	148	09.5	093	06.4	0.63	0.51	579	22.1	12.0	12.5	07.1	18.3	30C4	0	0	0			
10360	11.3	06.2	07.4	09.4	+	0	+	+	+	153	11.1	089	07.1	0.55	0.55	047	24.0	09.1	13.0	05.7	14.0	29C8	3	0	1			
10372	12.7	04.0	08.4	08.6	0	0	+	0	0	164	08.2	010	04.5	0.71		109	18.9	12.5	07.1	07.8	10.4	28E5	0	0	0			
10374	15.4	08.5	10.9	09.8	0	0	0	+	0	212	10.0	099	08.0	0.47		913	21.0	15.0	10.4	10.4	15.5	29D7	9	7	7			
10376	14.6	06.8	11.4	10.5	+	0	+	+	0	239	19.1	007	06.9	0.37	0.50	701	20.5	14.7	12.7	08.2	15.8	29C4	0	0	0			
10379	12.2	06.1	08.2	11.0	0	0	0	+	0	191	03.9	011	07.0	0.40		042	13.0	09.5	11.0	06.4	13.0	30C5	0	0	0			
10380	11.5	09.1	00.3	08.0	0	0	0	+	0	150	11.3	081	08.0	0.40		076	25.0	10.2	10.1	07.0	00.4	28C9	0	0	0			
10381	10.0	05.0	06.8	10.3	0	0	0	+	0	100	07.4	070	05.7	0.47		500	25.6	09.6	10.4	05.5	16.4	28E7	0	0	0			
10382	12.1	07.4	08.6	11.6	+	0	+	+	0	176	08.9	076	07.1	0.43	0.51	439	21.8	10.7	11.2	07.0	15.7	30E7	0	0	0			
10383	12.5	09.6	08.0	11.1	0	0	0	+	0	157	07.4	085	08.8	0.74		592	08.1	11.4	10.2	07.0	20.0	30C2	0	0	0			
10385	13.7	04.4	08.0	09.0	0	0	0	+	0	182	00.5	079	06.1	0.50		200	40.0	09.3	11.0	05.0	13.9	28D2	0	0	0			
10387	11.1	05.1	09.0	07.7	0	0	0	+	0	190	10.3	064	08.0	0.44		350	25.5	12.4	12.3	07.4	16.7	28D3	0	0	0			
10388	11.0	04.5	07.8	07.7	0	0	+	+	0	160	11.9	081	08.0	0.40	0.55	891	30.1	10.3	14.6	07.8	16.7	29E7	0	0	0			
10389	11.3	07.0	07.7	09.0	0	0	+	0	0	157	10.0	081	08.0	0.52	0.71	900	32.0	10.0	11.0	06.0	13.0	29C3	1	0	0			
10390	12.0	04.1	09.7	08.0	0	0	+	+	0	178	10.3	079	09.1	0.70	0.46	681	27.7	10.0	11.1	07.4	08.4	29C9	2	0	0			
10391	11.5	06.4	08.2	12.5	0	0	0	+	0	151	09.5	082	08.0	0.55	0.00	380	22.7	09.2	16.6	05.3	19.4	29D5	0	0	0			
10392	11.0	06.4	08.2	13.7	0	0	0	+	0	179	13.0	082	06.1	0.47		427	22.0	08.5	12.2	05.5	14.3	29D4	0	0	0			
10393	12.5	06.4	09.1	11.0	0	0	+	+	0	159	10.0	081	09.0	0.54		474	21.9	10.9	12.0	07.6	13.1	29C2	1	0	0			
10397	12.9	05.9	09.0	09.0	+	0	+	+	0	204	17.0	078	12.1	0.54	0.20	604	20.4	14.6	11.4	07.4	10.9	30C8	0	0	0			
10398	11.8	05.1	08.6	11.5	0	0	0	+	0	151	19.3	076	10.3	0.60		410	35.4	11.5	10.6	07.3	10.5	30D6	0	0	0			

TUR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface roughness		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10344	0	0.92	1	1	0	0	3	1.70	0.11	1.30	0.10	1.0	0.06	6.34	0.46	7.06	0.37	2.57	0.16	5.95	0.40	2.33	0.25	
10345	0	0.61	4	5	3	0	5	2.20	0.10	1.40	0.10	1.10	0.10	7.70	0.40	7.70	0.20	2.20	0.20	8.80	0.70	3.10	0.30	
10346	7	0.11	8	9	9	5	5	1.83	0.13	1.49	0.10	0.99	0.04	7.61	0.53	7.55	0.39	2.52	0.19	6.49	0.61	2.43	0.31	
10351	0	0.78	2	2	5	5	7	2.44	0.13	1.43	0.09	0.98	0.04	7.04	0.34	7.66	0.43	2.28	0.25	6.52	0.47	2.57	0.24	
10352	0	0.80	2	2	3	4	7	2.10	0.21	1.14	0.12	0.93	0.07	5.70	0.76	6.23	0.58	2.06	0.25	5.95	0.62	1.80	0.26	
10353	0	0.78	5	3	3	1	7	1.90	0.14	1.38	0.11	0.97	0.06	7.25	0.46	8.02	0.48	2.28	0.21	7.13	0.46	2.04	0.18	
10368	0	0.69	2	2	3	3	7	2.32	0.17	1.47	0.09	1.0	0.09	7.42	0.35	7.78	0.50	2.16	0.26	6.86	0.37	2.51	0.14	
10372	0	0.62	5	5	5	1	5	2.22	0.15	1.30	0.09	0.99	0.03	5.45	0.39	6.58	0.62	2.24	0.26	4.93	0.34	2.02	0.10	
10374	5	0.73	3	5	5	0	5	2.15	0.11	1.37	0.09	1.01	0.06	8.05	0.35	9.42	0.42	2.51	0.21	8.21	0.98	2.73	0.26	
10376	0	0.69	5	7	8	1	3	2.26	0.14	1.19	0.06	1.04	0.06	7.25	0.27	8.95	0.53	2.13	0.13	7.77	0.48	2.69	0.29	
10379	0	0.56	4	3	5	5	5	2.14	0.19	1.24	0.11	0.90	0.04	7.52	0.35	7.90	0.56	2.40	0.26	6.26	0.48	2.29	0.20	
10380	0	0.71	2	3	7	1	5	2.66	0.10	1.31	0.09	0.95	0.05	7.93	0.44	8.05	0.51	2.19	0.23	6.61	0.50	1.94	0.07	
10381	0	0.78	5	3	5	1	3	2.24	0.23	1.23	0.09	0.97	0.05	6.70	0.76	7.69	0.09	2.16	0.25	5.57	0.82	2.07	0.20	
10382	0	0.74	4	5	5	2	7	1.9	0.2	1.5	0.1	1.3	0.1	7.0	0.2	7.7	0.4	2.6	0.2	8.2	0.5	3.3	0.2	
10383	0	0.73	4	5	3	5	7	2.37	0.10	1.51	0.06	1.0	0.03	7.56	0.34	7.80	0.43	2.15	0.23	7.62	0.91	2.51	0.19	
10385	0	0.89	5	5	3	3	5	2.11	0.15	1.39	0.10	1.00	0.05	7.69	0.35	8.45	0.53	2.67	0.14	7.78	0.60	2.39	0.34	
10387	0	0.61	5	7	7	5	5	2.01	0.30	1.46	0.16	1.0	0.05	7.70	0.47	8.00	0.41	2.81	0.14	7.0	0.47	2.18	0.29	
10388	0	0.91	1	2	4	3	7	2.16	0.11	1.11	0.07	0.97	0.05	7.45	0.27	7.45	0.25	2.15	0.17	6.40	0.34	2.06	0.07	
10389	0	0.53	2	2	6	2	5	2.37	0.13	1.24	0.26	1.82	0.04	7.07	0.54	7.00	0.41	2.36	0.10	6.94	0.39	2.81	0.85	
10390	0	0.81	2	2	5	3	5	2.60	0.27	1.36	0.14	1.1	0.05	6.46	0.69	8.9	0.48	2.40	0.20	7.60	0.54	2.20	0.30	
10391	0	0.61	5	3	3	1	5	2.17	0.14	1.43	0.10	0.99	0.03	8.09	0.29	6.63	0.45	2.35	0.33	7.23	0.53	2.03	0.09	
10392	0	0.72	4	5	5	1	3	2.24	0.29	1.26	0.10	0.99	0.09	6.78	0.34	6.61	0.26	2.10	0.14	6.21	0.35	2.0	0.15	
10393	0	0.70	2	1	5	3	3	2.41	0.11	1.27	0.07	0.98	0.04	6.74	0.30	7.06	0.51	2.60	0.17	6.63	0.37	2.33	0.23	
10397	0	0.66	7	7	7	1	3	2.16	0.13	1.24	0.05	1.0	0.05	7.26	0.39	7.91	0.79	2.70	0.26	7.34	0.67	2.94	0.31	
10398	0	0.70	4	5	3	0	5	2.00	0.20	1.24	0.15	0.91	0.11	5.2	0.56	7.1	0.28	2.2	0.32	5.9	0.27	2.2	0.32	

TUR accession number	Flower						Leaf		Compatibility and resistance						Notes	
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	Phytophthora palmivora	References	Crimpella perniciosa	References	Monilia roreni	References		Ceratocystis fimbriata
10344	7	3	10A4	0	30B4	7D7	+ P									
10345	3	3	9A3	3	30C4	106										
10346	3	0	11A4	7	30B4	9C7										
10351	7	3	9A4	0	30C6	6D7										
10352	3	0	10A3	0	30D4	8D7										
10353	3	3	10A3	3	30B4	9D7										
10360	3	3	8A2	0	30C5	7C7										
10372	3	7	10A3	0	30A3	7B5										TABLE WA 4
10374	0	0	11A3	3	30B4	8D6	+ 41,42,43	S 43					T 43			GOOD COMBINING ABIL
10376	0	0	10A2	0	30A4	7C6	0 P									
10379	3	0	1A2	0	29C4	5D7	0 44									
10380	7	7	9A2	0	30B5	7D7	0 44									
10381	7	3	9A2	0	30B4	9D7	0 44									
10382	0	0	8A3	0	29D5	7D7	0 44									
10383	7	0	10A4	0	30A3	9E8										
10385	0	5	9A3	0	30D5	5D5										
10387	3	0	9A2	0	30C5	6C4										IS PALMIVORA
10388	7	3	9A4	0	29D5	4D6	+ 41									
10389	3	7	9A3	0	30D4	7D7	+ 41									
10390	2	0	8A2	0	29B4	6C7										
10391	0	0	10A2	0	30C4	5D5	0 42	R 36	R 44				R 44			
10392	3	0	10A2	0	29C4	6C6	0 42	R 36	R 44				R 44			
10393	3	3	9A2	0	30C4	6C4										
10397	0	0	10A3	3	29C4	5C7										IMBIOUS
10398	3	3	1A2	0	30A6	6C6	0 41,43	T-R 1,43	S 43				T 43			GOOD COMBINING ABIL

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10399	B	56	14		POUND-7		PERU					
10400	G	26	15		POUND-12		PERU					
10401	V	57	12		POUND-12		PERU					
10402	H	47	5		PV-4		VENEZUELA	BARCELONETA	RIO CARATIGUO	2	FINCA PRIVADA	
10415	C	32	9	R-2		2R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10417	C	34	8	R-8		17R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10418	C	35	4	R-9		7R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10419	C	36	2	R-10		19R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10420	C	37	6	R-13		13R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10421	C	38	8	R-15		15R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10422	C	39	4	R-17		17R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10435	C	50	12	R-71		71R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10436	C	51	10	R-75		75R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10437	C	52	7	R-76		76R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10438	C	53	6	R-78		78R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10441	C	56	8	R-105		105R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10443	C	58	4	R-113		113R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10444	C	59	7	R-117		117R	MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10447	G	40	12	RB-37			BRASIL	RIO ACRE	ISLA AMAPA	2		
10448	G	41	13	RB-39			BRASIL	RIO ACRE	ISLA AMAPA	2		
10449	H	57	7				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10450	G	42	12	RB-41			BRASIL	RIO BRANCO	CHICO PEDRO	2		
10452	G	44	9	RB-46			BRASIL	RIO BRANCO	COL. GABINO VISORO	2		
10456	G	28	12		SANTA CLARA-3		COSTA RICA	ALAJUELA	SANTA CLARA	2		
10457	C	66	11		S.C-5		COLOMBIA	VALLE	PALMIRA			

TUR accession number	Pedigree	General				Production						Seed											
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed width/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV					
																			mean	CV	mean	CV	
10399		1979	07	20.4	1.17	6	54	1.73	06.8	1.17	07.0	0.67	42.0	20.5	0.78	0.058	22.9	05.5	0.55				
10400		1980	06	27.9	1.87	3	53	1.21	07.2	1.87	13.7	0.72	41.0	20.2	0.77	0.081	21.6	05.5	0.46				
10401		1979	07	24.3	1.05	7	55	1.43	09.9	1.05	12.2	0.74	39.1	22.4	0.71	0.070	22.0	06.1	0.45				
10402		1980	04	40.8	1.51	1	55	2.47	26.1	1.51	23.3	0.61	37.1	25.3	0.67	0.049	27.4	07.7	0.58				
10415		1980	04	17.5	1.73	6	44	2.61	12.5	1.73	10.8	0.66	32.9	28.0	0.75	0.058	24.9	05.6	0.59				
10417		1980	06	16.2	1.82	5	46	2.67	09.7	1.82	11.7	0.68	33.9	29.5	0.74	0.039	25.5	06.7	0.58				
10418		1980	07	31.2	1.67	3	40	2.53	05.3	1.57	09.7	0.62	30.0	24.0	0.75	0.044	24.5	05.2	0.60				
10419		1980	05	17.4	1.60	5	45	2.54	07.9	1.60	09.5	0.65	30.8	26.6	0.68	0.039	25.1	03.6	0.56				
10420		1980	06	20.5	1.55	7	41	2.49	12.8	1.55	09.1	0.62	31.5	28.3	0.77	0.053	22.9	06.1	0.59				
10421		1980	02	22.5	1.33	4	43	2.05	08.8	1.33	08.0	0.65	33.4	24.2	0.78	0.064	23.9	03.3	0.58				
10422		1980	07	35.5	0.9	3	46	1.37	10.0	0.9	13.5	0.50	33.5	25.4	0.73	0.056	23.1	08.2	0.58				
10435		1980	07	41.0	1.40	4	48	2.44	07.1	1.45	10.3	0.59	35.3	24.9	0.74	0.057	24.1	05.0	0.58				
10436		1980	02	19.2	1.47	5	48	2.38	08.2	1.47	11.8	0.62	35.5	29.6	0.74	0.046	24.1	05.0	0.56				
10437		1980	05	60.1	2.13	3	47	3.28	06.5	2.13	05.6	0.65	35.5	26.5	0.76	0.040	28.8	06.6	0.55				
10430		1980	04	37.5	1.29	3	43	2.05	15.1	1.29	13.0	0.64	34.5	17.7	0.82	0.060	24.0	17.7	0.57				
10441		1980	02	21.0	1.45	4	45	2.07	09.4	1.45	11.2	0.70	32.4	29.0	0.72	0.054	24.6	19.5	0.57				
10443		1980	05	16.5	1.64	3	46	2.5	11.5	1.64	10.2	0.66	33.9	20.6	0.80	0.049	23.8	06.7	0.58				
10444		1980	04	16.0	1.71	5	43	2.55	09.7	1.71	10.1	0.67	34.7	19.0	0.81	0.048	24.9	04.0	0.58				
10447		1979	05	21.9	1.1	5	48	1.2	08.5	1.1	08.2	0.65	30.0	19.5	0.79	0.074	23.8	11.8	0.51				
10448		1980	07	29.0	0.9	4	50	1.31	12.0	0.9	16.9	0.63	30.6	22.7	0.77	0.035	22.0	07.7	0.56				
10449		1980	05	41.9	1.65	7	40	1.22	25.1	1.65	27.0	0.53	33.9	19.5	0.77	0.087	20.7	08.7	0.50				
10450		1979	11	47.7	1.69	7	40	1.19	15.5	1.69	25.0	0.50	30.5	29.2	0.64	0.094	21.3	04.8	0.52				
10452		1979	11	34.4	1.59	6	51	1.25	16.2	1.59	16.4	0.74	31.4	24.5	0.62	0.131	20.8	05.5	0.52				
10456		1978	02	44.7	1.7	5	46	1.71	06.7	1.7	06.0	0.58	31.4	25.0	0.69	0.095	19.0	05.1	0.50				
10457		1980	06	27.2	1.37	8	40	2.14	12.8	1.37	14.8	0.69	26.0	20.0	0.67	0.045	24.8	05.6	0.54				

TUR accession number	Seed										Fruit																	
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour			Anthocyanin intensity in	
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	Ratio	Ratio	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	Intensity	in
10399	12.7	09.6	08.4	07.8	0	0	0	+	0	185	11.7	092	09.0	0.50	0.53	723	27.0	12.9	10.5	08.0	10.5	29C5	0	0	0			
10400	09.9	04.0	07.1	07.0	0	0	+	+	0	169	14.0	084	10.2	0.50	0.54	504	30.8	11.7	12.8	07.5	14.7	30C6	0	0	0			
10401	10.3	03.7	07.0	12.7	0	0	0	+	0	178	12.2	086	09.3	0.50	0.54	555	30.9	12.2	14.9	08.1	15.0	29E8	0	0	0			
10407	15.4	9.1	10.4	11.5	+	0	+	+	+	213	8.6	71	7.0	0.43	0.48	759	22.0	12.7	11.8	13.2	13.4	30C6	1	0	0			
10415	14.6	04.1	10.5	09.5	0	0	+	+	+	200	10.5	086	09.3	0.43	0.48	569	29.5	12.3	13.0	07.9	17.7	29B3	1	1	0			
10417	14.7	04.1	11.5	07.8	+	0	+	+	0	241	12.4	093	05.4	0.39	0.50	868	19.2	15.1	09.3	09.6	12.5	29C4	0	0	0			
10418	14.7	05.4	11.1	06.3	+	0	+	+	+	222	14.8	093	09.1	0.37	0.48	604	30.2	11.6	14.7	08.2	20.5	29B3	1	0	0			
10419	14.0	04.3	10.6	06.6	+	0	+	+	+	231	13.2	093	05.2	0.40	0.52	793	19.5	14.1	13.5	08.6	11.6	29B3	0	0	0			
10420	13.4	06.0	10.0	13.0	+	0	+	+	0	221	14.5	084	10.7	0.38	0.54	598	33.8	12.6	17.5	07.2	13.9	29C4	0	0	0			
10421	13.9	05.7	10.6	10.4	+	0	+	+	0	214	14.0	079	10.1	0.37	0.49	525	30.3	11.8	14.4	06.3	20.6	29C4	2	0	0			
10422	13.4	05.2	11.0	08.2	0	0	+	0	0	221	11.0	092	12.0	0.37	0.49	599	32.3	13.3	14.3	07.9	13.9	29C4	0	0	0			
10425	14.0	05.0	10.5	10.5	0	0	+	+	+	206	12.1	086	08.1	0.42	0.50	625	27.2	15.0	12.5	08.1	11.1	29C4	3	1	1			
10436	13.6	04.4	10.9	06.4	+	0	+	+	0	238	10.1	090	07.6	0.38	0.49	776	24.1	13.8	10.1	08.0	16.2	29B3	0	0	0			
10437	15.7	06.4	11.0	08.2	+	0	+	+	0	208	09.6	103	07.8	0.50	0.50	896	21.3	16.0	11.2	10.8	16.7	29E8	0	0	0			
10438	13.7	5.8	9.3	9.7	+	0	+	+	+	185	14.4	86	11.6	0.46	0.49	579	33.4	13.7	16.1	8.1	16.0	29B3	0	0	0			
10441	14.1	07.1	10.5	07.6	+	0	+	+	+	195	12.7	085	09.4	0.43		683	29.0	12.1	09.9	08.5	14.2	29C4	0	0	0			
10443	13.9	04.3	11.0	07.3	+	0	+	+	+	233	10.7	087	10.3	0.37	0.51	750	27.9	13.3	13.5	07.9	17.7	29C4	0	0	0			
10444	14.5	06.9	10.9	07.3	0	0	+	+	+	212	11.8	090	07.8	0.42	0.43	729	24.4	14.1	13.5	08.8	15.9	29D8	9	8	7			
10447	12.1	16.6	07.1	09.7	0	0	0	+	0	151	10.7	089	07.9	0.59		514	25.7	11.5	12.6	07.4	14.0	30C4	0	0	0			
10448	10.9	08.2	07.8	10.2	+	0	+	0	0	158	10.7	085	09.9	0.54	0.51	954	31.1	11.4	16.7	07.2	15.3	30D5	0	0	0			
10449	10.3	06.8	07.6	09.2	0	0	+	0	+	177	09.0	077	09.1	0.44	0.52	425	21.2	12.4	09.7	08.1	11.1	29D8	9	9	7			
10450	11.0	07.0	07.8	11.1	0	0	+	0	0	168	10.1	072	07.5	0.43	0.49	326	22.3	10.3	13.3	05.3	16.7	30D6	0	0	0			
10452	11.0	05.0	07.8	10.4	0	0	0	+	0	159	10.8	073	07.8	0.46	0.47	312	31.4	09.8	17.8	05.4	23.7	30E8	0	0	0			
10456	11.5	05.8	07.8	07.8	0	0	+	0	0	136	10.7	072	08.5	0.53	0.49	336	28.1	09.6	10.6	06.1	16.6	30C4	0	0	0			
10457	13.3	06.8	09.9	09.1	0	+	+	+	+	191	11.3	084	06.2	0.44	0.50	599	25.4	13.9	15.8	08.4	19.0	30E8	9	8	2			

TUR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10439	0	0.63	3	3	4	0	1	2.42	0.17	1.49	0.07	1.01	0.04	6.02	0.42	7.83	0.42	2.62	0.14	6.91	0.43	2.41	0.38	
10440	0	0.69	3	3	3	1	5	2.96	0.16	1.13	0.09	0.95	0.06	7.16	0.22	8.44	0.64	2.19	0.23	6.39	0.18	2.05	0.22	
10441	0	0.74	4	5	1	1	5	2.71	0.07	1.38	0.07	0.98	0.09	7.39	0.43	8.32	0.77	2.15	0.17	6.87	0.53	2.18	0.20	
10442	0	0.70	3	3	5	2	5	2.10	0.17	1.01	0.00	1.00	0.01	7.30	0.18	8.62	0.47	2.39	0.18	7.53	0.37	3.03	0.34	
10445	0	0.78	3	5	2	0	5	2.24	0.18	1.25	0.07	1.02	0.05	7.77	0.55	8.62	0.42	2.33	0.22	8.41	0.54	2.61	0.32	
10447	0	0.79	4	6	8	3	5	2.23	0.19	1.23	0.11	0.98	0.04	7.95	0.42	9.47	0.36	2.33	0.19	8.21	0.44	2.65	0.25	
10448	0	0.76	2	4	5	1	5	2.32	0.19	1.49	0.07	1.03	0.05	6.92	0.77	8.88	0.43	2.67	0.23	8.10	0.81	3.04	0.22	
10449	0	0.69	5	5	7	4	5	2.0	0.2	1.2	0.1	0.9	0.1	7.5	0.5	9.0	0.7	2.1	0.2	8.0	0.3	3.0	0.2	
10420	0	0.67	3	5	7	3	7	2.44	0.13	1.14	0.13	0.94	0.07	7.65	0.39	8.97	0.30	2.39	0.39	7.77	0.45	2.65	0.30	
10421	0	0.79	3	5	8	5	5	2.41	0.14	1.18	0.09	0.96	0.07	7.37	0.49	8.91	0.40	2.22	0.25	8.02	0.67	2.75	0.23	
10422	0	0.88	3	7	8	3	5	2.05	0.39	1.11	0.0	0.93	0.04	7.62	0.34	9.15	0.40	2.23	0.27	7.70	0.59	2.73	0.27	
10435	0	0.77	3	4	6	0	1	2.27	0.18	1.12	0.10	0.90	0.04	7.64	0.40	9.55	0.37	2.25	0.25	8.10	0.55	2.71	0.24	
10436	0	0.71	6	7	9	1	5	2.25	0.19	1.20	0.07	0.99	0.06	7.67	0.44	9.13	0.50	2.34	0.35	8.71	0.45	2.91	0.14	
10437	0	0.73	3	3	5	0	5	2.0	0.2	1.4	0.1	1.1	0.1	8.4	0.6	9.6	0.5	2.5	0.3	8.8	0.9	3.5	0.4	
10438	0	0.56	3	5	5	0	7	2.29	0.19	1.26	0.12	1.03	0.05	7.57	0.44	8.13	0.50	2.21	0.19	7.07	0.52	2.47	0.30	
10441	0	0.74	5	5	7	1	2	2.31	0.19	1.42	0.10	0.99	0.03	7.79	0.58	8.11	0.50	2.51	0.23	8.01	0.25	2.82	0.36	
10443	0	0.71	3	5	7	3	5	2.16	0.20	1.22	0.12	0.97	0.07	7.81	0.37	9.81	0.34	2.34	0.22	8.60	0.51	2.84	0.17	
10444	3	0.70	3	5	6	0	2	2.36	0.16	1.28	0.08	0.98	0.04	7.38	0.39	8.98	0.46	2.28	0.21	8.01	0.37	2.51	0.20	
10447	0	0.65	4	3	4	1	7	1.97	0.22	1.45	0.13	0.97	0.07	7.42	0.31	8.11	0.72	2.63	0.41	7.21	0.46	2.46	0.23	
10448	0	0.80	3	3	3	1	5	1.20	0.33	1.50	0.23	1.07	0.05	7.39	0.32	7.38	0.19	2.53	0.20	6.37	0.59	2.59	0.18	
10449	5	0.73	3	4	5	2	5	1.7	0.2	2.2	0.1	1.5	0.1	9.0	0.1	8.7	0.3	2.3	0.4	9.4	0.5	2.4	0.3	
10450	0	0.71	4	5	5	1	5	1.74	0.16	1.31	0.10	1.01	0.03	6.29	0.37	6.51	0.23	2.05	0.10	5.94	0.39	1.96	0.15	
10452	0	0.72	4	5	5	0	5	1.85	0.13	1.43	0.09	1.03	0.05	6.81	0.24	6.32	0.33	2.04	0.15	6.10	0.38	2.29	0.24	
10456	0	0.65	3	3	3	0	7	1.95	0.18	1.33	0.11	0.93	0.05	7.35	0.32	9.04	0.38	2.25	0.21	7.63	0.70	2.60	0.33	
10457	0	0.83	4	4	5	0	3	2.08	0.09	1.12	0.09	0.92	0.05	7.05	0.32	8.40	0.43	2.14	0.16	7.14	0.48	2.64	0.32	

TDR accession number	Flower					Leaf		Compatibility and resistance						Notes			
	Anthocyanin in ligula	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crinipellis perniciosa</i>	References	<i>Monilia roreni</i>		References	<i>Ceratocystis fimbriata</i>	References
10397	7	7	9A2	0	29B5	7D8	0	41									GOOD COMBINING ABIL.
10400	3	3	10A2	0	29C5	8D5											
10401	7	3	8A3	0	30B5	7D8	0	41, 43	5	43				1-0	1	43, 44	GOOD COMBINING ABIL.
10407	3	0	9A4	0	30D5	8C6											
10415	0	3	11A3	0	29A4	5D7	0	40									
10417	0	0	10A3	0	30A4	7C6											
10418	0	0	9A4	0	30E5	8D7											
10419	0	0	10A4	0	30B4	8D7	+	41, 42, 43	5	43				5	43		GOOD COMBINING ABIL.
10420	3	0	11A3	3	30B4	7E7		5	43					4	43		
10421	3	0	10A3	0	30C4	5D7											
10422	0	0	11A2	0	30C4	6D6											
10435	0	0	11A3	3	30B4	4D6											
10436	0	0	11A3	0	30B5	7B4											
10437	3	0	9A3	0	30D6	4D7											
10438	0	0	10A3	0	30C4	4D7											
10441	0	0	11A4	0	30A4	7D7											
10443	0	0	10A3	0	30A3	6C7											
10444	0	0	11A3	0	30A3	10D8											
10447	7	7	9A4	0	29C5	7D7											
10448	3	7	11B5	0	30C4	8D8											
10449	7	0	9A5	7	30B5	9D8											
10450	7	0	10A4	0	30B4	6D7											
10452	7	0	9A2	0	30C5	6D7											
10456	3	7	10A4	3	30C4	8D8											
10457	3	0	10A4	3	30C4	9E7	+	22, 44									

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10458	C	67	10	S.C-6			COLOMBIA	VALLE	PALMIRA			
10464	G	27	11	SCA-6	EET-11		ECUADOR			2	HACIENDA SCAVINA	
10465	B	8	8	SCA-9	EET-109		ECUADOR			2	HACIENDA SCAVINA	
10466	B	44	14	SCA-12	EET-110		ECUADOR			2	HACIENDA SCAVINA	
10467	B	14	11	SCR-4			COSTA RICA		SAN CRISTOBAL			
10468	C	79	12	SCR-5			COSTA RICA		SAN CRISTOBAL			
10469	A	3	5	SGU-60			GUATEMALA					2
10471	A	1	11	SGU-3			GUATEMALA					2
10472	A	2	7	SGU-4			GUATEMALA					2
10473	A	4	12	SGU-69			GUATEMALA					2
10474	H	1	13	SGU-71	S-0071		GUATEMALA					2
10475	B	19	12	SGU-82	S-0082		GUATEMALA					2
10477	A	7	9				COSTA RICA	CARTAGO	LUPRIALBA	3	CATIL	2
10478	G	18	15	SIAL-8	SIAL-008		BRASIL	BAHIA	SUR DE BAHIA	2		
10479	B	18	8	SIAL-42			BRASIL	BAHIA	SUR DE BAHIA	2		
10480	B	17	6	SIAL-44			BRASIL	BAHIA	SUR DE BAHIA	2		
10481	H	18	10	SIAL-56			BRASIL	BAHIA	SUR DE BAHIA	2		
10482	H	36	4	SIAL-70			BRASIL	BAHIA	TERUBUA - JUCARI	2	HACIENDA MARIPI DA	
10483	B	54	14	SIAL-93			BRASIL	BAHIA	TERUBUA - JUCARI	2	HACIENDA MARIPI DA	
10484	H	37	10	SIAL-123			BRASIL	BAHIA	SUR DE BAHIA	2		
10486	H	38	6	SIAL-325			BRASIL	BAHIA	BULPALEMA	2	HACIENDA BAMI EN	
10487	B	47	14	SIAL-407			BRASIL	BAHIA	SUR DE BAHIA	2		
10489	B	1	1	STC-1			BRASIL	BAHIA	ORUCUCA	2	ESTAC. EXP. URUCUCA	
10489	B	2	2	STC-1			BRASIL	BAHIA	ORUCUCA	2	ESTAC. EXP. URUCUCA	
10490	B	55	9	STC-2			BRASIL	BAHIA	ORUCUCA	3	ESTAC. EXP. URUCUCA	

TUR accession number	Pedigree	General			Production						Seed									
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number	Ratio number of seeds/fruit weight	Seed length in mm		Ratio seed weight/seed length
								mean	CV	mean	CV	mean	CV	mean	CV			mean	CV	
10458		1980	07	41.0	1.35	7	50	2.16	09.6	1.35	11.3	0.63	33.0	23.0	0.66	0.049	24.8	05.2	0.56	
10459		1980	10	32.9	.75	2	56	1.19	08.9	.75	10.6	0.63	40.3	29.0	0.72	0.086	20.2	05.4	0.50	
10465		1979	02	34.0	.99	7	53	1.44	08.7	.99	06.1	0.69	29.5	32.2	0.56	0.066	21.2	04.7	0.50	
10466		1979	04	44.0	.99	3	53	1.03	11.9	.59	19.9	0.57	30.3	31.3	0.72	0.081	21.6	07.5	0.49	
10467		1979	03	15.9	2.16	7	38	3.38	10.7	2.16	11.7	0.64	29.1	21.3	0.77	0.034	29.5	05.9	0.59	
10468		1980	07	21.7	1.25	5	45	1.85	19.8	1.25	17.5	0.68	36.7	18.0	0.82	0.045	26.5	09.0	0.50	
10469	MATINA X CRIOLLO	1980	05	22.5	1.31	7	44	2.05	16.7	1.31	14.0	0.71	34.3	20.7	0.70	0.048	24.9	06.0	0.57	
10471	MATINA X CRIOLLO	1980	05	25.7	1.06	7	44	1.62	03.3	1.06	05.0	0.65	36.4	15.7	0.65	0.075	23.8	03.9	0.99	
10472	MATINA X CRIOLLO	1980	04	35.6	1.31	3	47	2.32	10.7	1.31	16.0	0.56	36.7	21.0	0.70	0.056	24.5	05.7	0.51	
10473	MATINA X CRIOLLO	1980	05	27.9	1.02	6	43	1.73	12.0	1.02	16.3	0.59	35.1	16.5	0.82	0.110	20.9	04.8	0.58	
10474	MATINA X CRIOLLO	1979	02	38.0	.07	5	40	1.39	07.2	.69	05.2	0.64	32.7	23.7	0.75	0.081	24.7	05.2	0.96	
10475	MATINA X CRIOLLO	1978	07	24.8	1.16	7	44	1.81	14.4	1.16	13.7	0.64	34.7	17.9	0.79	0.063	24.4	05.3	0.53	
10477	MATINA X CRIOLLO	1980	07	20.6	1.41	1	42	2.31	08.0	1.41	09.9	0.61	34.3	12.5	0.82	0.057	25.0	04.8	0.56	
10478		1978	07	32.6	.87	6	47	1.43	05.9	.87	06.7	0.61	35.1	23.9	0.75	0.096	21.9	06.4	0.53	
10479		1979	02	26.0	1.27	5	44	1.01	06.4	1.27	00.4	0.68	30.1	26.0	0.73	0.061	24.3	05.7	0.52	
10480		1979	07	25.9	7.18	2	47	1.85	06.8	1.16	10.9	0.82	34.0	27.9	0.72	0.055	25.3	07.2	0.49	
10481		1979	07	19.5	1.38	2	46	2.17	13.2	1.38	14.0	0.63	37.1	14.5	0.81	0.055	24.7	08.9	0.53	
10482		1979	10	25.3	1.07	3	49	1.65	08.9	1.07	10.6	0.65	37.0	16.7	0.76	0.077	23.2	07.3	0.54	
10483		1979	01	30.8	.90	7	45	1.07	13.0	.90	10.9	0.66	33.1	25.9	0.74	0.050	23.0	06.3	0.50	
10484		1979	10	24.3	1.07	3	50	1.51	11.0	1.07	10.2	0.70	30.6	20.4	0.73	0.073	23.0	05.1	0.54	
10486		1979	06	29.8	.96	3	48	1.03	11.5	.96	11.5	0.67	35.0	23.4	0.73	0.077	23.8	06.5	0.47	
10487		1979	01	22.6	1.32	7	50	2.07	06.6	1.32	06.2	0.64	33.5	30.0	0.67	0.070	26.1	05.4	0.51	
10490		1979	02	31.9	.79	4	47	1.98	12.0	.79	10.7	0.61	39.0	12.2	0.85	0.090	23.7	05.1	0.47	
10489		1979	04	31.7	.81	2	50	1.2	16.9	.81	17.5	0.67	37.1	16.2	0.78	0.074	23.6	06.6	0.49	
10490		1979	02	30.7	.91	5	46	1.30	10.1	.91	13.2	0.66	35.7	21.0	0.70	0.084	23.5	05.1	0.48	

TUR accession number	Seed										Fruit																
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in	
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	Ratio	Ratio	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	intensity in
10450	13.8	05.1	09.8	10.2	+	0	+	0	+	193	14.0	090	08.9	0.47	0.51	674	28.3	13.6	11.8	08.2	13.4	29B3	8	7	5		
10454	10.2	03.9	07.9	06.3	0	0	+	0	0	180	10.6	074	06.5	0.41	0.45	470	21.7	11.1	10.8	06.6	12.1	29D7	0	0	0		
10465	12.4	04.0	08.3	09.6	0	0	0	+	0	163	09.2	083	07.2	0.51		443	23.7	11.8	07.6	07.6	11.8	29D6	0	0	0		
10466	10.8	05.5	07.0	11.6	0	0	0	+	0	171	11.1	088	10.0	0.49	0.43	477	25.4	11.6	14.0	06.8	17.6	29D5	0	0	0		
10467	17.3	06.0	11.0	08.1	0	0	+	0	0	182	11.0	103	06.4	0.57		850	22.4	14.7	10.9	10.8	14.4	29B2	3	0	0		
10468	13.3	07.5	08.4	08.3	0	0	0	+	0	196	12.9	091	10.8	0.46	0.47	813	30.5	14.9	12.7	14.9	16.5	29C4	0	0	0		
10469	14.1	08.5	10.0	09.3	0	0	+	+	+	210	13.1	088	10.0	0.42		728	18.2	14.2	16.2	08.6	15.1	29B3	0	0	0		
10471	11.6	03.6	07.7	06.5	0	0	+	0	0	105	09.0	089	05.9	0.54	0.57	480	18.2	10.7	13.7	06.7	15.4	29D5	0	0	0		
10472	12.4	5.6	9.6	7.3	0	0	+	0	+	219	13.4	094	6.8	0.38	0.48	656	19.7	10.8	12.0	6.4	17.2	29C4	3	3	0		
10473	13.2	04.5	08.1	06.2	0	0	+	0	0	145	06.2	075	05.3	0.52	0.52	331	16.9	08.2	12.2	05.1	13.7	29E8	0	0	0		
10474	11.6	04.2	06.5	04.0	0	0	0	+	0	113	07.0	083	04.6	0.73		405	10.0	09.4	10.0	06.8	12.0	29B3	0	0	0		
10475	13.0	06.1	08.7	08.9	0	0	+	0	0	174	09.3	084	06.3	0.59		753	26.7	13.0	10.9	10.4	12.5	30B2	0	0	0		
10477	14.0	05.7	10.1	09.9	+	0	+	+	+	191	11.6	084	09.5	0.44	0.50	601	24.0	12.5	12.0	08.2	13.4	29C4	8	5	5		
10478	11.7	07.3			0	0	0	+	0	143	08.7	077	09.2	0.54		362	25.1	08.6	08.6	06.3	07.6	30E6	0	0	0		
10479	12.6	04.7	08.5	08.0	0	0	0	+	0	137	11.6	091	08.2	0.66		529	20.2	12.5	10.5	09.1	14.3	20B4	0	0	0		
10480	12.5	05.1	08.5	07.7	0	0	+	0	0	164	12.0	093	07.0	0.57	0.54	632	29.6	11.7	12.1	07.6	14.0	29B4	0	0	0		
10481	13.1	07.6	09.3	10.7	0	0	0	+	0	176	14.8	093	10.7	0.53	0.54	673	32.9	12.7	14.2	07.9	11.4	30B4	3	0	0		
10482	12.5	06.4	07.8	11.5	0	0	0	+	0	148	12.2	096	09.4	0.65	0.50	481	33.5	10.9	18.3	06.8	16.2	29D5	0	0	0		
10483	11.8	04.2	08.1	11.1	0	0	+	0	0	132	10.2	091	11.0	0.69		404	20.2	10.1	15.6	06.7	12.4	29C3	0	0	0		
10484	12.9	04.0	07.7	09.3	0	0	0	+	0	152	10.6	090	07.4	0.59	0.52	562	20.8	09.9	11.8	06.6	14.6	30C4	0	0	0		
10486	11.2	04.8	07.8	11.9	0	0	0	+	0	146	10.2	085	06.0	0.59		452	24.5	10.0	11.9	06.9	14.6	29D7	0	0	0		
10487	13.4	05.1	08.3	04.3	0	0	0	+	0	126	08.9	095	10.3	0.75		482	19.3	09.2	10.2	06.3	13.7	29B3	0	0	0		
10488	11.1	04.7	06.6	07.5	0	0	+	0	0	122	08.0	086	06.0	0.70		404	20.1	09.4	11.1	06.9	13.4	29B3	0	0	0		
10489	11.0	03.3	07.0	05.5	0	0	0	+	0	120	08.4	091	06.4	0.71	0.54	528	17.6	10.2	12.5	07.4	13.5	29C3	0	0	0		
10490	11.2	03.6	07.4	06.3	0	0	0	+	0	131	11.2	087	08.0	0.66		423	22.9	09.8	17.3	07.0	17.1	28B3	0	0	0		

TUIR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10450	4	0.68	4	3	6	2	5	2.04	0.07	1.13	0.14	0.56	0.05	7.55	0.34	0.60	0.41	2.33	0.27	7.43	0.57	2.90	0.26	
10454	0	0.81	5	3	5	0	7	2.33	0.18	1.54	0.05	1.03	0.05	2.88	0.30	8.78	0.54	2.30	0.26	7.45	0.53	2.57	0.25	
10465	0	0.70	3	3	5	3	7	2.39	0.13	1.33	0.10	1.01	0.43	5.04	0.46	7.36	0.44	2.56	0.29	6.44	0.26	2.30	0.20	
10466	0	0.70	5	5	5	1	7	2.47	0.12	1.45	0.12	1.01	0.09	2.58	0.86	3.27	0.60	2.38	0.28	7.31	0.68	2.60	0.31	
10467	0	0.84	2	3	5	0	5	2.36	0.10	1.36	0.12	0.99	0.04	8.52	0.50	9.94	0.45	2.35	0.24	8.93	0.79	2.95	0.25	
10468	0	0.81	4	2	4	1	7	1.84	0.33	1.24	0.09	0.99	0.04	7.47	0.46	8.57	0.45	2.16	0.19	7.97	0.60	2.33	0.33	
10469	0	0.72	3	3	7	4	5	2.49	0.12	1.40	0.10	1.02	0.09	8.21	0.29	9.00	0.50	2.56	0.24	8.01	0.46	2.05	0.29	
10471	0	0.87	2	2	3	2	7	1.35	0.14	1.41	0.06	0.99	0.03	7.53	0.33	3.92	0.52	2.25	0.24	6.33	0.29	1.60	0.13	
10472	0	0.77	2	6	6	5	7	2.16	0.15	1.34	0.08	1.00	0.01	7.41	0.33	8.97	0.51	2.29	0.27	7.30	0.40	2.09	0.22	
10473	0	0.59	2	5	3	6	7	1.69	0.07	1.50	0.08	0.98	0.08	7.66	0.30	8.24	0.46	2.25	0.23	6.96	0.30	1.93	0.09	
10474	0	0.88	2	0	2	0	7	2.47	0.14	1.39	0.13	1.0	0.07	7.31	0.30	0.27	0.44	2.22	0.22	7.07	0.02	2.11	0.24	
10475	0	0.81	2	3	3	0	3	2.26	0.11	1.36	0.07	0.98	0.05	7.90	0.28	9.51	0.31	2.00	0.13	0.36	0.45	2.20	0.21	
10477	2	0.81	2	5	7	2	7	2.26	0.10	1.30	0.14	0.91	0.06	7.10	0.65	0.18	0.65	2.26	0.30	7.51	0.47	2.37	0.37	
10470	0	0.82	3	2	3	1	3	1.91	0.11	1.44	0.10	0.98	0.07	7.01	0.42	7.63	0.50	2.33	0.19	7.31	0.51	1.86	0.40	
10479	0	0.78	4	2	2	0	5	2.08	0.15	1.35	0.00	1.01	0.03	8.13	0.40	9.28	0.50	2.36	0.26	7.99	0.50	2.0	0.12	
10480	0	0.91	2	2	5	1	7	2.31	0.27	1.46	0.07	0.99	0.03	7.26	0.32	7.45	0.40	2.09	0.26	2.03	0.87	2.32	0.11	
10481	0	0.86	4	3	3	1	7	2.06	0.07	1.52	0.10	0.96	0.05	7.98	0.32	0.23	0.73	2.57	0.27	7.95	0.47	2.59	0.19	
10482	0	0.91	1	0	1	1	7	2.0	0.2	1.8	0.2	1.1	0.1	8.1	0.4	0.7	0.4	2.1	0.2	7.6	0.9	2.3	0.2	
10483	0	0.90	2	2	3	0	3	2.36	0.10	1.47	0.07	1.03	0.05	7.80	0.50	0.99	0.43	2.11	0.25	7.19	0.44	2.18	0.25	
10484	0	0.87	2	2	3	1	7	2.0	0.3	1.8	0.2	1.0	0.1	8.0	0.4	0.7	0.4	2.2	0.4	2.5	0.4	2.3	0.3	
10486	0	0.85	2	2	5	3	7	2.15	0.14	1.44	0.08	0.92	0.08	6.94	0.49	0.45	0.53	2.35	0.21	6.05	0.55	1.91	0.21	
10487	0	0.83	3	3	1	0	5	2.32	0.20	1.45	0.09	1.01	0.03	7.72	0.46	8.65	0.59	2.37	0.25	7.00	0.74	2.42	0.26	
10488	0	0.88	2	2	1	0	7	2.30	0.22	1.40	0.08	1.0	0	6.65	0.24	0.55	0.42	2.29	0.26	7.00	0.38	2.27	0.16	
10489	0	0.97	2	2	1	0	7	2.37	0.12	1.48	0.05	1.05	0.00	7.20	0.24	8.65	0.40	2.33	0.32	2.13	0.51	2.16	0.21	
10490	0	0.96	2	1	3	1	5	2.32	0.11	1.52	0.08	1.02	0.04	7.67	0.41	9.15	0.56	2.35	0.20	7.09	0.52	2.21	0.19	

TUR accession number	Flower					Leaf		Compatibility and resistance						Notes			
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crimpeilis perniciosa</i>	References	<i>Monilia rostris</i>		References	<i>Ceratocystis fimbriata</i>	References
10458	0	0	11A4	3	30C4	9D8	+	22,44									
10464	3	0	10A3	0	29B5	8D7	0	41,42	R	36,37,41	R	37,41					GOOD COMBINING ABIL
10465	3	3	9A2	0	30B4	7D7											NA-49 OR SC-49?
10466	0	0	10A3	0	30C5	9C5	0	41,42,43	I-P	L,43	I-K	1,27,41	0	42	I	43	GOOD COMBINING ABIL
10467	7	3	10A3	0	30C4	7D5											
10468	3	3	12A2	0	29E7	8C7											
10469	0	0	9A3	0	30C5	9E7											
10471	3	0	11A6	3	30B4	7C6											
10472	0	3	9A4	3	30B5	7C6											
10473	3	7	9A4	3	30B4	7C7											MAYBE SGU-63
10474	7	0	9A2	0	30B5	9C4											
10475	0	0	11A5	0	29B4	8D8	+	P									
10477	0	0	10A4	0	30C5	9D7											
10478	7	0	11A4	3	29B5	8D8											
10479	3	3	10A2	0	30A3	9C5											
10480	3	3	10A2	0	30A4	7D4											
10481	3	3	11A4	3	30B4	8D7											
10482	3	3	10A4	0	29B4	7D7	+	41,42									
10483	3	3	9A2	0	30B4	8D6											
10484	3	3	9A3	3	30C5	8D8	+	41,42									
10486	7	3	9A3	0	30C4	8D7	+	41,42									
10487	3	3	10A3	0	30C4	7D5	+	43	S	43							
10488	7	3	10A4	0	30C4	5D6	+	42					V	42			
10489	7	3	9A4	0	30B4	8D5											
10490	3	3	10A3	0	30C4	5C4											

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10491	B	62	12	SIC-6			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	
10492	B	4	8	SIC-7			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	
10493	B	3	2	SIC-28			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	
10494	H	40	6	SIC-256			BRASIL	BAHIA	ITABUNA	3	INSTITUTO DE CACAO	1
10495	G	29	5	SIC-329			BRASIL	BAHIA	ITABUNA	3	INSTITUTO DE CACAO	1
10496	H	41	8	SIC-433			BRASIL	BAHIA	ITABUNA	3	INSTITUTO DE CACAO	1
10497	H	43	8	SIC-802			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	1
10498	D	28	6	SIC-886			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	2
10499	G	30	13	SIC-813			BRASIL	BAHIA	URUCUCA	3	ESTAC. EXP. URUCUCA	2
10504	H	22	14	SNK-12			CABERON			3	ESTACION N'KAERVONE	
10506	B	23	9	SPA-5			COLOMBIA	VALLE	PALMIRA			
10507	B	26	12	SPA-7			COLOMBIA	VALLE	PALMIRA			
10508	B	25	13	SPA-9			COLOMBIA	VALLE	PALMIRA			
10509	B	21	10	SPA-10			COLOMBIA	VALLE	PALMIRA			
10510	B	19	11	SPA-11			COLOMBIA	VALLE	PALMIRA			
10511	B	20	11	SPA-12			COLOMBIA	VALLE	PALMIRA			
10512	C	73	13	SPA-17	PA-17		COLOMBIA	VALLE	PALMIRA			
10517	H	66	7	T.J.-1			HONDURAS	TAUJICA				
10524	C	77	11	TSH-792	TSH-792		TRINIDAD					
10525	H	67	7	TSH-565			TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	2
10526	C	76	9	TSH-565			TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	2
10527	B	36	9	TSHA-644	TS HA-644		TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	2
10532	D	37	10	UF-9			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10533	D	22	9	UF-10			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10534	D	23	7	UF-11			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	

TJR accession number	Pedigree	General			Production				Seed													
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed width/seed length
								mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV			
10491		1979	01	30.0	.91	7	51	1.43	13.4	.91	17.1	0.63	36.8	23.8	0.72	0.066	23.6	06.1	0.47			
10492		1979	02	37.3	.81	7	46	1.28	08.8	.81	07.3	0.63	33.2	27.4	0.72	0.080	22.8	05.9	0.48			
10493		1979	02	13.5	2.07	2	07	3.35	09.9	2.07	11.2	0.62	35.6	25.3	0.76	0.043	20.7	05.2	0.54			
10494	SIC	1979	08	27.9	.97	1	03	1.52	08.8	.97	17.1	0.64	36.8	23.1	0.78	0.095	22.4	04.9	0.53			
10495		1979	06	28.5	.98	5	49	1.51	05.1	.96	08.7	0.63	36.5	24.7	0.74	0.082	23.5	05.8	0.52			
10496		1979	10	22.3	1.13	5	51	1.71	08.6	1.13	09.2	0.66	39.8	31.9	0.78	0.076	24.8	05.6	0.50			
10497	LATORON	1979	03	25.8	.92	1	52	1.42	10.2	.92	13.8	0.64	42.0	37.6	0.81	0.087	23.5	06.6	0.39			
10498	LATORON	1979	08	26.8	1.19	2	48	1.9	14.1	1.19	15.9	0.62	31.4	29.4	0.65	0.059	25.3	04.5	0.51			
10499	Campana	1979	06	21.5	1.16	6	48	1.85	10.8	1.16	12.6	0.63	33.9	25.5	0.71	0.069	24.0	05.6	0.53			
10500		1979	07	20.5	1.65	2	08	2.57	09.3	1.65	12.5	0.64	29.6	30.1	0.62	0.029	27.4	06.7	0.50			
10501		1979	03	23.3	1.39	2	09	2.19	13.0	1.39	16.1	0.63	30.9	33.3	0.63	0.036	25.2	07.3	0.53			
10502		1979	01	19.1	1.74	0	30	3.85	08.5	1.24	10.8	0.67	42.3	14.6	0.65	0.036	24.5	06.9	0.56			
10503		1979	07	35.2	.93	5	48	1.29	10.9	.93	10.7	0.73	30.4	34.9	0.63	0.057	22.4	03.1	0.54			
10504		1979	04	23.4	1.07	7	56	1.51	22.9	1.07	21.5	0.71	39.8	29.4	0.71	0.062	23.6	06.7	0.50			
10510		1979	01	24.1	1.07	6	09	1.51	06.3	1.07	05.9	0.71	30.9	33.1	0.66	0.050	23.1	03.8	0.52			
10511		1979	03	17.9	1.29	2	51	1.92	08.3	1.29	00.2	0.67	43.1	16.3	0.65	0.043	25.1	06.7	0.49			
10512		1980	07	30.6	.93	5	46	1.22	08.7	.93	00.0	0.68	34.7	21.9	0.75	0.065	21.5	04.6	0.56			
10513		1980	04	30.1	.97		45	1.67	22.0	.97	25.3	0.58	32.3	23.2	0.72	0.053	25.0	10.8	0.48			
10514		1980	07	22.7	1.01	0	47	1.57	09.8	1.01	11.2	0.64	42.7	32.8	0.64	0.077	23.9	05.0	0.52			
10515	SIRAC & IMCO	1980	05	29.7	1.1	6	51	1.72	16.1	1.1	21.2	0.64	40.1	25.2	0.79	0.038	25.1	06.8	0.46			
10516		1980	11	20.0	1.16	3	53	1.93	10.2	1.16	14.4	0.60	41.5	21.0	0.71	0.059	25.3	04.7	0.49			
10517		1980	02	17.5	1.11	5	54	1.7	17.1	1.11	12.0	0.65	32.7	31.8	0.57	0.069	22.5	06.3	0.51			
10518		1978	06	22.7	1.19	7	50	2.19	07.3	1.19	10.7	0.54	27.2	29.0	0.74	0.058	24.9	05.0	0.53			
10519		1978	06	14.3	2.12	6	45	3.39	13.6	2.12	12.9	0.63	33.0	31.2	0.73	0.042	30.0	07.8	0.55			
10520		1978	05	13.6	2.23	7	07	3.33	17.2	2.23	15.9	0.67	33.1	03.0	0.70	0.042	30.0	06.3	0.60			

TUR accession number	Seed										Fruit																
	Seed width in mm		Seed thickness in mm		Cotyledon colour				Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in		
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV			mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	
10491	11.1	03.2	07.8	06.9	0	0	0	+	0	153	10.6	091	08.7	0.60	554	27.7	11.8	12.8	07.5	16.1	3004	0	0	0			
10492	11.0	04.1	07.6	06.9	0	0	0	+	0	135	10.3	087	08.3	0.64	417	29.9	10.5	14.6	06.9	13.8	2863	0	0	0			
10493	15.6	06.4	11.3	08.0	0	0	+	0	0	195	11.3	100	09.8	0.50	616	25.2	15.0	16.1	10.6	19.1	3052	0	0	0			
10494	11.9	05.9	07.1	07.9	0	0	0	+	0	140	10.7	084	11.3	0.61	0.50	431	25.9	12.5	16.0	05.3	17.5	2992	0	0	0		
10495	12.3	04.9	07.9	10.6	0	0	0	+	0	137	09.7	007	08.6	0.63	0.53	445	23.7	09.0	12.2	06.6	15.2	3004	0	0	0		
10496	12.4	05.4	07.8	06.4	0	0	0	+	0	152	09.1	093	07.9	0.61	0.50	525	28.2	10.1	14.2	06.3	16.8	2983	0	0	0		
10497	12.6	05.0	07.5	09.2	0	0	+	0	0	152	11.2	006	11.6	0.52	480	26.9	10.2	16.5	06.7	19.8	2909	0	0	0			
10498	12.8	03.8	08.7	07.7	+	0	+	+	0	130	08.2	097	08.5	0.60	529	24.9	11.5	16.1	06.6	11.7	3083	0	0	0			
10499	12.6	05.2	07.8	11.6	+	0	0	+	0	138	10.1	089	16.0	0.64	495	25.4	10.7	13.0	08.0	17.2	2983	0	0	0			
10504	13.8	04.4	09.6	10.6	0	0	0	+	0	210	13.1	104	09.7	0.50	0.51	1006	32.2	15.6	14.8	08.9	19.6	3008	9	9	7		
10506	13.3	09.7	10.4	08.7	0	0	+	0	0	202	10.3	092	11.3	0.45	050	22.3	15.0	15.0	10.4	10.5	2903	0	0	0			
10507	12.3	05.8	08.8	08.0	0	0	+	+	0	212	14.0	100	05.7	0.51	1471	22.1	18.1	10.0	12.1	12.9	3006	0	0	0			
10508	12.0	03.3	08.0	08.7	0	0	0	+	0	158	13.9	084	08.3	0.53	533	30.6	11.7	09.4	07.8	07.7	29E8	0	0	0			
10509	11.9	06.8	08.3	10.3	0	0	0	+	0	174	12.2	091	09.4	0.53	640	27.3	11.4	11.7	07.2	15.9	29C3	0	0	0			
10510	12.0	04.2	07.8	06.0	0	0	0	+	0	185	11.1	098	06.6	0.53	752	25.9	13.2	09.7	08.5	11.5	20B3	0	0	0			
10511	12.2	04.3	08.8	06.0	0	0	0	+	0	210	10.8	104	08.0	0.51	1905	29.6	15.9	10.3	10.0	12.4	30C7	0	0	0			
10512	12.0	04.2	07.7	06.5	0	0	0	+	0	164	08.4	086	05.8	0.52	0.43	536	19.3	11.6	09.5	07.7	13.0	29E7	0	0	0		
10517	12.0	6.7	8.1	17.3	+	0	+	0	+	164	30.3	88	11.5	0.54	0.54	608	25.0	12.2	30.3	87.6	11.5	29D8	0	0	0		
10524	12.4	05.6	07.0	11.5	0	0	+	0	0	170	14.9	084	09.3	0.42	0.40	550	30.6	11.3	16.0	06.4	10.7	29C4	9	0	4		
10525	11.6	06.0	08.0	11.4	0	0	+	0	0	217	19.1	002	07.3	0.38	0.52	628	24.7	17.3	11.0	08.1	10.5	30E6	9	9	7		
10526	12.3	03.3	09.0	06.7	0	0	+	+	+	217	09.8	086	08.1	0.40	0.40	704	26.7	13.9	18.0	06.5	16.9	29D5	9	9	7		
10527	11.4	03.8	08.4	09.6	0	0	0	+	0	175	11.8	081	07.1	0.46	476	29.4	12.7	12.9	06.9	17.7	29E5	0	0	0			
10532	13.3	06.0	09.2	13.0	0	0	+	0	0	164	12.3	088	07.4	0.54	549	26.2	15.0	09.3	09.4	20.2	29E7	1	0	0			
10533	16.4	07.9			+	0	+	+	0	109	16.9	094	11.7	0.50	792	30.7					30D6	0	0	0			
10534	16.5	04.2	11.3	08.0	+	0	+	+	0	202	13.4	094	08.5	0.47	784	31.1	16.6	09.6	11.6	10.3	30D7	0	0	0			

TUFR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10491	0	0.97	4	5	3	1	5	2.51	0.07	1.51	0.06	1.0	0.04	7.64	0.29	8.93	0.45	2.41	0.27	7.77	0.50	2.21	0.26	
10492	0	0.74	3	3	3	1	7	2.19	0.15	1.55	0.09	1.01	0.04	7.98	0.53	8.81	0.61	2.15	0.20	7.91	0.54	2.07	0.14	
10493	0	0.73	3	3	6	0	5	2.40	0.15	1.0	0.09	1.03	0.07	8.20	0.51	9.05	0.55	2.58	0.20	8.77	0.45	3.03	0.11	
10494	0	0.88	3	0	3	1	4	2.2	0.1	1.2	0.1	1.0	0.1	6.9	0.3	6.8	0.3	1.9	0.1	6.4	0.5	2.2	0.2	
10495	0	0.83	3	0	2	0	7	2.3	0.2	1.3	0.1	1.0	0.1	8.0	0.4	8.3	0.7	2.3	0.2	7.9	0.4	2.5	0.1	
10496	0	0.78	3	3	2	0	7	2.20	0.14	2.02	0.14	1.00	0.04	8.29	0.67	8.94	0.39	2.40	0.29	8.20	0.55	2.50	0.24	
10497	0	0.73	2	2	3	1	7	2.24	0.11	1.45	0.06	1.05	0.05	7.85	0.25	8.89	0.47	2.41	0.21	7.48	0.45	3.95	0.25	
10498	0	0.87	2	0	2	0	7	2.09	0.32	1.46	0.08	1.05	0.05	8.33	0.34	8.15	0.58	2.49	0.17	7.69	0.38	2.56	0.21	
10499	0	0.94	2	1	2	0	7	2.16	0.14	1.50	0.14	1.09	0.07	8.09	0.52	8.09	0.56	2.47	0.27	7.45	0.51	2.27	0.17	
10504	5	0.91	2	5	5	1	7	2.64	0.08	1.66	0.08	1.19	0.08	7.97	0.39	9.39	0.47	2.54	0.21	10.31	0.76	2.96	0.14	
10506	0	0.79	3	5	5	0	5	2.29	0.10	1.39	0.11	0.91	0.06	7.08	0.27	8.05	0.57	2.35	0.25	7.45	0.41	2.81	0.30	
10507	0	0.92	2	5	5	1	5	2.30	0.27	1.44	0.00	0.97	0.05	8.72	0.32	8.71	0.40	2.40	0.32	9.62	0.43	3.12	0.26	
10508	0	0.68	3	2	4	0	7	2.37	1.55	1.39	0.10	1.04	0.03	8.09	0.31	7.61	0.55	2.29	0.24	7.05	0.42	2.63	0.36	
10509	0	0.97	2	3	4	1	7	2.51	0.10	1.41	0.07	0.95	0.07	8.05	0.27	8.26	0.37	2.84	0.21	7.27	0.34	2.85	0.32	
10510	0	0.86	5	3	3	0	5	2.41	0.23	1.45	0.07	1.01	0.02	6.16	0.41	7.47	0.78	2.40	0.25	7.53	0.46	2.48	0.26	
10511	0	0.89	2	5	3	0	5	2.37	0.15	1.44	0.09	0.97	0.02	8.98	0.40	9.26	0.44	2.82	0.12	9.51	0.62	3.05	0.36	
10512	0	0.75	2	2	3	0	7	2.3	0.2	1.4	0.1	1.1	0.1	6.6	0.5	7.0	0.4	2.4	0.2	7.0	0.4	2.8	0.3	
10517	0	0.98	1	1	3	2	7	2.18	0.17	1.44	0.11	1.02	0.04	8.48	0.43	8.73	0.44	2.39	0.18	7.84	0.28	2.67	0.21	
10524	1	0.65	5	5	5	0	5	2.15	0.10	1.25	0.06	1.10	0.07	8.93	0.34	8.73	0.35	2.17	0.15	6.17	0.64	2.43	0.19	
10525	5	0.61	5	3	5	3	5	2.53	0.07	1.40	0.11	0.97	0.05	8.32	0.60	9.57	0.26	2.28	0.25	8.21	0.39	3.81	0.22	
10526	5	0.80	5	3	4	3	5	2.22	0.35	1.31	0.10	1.06	0.06	7.86	0.08	8.28	1.02	2.43	0.32	7.85	0.93	2.71	0.36	
10527	0	0.74	7	7	5	1	5	2.10	0.17	1.38	0.12	1.0	0.05	8.65	0.23	7.64	0.38	2.20	0.23	6.56	0.82	2.65	0.30	
10532	0	0.78	7	5	5	1	7	2.4	0.19	1.2	0.11	1.0	0.06	8.3	0.33	8.5	0.59	2.3	0.27	6.9	0.41	2.5	0.35	
10533	0	0.75	4	3	7	0	5	2.07	0.22	1.25	0.11	0.96	0.04	7.73	0.59	8.46	0.41	2.26	0.22	7.77	0.70	2.49	0.35	
10534	0	0.78	3	3	7	1	3	2.0	0.11	1.7	0.12	1.02	0.11	9.0	0.22	9.0	0.40	2.4	0.15	7.9	0.27	3.0	0.18	

TUR accession number	Flower					Leaf		Compatibility and resistance					Notes			
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	Phytophthora palmivora	References	Crimipellis perniciosa	References		Monilia roreni	References	Ceratocystis fimbriata
10491	3	3	10A3	0	30A3	5D4										
10492	7	3	10A4	0	30C4	6C4										
10493	3	3	10A2	0	30A3	5C5		T-R	1							NAIVE UI
10494	3	0	9A3	0	30D4	8D7										
10495	7	5	9A4	0	30D5	7D7	0 43		S	43						
10496	3	3	8A2	0	29D4	5D5										
10497	7	7	9A2	0	30D5	7D7	0 42		T-R	1						
10498	3	0	1A2	0	30C5	1B6			T-R	1						
10499	0	0	1A2	0	29C5	1C7										
10504	7	0	10B6	3	30B4	8E6	+ 22,43		T-R	1,43						
10506	7	3	1A2	0	30B5	8D7										
10507	3	3	1A2	0	29B5	3D5										
10508	7	7	1A2	0	29B5	1C8	0 41,42					T-R	1			SEEMS NOT SPA
10509	7	7	1A2	0	30A3	8D7										DUBIOUS
10510	7	7	1A2	0	30C5	2C5										
10511	3	3	1A2	0	29C5	5C5										
10512	3	7	1A2	0	29C5	6C7										
10517	0	0	1A2	0	30C5	1C8										
10524	3	0	11A5	3	38E7	9C7		T-R	1		T-R	1				
10525	0	0	11A4	0	30C5	7D7										
10526	0	0	11A4	3	30C5	6D7										
10527	0	3	9A2	0	29B4	5C4	0 42		T-R	1,41						GOOD COMBINING ABIL
10532	3	0	9A3	0	3B4	8C7	0 P									
10533	0	0	10A2	0	20A4	8C7										
10534	0	0	9A2	0	30A5	8C7	0 13,44,P		T-R	1						

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10535	D	24	10	UF-12			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10536	D	38	14	UF-20			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10537	B	25	15	UF-29			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10540	H	73	7	UF-36			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10541	D	41	10	UF-93			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10542	D	44	8	UF-122			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10543	B	26	13	UF-168			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10544	D	46	8	UF-210			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10545	D	27	15	UF-221			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10546	B	16	9	UF-242			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10547	B	15	7	UF-273			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10548	D	28	15	UF-296	EET-282		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10549	D	43	9	UF-296	EET-282		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10550	D	47	11	UF-601			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10551	D	48	10	UF-602			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10554	B	29	14	UF-613	EET-4		COSTA RICA	LIMON	ZENT	3	UNITED FRUIT CO.	
10557	D	30	15	UF-650	EET-3; 8; 297		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10558	D	31	15	UF-654	EET-278		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10559	B	52	11	UF-666			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10560	B	32	14	UF-667	EET-281; 313		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10562	D	33	14	UF-669			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10563	H	72	8	UF-667			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10564	D	34	12	UF-672			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10565	B	35	15	UF-676	EET-290		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10566	D	36	15	UF-677	EET-9		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	

TUR accession number	Pedigree	General			Production						Seed												
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds		Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number		Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed weight/seed length
							mean	CV	mean	CV	mean	CV	mean	CV	Ratio number of seeds/maximum seed number	Ratio number of seeds/fruit weight	mean	CV					
10535		1980	07	52.0	1.83	3	46	2.78	09.8	1.83	11.3	0.66	35.1	21.4	0.66	0.052	28.1	06.4	0.56				
10536		1980	05	21.7	1.33	5	48	2.19	09.4	1.33	11.1	0.60	34.0	19.0	0.72	0.043	24.1	07.9	0.59				
10537		1978	05	21.7	1.18	5	52	1.83	12.0	1.18	09.8	0.64	39.7	28.2	0.76	0.030	25.0	05.8	0.53				
10540		1978	06	21.8	1.19	7	52	1.78	20.2	1.19	10.4	0.67	38.4	25.5	0.74	0.083	26.0	07.7	0.52				
10541		1978	06	24.2	1.31	3	40	2.11	11.4	1.31	13.1	0.62	31.4	22.9	0.70	0.056	25.1	08.2	0.61				
10542		1980	06	43.3	1.64	2	46	2.57	16.6	1.64	17.5	0.64	37.2	15.3	0.82	0.066	26.8	07.1	0.56				
10543		1978	08	15.8	1.92	5	45	2.82	11.1	1.92	11.5	0.68	33.0	25.5	0.73	0.056	28.6	05.2	0.53				
10544		1978	06	26.2	1.05	3	48	1.91	12.2	1.05	06.4	0.55	36.5	24.9	0.76	0.060	22.2	06.0	0.61				
10545		1980	05	18.9	1.46	7	43	2.43	13.7	1.46	21.5	0.60	36.3	17.9	0.84	0.072	26.1	05.0	0.59				
10546		1978	12	21.9	1.35	6	52	2.05	11.4	1.35	12.9	0.66	33.9	33.3	0.65	0.061	24.0	05.8	0.55				
10547		1979	03	22.2	1.31	5	47	2.01	09.0	1.31	09.7	0.65	34.5	27.0	0.73	0.056	23.7	05.9	0.58				
10548		1980	05	20.1	1.19	7	51	1.77	20.8	1.19	18.5	0.67	41.9	23.9	0.82	0.085	24.4	04.2	0.52				
10549		1978	08	26.9	1.16	5	56	1.83	07.7	1.16	10.3	0.64	36.5	34.5	0.65	0.078	24.1	04.1	0.54				
10550		1978	06	13.8	1.95	6	46	3.13	11.5	1.95	12.0	0.62	37.3	19.0	0.81	0.052	29.5	06.4	0.57				
10551		1980	02	19.2	1.54	4	41	2.36	04.5	1.54	09.3	0.65	32.6	20.2	0.80	0.066	25.6	03.9	0.57				
10554		1980	08	20.7	1.41	3	46	2.23	14.2	1.41	17.1	0.62	34.3	22.7	0.75	0.039	26.0	05.8	0.53				
10557		1978	06	20.0	1.99	5	41	3.31	05.8	1.99	09.7	0.60	30.7	29.0	0.75	0.044	28.1	03.6	0.56				
10558		1978	06	19.6	1.85	7	41	3.09	10.3	1.85	11.9	0.60	27.5	29.5	0.67	0.052	28.6	03.8	0.55				
10559		1978	07	24.5	1.54	5	37	2.54	06.3	1.54	09.5	0.61	26.5	24.5	0.72	0.039	25.5	06.7	0.58				
10560		1978	06	24.9	1.82	7	40	3.03	14.7	1.82	17.6	0.60	30.1	22.9	0.75	0.042	27.9	07.9	0.57				
10562		1980	04	40.6	1.16	3	41	1.84	15.6	1.16	18.0	0.63	28.6	23.1	0.70	0.041	24.9	05.2	0.52				
10563		1978	06	17.4	1.86	6	45	2.93	07.0	1.86	07.5	0.63	30.9	31.1	0.69	0.058	28.5	04.2	0.53				
10564		1978	06	30.8	1.1	7	42	1.91	12.4	1.1	10.3	0.58	29.5	30.8	0.70	0.061	26.0	04.2	0.53				
10565		1978	06	30.2	1.9	7	40	3	08.4	1.9	07.0	0.63	10.7	35.5	0.27	0.033	27.2	06.6	0.55				
10566		1978	06	20.1	1.76	6	42	2.91	17.0	1.76	25.4	0.61	20.2	54.5	0.40	0.034	29.1	04.1	0.54				

TUR accession number	Seed										Fruit																		
	Seed width in mm		Seed thickness in mm		Cotyledon colour				Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in				
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	ridges	furrows	ridges of ripe fruit	intensity
10535	15.6	05.8	10.5	09.5	+	0	+	+	0	190	12.6	093	08.6	0.49	0.49	675	31.1	13.5	14.1	09.4	20.2	30D7	0	0	0				
10536	14.2	06.3	09.1	08.8	0	0	+	0	0	183	09.8	108	09.2	0.59	0.52	812	25.2	17.3	14.4	08.7	19.5	29C4	5	1	3				
10537	13.6	07.3	08.5	14.5	0	0	0	+	0	154	13.6	085	09.4	0.55	0.48	494	34.1	11.5	09.6	06.9	17.2	30D6	0	0	0				
10540	13.7	05.0	08.7	11.5	0	0	0	+	0	166	13.7	086	10.5	0.52		465	34.8	14.0	12.3	07.3	13.7	29E7	0	0	0				
10541	15.4	05.1	10.1	10.7	+	0	+	0	0	149	16.0	034	11.6	0.56	0.60	559	38.2	14.8	09.9	09.8	11.1	30E8	8	7	5				
10542	15.0	06.7	09.5	10.5	0	0	+	0	0	180	11.2	091	07.1	0.51	0.48	571	36.1	12.2	10.7	07.6	12.9	30D7	9	8	0				
10543	15.2	32.2	10.6	12.3	+	0	+	+	0	171	15.1	069	07.7	0.52		505	50.4	13.4	06.7	08.7	17.2	30D7	0	0	0				
10544	13.5	08.1	09.3	16.1	0	0	+	0	0	176	11.5	067	08.0	0.50	0.52	643	34.5	15.4	12.3	08.2	16.3	29E8	0	0	0				
10545	15.4	05.8	09.0	08.9	0	0	+	0	0	178	10.7	085	07.1	0.48	0.50	505	24.4	11.3	12.4	07.0	11.4	29D8	9	8	5				
10546	13.2	06.8	08.9	10.1	0	0	0	+	0	171	14.0	086	11.6	0.51		557	35.4	12.7	16.5	07.3	21.9	29C5	0	0	0				
10547	13.8	05.8	09.4	08.5	0	0	0	+	0	184	09.8	089	10.1	0.48		612	25.8	13.2	11.4	08.6	14.0	29B3	0	7	6				
10548	12.8	09.7	08.5	14.1	0	0	+	+	0	163	09.0	086	07.0	0.53	0.57	495	22.0	11.8	11.8	07.6	13.2	30E8	9	8	8				
10549	13.0	04.6	09.0	13.3	0	0	+	0	0	159	17.6	082	11.8	0.52	0.50	468	40.6	12.4	13.7	08.3	14.5	29D7	9	8	5				
10550	16.8	06.5	11.3	03.5	0	0	+	0	0	185	15.7	089	09.0	0.48		723	30.6	14.0	15.7	10.4	14.4	29C4	9	8	5				
10551	14.6	04.1	09.8	05.1	0	0	+	+	0	153	09.5	090	06.7	0.59	0.51	477	24.5	11.3	15.9	06.9	20.3	30C4	0	0	0				
10554	13.9	3.6	9.3	9.7	0	0	+	+	0	109	11.1	100	0.9	0.09	0.46	890	38.1	13.7	16.9	6.8	15.9	30D7	8	8	8				
10557	15.6	05.8	11.1	10.8	+	0	+	+	0	177	14.7	086	10.5	0.49		574	30.1	14.8	06.5	08.8	04.5	30C7	9	7	5				
10558	15.6	07.1	09.8	07.1	0	0	+	0	0	169	13.6	083	10.0	0.49		532	26.5	12.2	06.6	08.4	07.1	30C4	8	4	6				
10559	14.9	06.1	11.7	06.0	+	0	+	0	0	222	13.1	083	09.6	0.50		677	30.9	16.6	07.4	09.2	11.1	30L0	0	0	0				
10560	16.0	08.1	10.6	11.3	0	0	+	0	0	163	16.0	084	09.5	0.53		523	34.9	12.2	09.8	07.6	10.8	30B3	9	7	5				
10562	12.9	6.2	8.4	9.5	0	0	+	+	+	186	10.0	94	7.1	0.50	0.47	701	20.5	12.6	10.3	8.2	11.0	29E8	9	9	7				
10563	15.2	05.9	09.6	02.7	+	0	+	+	0	168	19.6	088	12.5	0.52		532	38.7	08.2	09.6	08.2	10.9	30E8	0	0	0				
10564	13.8	06.5	10.5	07.6	0	0	+	0	0	170	18.6	082	11.0	0.48		402	23.9	14.4	06.2	14.8	03.7	30C4	9	7	6				
10565	14.9	05.4	10.7	03.7	+	0	+	0	0	166	17.5	085	12.9	0.51		829	39.7	16.0	08.0	08.0	11.4	29D6	0	0	0				
10566	15.8	04.4	11.4	03.5	+	0	+	0	0	170	15.3	092	08.7	0.54		601	30.0	14.3	03.5	08.5	15.3	29E8	0	0	0				

TUFR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit								Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	Ridge pair separation	Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Mesocarp hardness	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV		
10535	0	0.71	3	3	6	1	5	2.1	0.08	1.6	0.18	1.0	0.08	8.1	0.29	8.9	0.34	2.4	0.22	7.8	0.44	3.0	0.21	
10536	0	0.70	7	3	3	3	5	2.6	0.23	1.3	0.12	1.1	0.09	5.9	0.54	8.2	0.83	2.2	0.20	6.5	0.52	2.4	0.32	
10537	0	0.84	5	3	3	1	7	2.27	0.08	1.37	0.10	0.95	0.07	6.56	0.37	9.03	0.59	2.00	0.18	7.27	0.50	2.23	0.25	
10540	0	0.75	5	5	4	5	3	2.6	0.2	1.4	0.1	1.03	0.05	6.0	0.5	8.4	0.8	1.9	0.2	6.8	0.5	2.3	0.2	
10541	0	0.76	2	3	3	1	7	2.20	0.07	1.32	0.12	0.91	0.09	6.97	0.36	9.60	0.42	2.45	0.22	7.86	0.28	2.62	0.25	
10542	0	0.78	4	3	5	1	5	2.4	0.23	1.3	0.11	0.98	0.04	7.9	0.34	8.8	0.41	2.4	0.34	8.3	0.60	2.6	0.32	
10543	0	0.79	4	3	6	0	5	1.9	0.24	1.3	0.19	0.97	0.10	7.9	0.46	8.2	0.47	2.3	0.23	7.4	0.32	3.0	0.31	
10544	0	0.93	5	5	5	1	7	2.0	0.06	1.4	0.09	0.92	0.05	6.5	0.30	8.1	0.31	1.9	0.14	6.8	0.49	2.2	0.30	
10545	5	0.82	4	3	6	1	3	2.0	0.11	1.9	0.27	0.96	0.07	7.7	0.14	9.0	0.67	2.2	0.24	8.0	0.62	2.7	0.37	
10546	0	0.74	5	5	4	5	7	2.70	0.35	1.37	0.09	0.96	0.07	6.89	0.53	9.02	0.38	2.47	0.23	7.44	0.52	2.60	0.22	
10547	4	0.60	3	5	5	1	5	3.10	0.22	1.43	0.09	1.0	0.06	7.29	0.44	10.15	0.32	1.96	0.09	8.51	0.58	2.75	0.27	
10548	6	0.79	3	5	3	5	7	2.1	0.10	1.7	0.10	1.0	0.11	6.6	0.30	8.2	0.40	2.2	0.19	7.5	0.36	2.6	0.25	
10549	2	0.59	3	3	3	5	7	2.5	0.2	1.4	0.1	1.0	0.1	7.0	0.3	7.9	0.4	2.3	0.2	8.2	0.3	2.4	0.2	
10550	2	0.73	4	5	6	1	3	2.0	0.06	1.4	0.09	0.98	0.04	7.8	0.36	8.9	0.41	2.4	0.25	7.0	0.46	2.8	0.19	
10551	0	0.66	5	5	3	5	7	1.9	0.10	1.4	0.17	1.0	0.06	7.4	0.41	8.4	0.55	2.2	0.32	7.0	0.45	2.0	0.10	
10554	8	0.79	5	3	7	3	7	2.5	0.15	1.3	0.1	1.09	0.09	7.35	0.63	8.94	0.34	2.69	0.14	8.0	0.32	3.1	0.24	
10557	5	0.86	3	3	5	0	5	2.2	0.14	1.2	0.13	0.95	0.08	7.9	0.46	9.4	0.75	2.4	0.19	8.0	0.40	3.0	0.23	
10558	0	0.78	4	5	6	0	5	2.0	0.12	1.1	0.12	1.01	0.00	7.5	0.37	9.1	0.50	2.3	0.23	7.9	0.54	2.9	0.20	
10559	0	0.57	3	3	7	5	3	2.95	0.08	1.16	0.07	0.98	0.06	7.06	0.39	8.83	0.37	2.05	0.15	7.48	0.53	2.78	0.31	
10560	3	0.68	5	5	6	1	7	2.2	0.16	1.2	0.14	0.91	0.07	7.0	0.31	8.7	0.40	2.2	0.31	7.3	0.53	2.3	0.24	
10562	5	0.77	3	2	5	1	7	2.2	0.14	1.5	0.12	0.99	0.07	7.6	0.35	8.4	0.50	2.0	0.10	7.5	0.52	3.0	0.22	
10563	0	0.79	2	3	7	0	3	2.3	0.19	1.42	0.11	1.04	0.06	7.72	0.63	8.09	0.41	2.47	0.35	8.49	0.50	2.97	0.25	
10564	2	0.81	4	3	7	1	3	2.16	0.14	1.47	0.09	1.0	0.06	7.41	0.41	8.96	0.52	2.40	0.17	7.43	0.58	2.55	0.28	
10565	0	0.78	3	4	5	0	5	2.2	0.15	1.3	0.14	1.0	0.08	7.4	0.28	9.1	0.56	2.2	0.24	8.1	0.53	2.7	0.30	
10566	0	0.71	5	5	5	0	5	2.1	0.10	1.3	0.15	0.90	0.07	7.8	0.25	9.1	0.52	2.3	0.20	8.1	0.62	2.9	0.24	

TUR accession number	Flower					Leaf		Compatibility and resistance						Notes			
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crinipellis perniciosa</i>	References	<i>Monilia roleri</i>		References	<i>Ceratocystis fimbriata</i>	References
10535	0	0	10A2	0	3A5	8C7	+	13	T-R	1							
10536	0	0	9A3	0	30B5	7C7											
10537	3	7	9A3	0	30C3	7D7	+	41,42,43	T-R	1	S	43		T-R	1,43		GOOD COMBINING ABIL
10540	3	3	11A3	0	30B4	8D8	0	T									
10541	0	3	9A3	0	30C5	9E8											
10542	0	0	11A2	3	30B5	9D8											
10543	0	0	10A3	0	29A4	7D8	0	P									
10544	3	3	11A4	0	30C2	8D8											
10545	0	3	10A3	7	29B5	7D7	+	13,40,42	S	43,44	S	43		T-R	1,44		BAD COMBINING ABILI
10546	3	7	11A4	0	30B5	5D5	+	44									
10547	0	3	10A4	7	30B4	10L4	+	22									
10548	3	0	10A3	7	30B4	8E8											
10549	1	0	9A4	1	30D6	8D7	+	43	T	43				T	43		
10550	0	0	11A3	3	30A3	9E7	0	P									
10551	0	3	10A2	0	30A4	8D7											
10554	?	?	10A5	3	30D5	8E8	0	42,43	T-R	1,43	S	43		T	43		
10557	0	0	10A4	3	30A5	9D6	+	13,42,43	S	43	S	43		S	43		
10558	0	0	10A3	3	29C5	9E7	0	P									
10559	0	0	9A2	0	29C5	9D7											
10560	0	0	10A3	0	30A5	8E8	0	13,42	P								GOOD COMBINING ABIL
10563	0	0	10A3	0	30C5	9D7											
10562	7	0	10B5	7	30C3	8D7	+	13,41,43									GOOD COMBINING ABIL
10564	3	0	11A5	7	30B4	9E7											
10565	0	0	10A2	0	29C5	7C7	0	13,43									
10566	0	0	9A2	0	30A4	8D7	+	13, 0	P								

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10567	D	49	15	UF-700			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10568	H	4	12	UF-700			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10569	D	50	14	UF-701			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10570	H	3	11	UF-703			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10571	H	5	12	UF-705			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10572	D	53	10	UF-706			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10573	H	6	13	UF-707			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10574	H	7	5	UF-708			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10575	H	8	7	UF-709			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10576	H	9	4	UF-710			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10577	H	10	5	UF-711			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10578	H	11	8	UF-712			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10579	H	12	6	UF-713			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10581	H	14	12	UF-715			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10583	H	16	7	UF-717			COSTA RICA	LIRION	ZENT	2	UNITED FRUIT CO.	
10584	B	9	8	X-VERDE			VENEZUELA	ARAGUA	OCURARE	3	ESTAC. EXP. OCURARE	
10585	B	66	12	189			COSTA RICA	CARTAGO	TURPIALBA	3	CAJFE	
10586	H	20	14	NO. 1			COSTA RICA	CARTAGO	TURPIALBA	3	CAJFE	
11672	G	46	3	TSH-565			TRINIDAD		RIVER ESTATE	3	HOSPITAL COLLEGE	?

TUR accession number	Pedigree	General			Production							Seed									
		Year of description	Month of description	Fruit index	Seed index	Productivity	Maximum number of seeds	Wet seed weight in g		Dry seed weight in g		Ratio dry/wet seed weight		Number of seeds per fruit		Ratio number of seeds/maximum seed number	Ratio number of seeds/fruit weight		Seed length in mm		Ratio seed width/seed length
								mean	CV	mean	CV	mean	CV	mean	CV		mean	CV			
10567		1978	06	41.4	.95	3	50	1.55	12.0	.95	14.0	0.61	28.1	24.5	0.56	0.067	26.3	04.9	0.52		
10568		1979	02	15.5	1.07	5	49	2.85	09.6	1.07	09.6	0.66	34.5	28.7	0.70	0.062	28.0	08.2	0.56		
10569		1978	04	26.4	1.40	7	43	2.16	04.3	1.03	10.3	0.66	34.3	16.9	0.80	0.067	24.9	06.4	0.60		
10570		1979	06	35.6	.83	7	49	1.30	05.3	.83	09.7	0.60	34.0	25.9	0.69	0.081	21.2	07.5	0.58		
10571		1978	07	28.0	1.25	5	49	1.95	11.6	1.25	06.4	0.64	28.5	33.7	0.58	0.065	23.5	04.7	0.55		
10572		1980	04	24.0	1.17	2	44	1.92	9.7	1.17	11.4	0.61	35.7	19.9	0.81	0.061	24.2	6.2	0.57		
10573		1978	07	26.9	1.50	5	40	2.49	11.8	1.50	13.8	0.62	31.0	28.0	0.77	0.051	25.4	09.7	0.56		
10574		1979	11	20.0	1.56	3	44	2.50	12.8	1.56	12.4	0.64	32.1	22.9	0.73	0.040	27.3	06.5	0.53		
10575		1979	06	20.8	1.49	6	47	2.27	10.9	1.49	09.8	0.66	32.3	28.8	0.69	0.040	25.7	07.7	0.58		
10576		1979	07	19.2	1.32	3	49	2.09	29.6	1.32	26.7	0.63	39.5	17.1	0.81	0.047	26.0	09.7	0.57		
10577		1979	05	19.7	1.56	5	45	2.46	08.4	1.56	12.3	0.63	32.6	31.5	0.79	0.051	25.7	05.2	0.59		
10578		1979	00	26.5	1.16	4	47	1.71	12.1	1.16	14.1	0.60	32.5	30.5	0.69	0.052	24.4	04.8	0.56		
10579		1978	07	26.5	1.31	4	45	2.09	23.3	1.31	18.8	0.63	28.9	35.3	0.64	0.057	24.7	06.6	0.55		
10581		1978	07	25.8	1.29	7	43	2.14	12.1	1.29	17.5	0.60	30.0	27.3	0.70	0.065	26.1	06.5	0.54		
10583		1978	07	22.7	1.29	3	49	2.09	14.6	1.29	12.5	0.62	29.1	27.3	0.70	0.054	24.8	05.9	0.55		
10584		1979	01	13.9	1.21	3	47	3.13	10.6	1.21	11.5	0.70	32.5	31.1	0.69	0.037	29.5	05.1	0.55		
10585		1979	01	22.5	1.47	5	39	2.37	09.7	1.47	11.4	0.62	30.3	28.9	0.70	0.058	22.9	05.8	0.64		
10586		1979	05	20.8	1.54	3	44	2.34	07.4	1.54	08.2	0.66	31.2	29.4	0.71	0.037	27.9	05.6	0.53		
11672	SLA-6 x TBC-67	1979	05	22.5	1.17	7	50	1.96	07.5	1.17	10.2	0.60	37.5	24.3	0.76	0.061	25.2	05.5	0.49		

TUR accession number	Seed										Fruit																		
	Seed width in mm		Seed thickness in mm		Cotyledon colour					Fruit length in mm		Fruit width in mm		Ratio fruit width/length		Ratio distance base to widest part/fruit length		Fruit weight in g		Fruit wall thickness at ridge in mm		Fruit wall thickness at furrow in mm		Basic fruit surface colour		Anthocyanin intensity in			
	mean	CV	mean	CV	white	greyish white	light purple	dark purple	purple, spotted	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10567	13.7	05.8	07.6	07.8	0	0	+	0	0	130	11.5	082	07.3	0.63	0.52	418	28.9	13.8	02.9	08.0	06.3	30D7	9	9	8				
10568	15.8	07.6	09.9	10.1	0	0	+	0	0	188	11.2	087	09.2	0.46		552	31.2	09.5	11.6	05.6	16.1	30E8	9	7	5				
10569	14.9	05.4	08.7	14.9	0	0	+	0	0	357	08.9	085	04.7	0.54		513	20.3	11.1	09.9	07.5	15.0	30E7	9	7	5				
10570	12.4	07.3	07.5	08.0	0	0	+	0	0	134	11.9	084	07.1	0.63		028	30.5	00.3	17.4	05.0	19.5	29D7	0	0	0				
10571	12.9	04.6	08.3	10.8	0	0	0	+	0	150	13.3	084	10.7	0.56		437	30.7	12.0	10.0	07.2	13.9	29E8	0	0	0				
10572	13.8	4.3	8.1	8.6	0	0	+	0	0	144	11.1	93	8.9	0.65	0.53	581	28.3	12.0	12.5	7.5	16.0	30C4	3	3	0				
10573	14.2	06.3	10.5	05.7	0	0	+	0	0	181	11.0	087	10.3	0.40		607	26.0	13.5	00.9	08.9	10.1	30B7	0	0	0				
10574	14.6	06.7	09.6	08.2	0	0	+	0	0	200	13.5	098	09.2	0.49	0.53	006	35.7	15.0	12.7	09.9	10.9	29D8	9	9	7				
10575	15.0	07.5	10.1	10.7	0	0	0	+	0	184	14.8	090	12.3	0.49		691	33.8	13.8	11.1	08.2	13.3	29D8	9	9	8				
10576	14.9	13.2	09.3	12.3	0	0	+	0	0	204	12.5	097	10.6	0.48		841	25.1	13.7	11.7	08.2	12.2	29C5	9	9	7				
10577	15.1	08.2	09.3	05.5	0	0	+	0	0	190	11.1	092	06.9	0.49		638	23.6	13.3	10.9	07.9	15.4	29E0	9	9	7				
10578	13.6	06.4	09.8	01.0	0	0	0	+	0	171	11.1	092	08.4	0.54		629	27.7	13.5	11.1	07.7	11.2	29D5	0	0	0				
10579	13.6	12.3	09.1	08.7	0	0	+	0	0	171	13.9	081	08.8	0.47		509	39.1	12.6	15.7	08.4	16.1	29E6	0	0	0				
10581	14.1	07.1	09.7	10.3	0	0	+	0	0	153	13.7	084	09.5	0.55		463	33.9	13.7	08.7	09.6	09.4	29E8	9	9	7				
10583	13.6	08.2	09.5	11.1	0	0	+	0	0	180	21.4	080	09.3	0.44		629	41.3	15.2	11.3	09.0	14.3	29B4	0	0	0				
10584	16.3	09.3	11.1	07.2	+	0	+	+	0	201	14.1	098	07.8	0.42		873	39.1	15.1	12.5	09.9	17.2	30D5	0	0	0				
10585	14.6	04.4	11.0	08.9	+	0	+	0	0	195	12.1	084	07.8	0.43		521	21.1	11.9	10.3	06.9	15.3	29C3	0	0	0				
10586	14.7	04.7	10.4	11.2	0	0	+	0	0	224	11.6	097	07.2	0.43		852	28.1	13.6	13.6	09.1	12.8	29C4	2	0	0				
11672	12.3	04.1	09.4	04.2	+	0	+	+	0	211	14.7	086	05.8	0.41		621	26.6	13.3	13.5	07.8	17.9	29D4	0	0	0				

TUR accession number	Fruit								Flower															
	Anthocyanin intensity in furrows of ripe fruit		Ridge pair separation		Primary furrow depth		Fruit surface rugosity		Style length in mm		Ovary length in mm		Ovary width in mm		Staminode length in mm		Sepal length in mm		Sepal width in mm		Ligule length in mm		Ligule width in mm	
	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV	mean	CV
10567	5	0.72	2	5	5	0	7	1.92	0.14	1.31	0.09	0.96	0.05	6.73	0.32	8.91	0.57	2.20	0.27	6.92	0.30	2.16	0.20	
10568	5	0.93	5	5	3	1	3	2.34	0.15	1.41	0.11	1.01	0.05	7.86	0.03	9.35	0.41	2.11	0.16	8.71	0.68	2.36	0.32	
10569	2	0.81	3	3	3	1	3	2.0	0.12	1.4	0.09	0.98	0.01	8.0	0.37	8.2	0.52	2.1	0.13	7.5	0.56	2.1	0.24	
10570	0	0.90	4	3	3	0	5	2.23	0.17	1.24	0.14	1.01	0.06	7.14	0.21	7.71	0.45	2.23	0.21	7.35	0.48	2.14	0.15	
10571	0	0.71	4	5	3	3	7	2.56	0.31	1.29	0.14	1.0	0.04	7.11	0.19	9.10	0.61	2.44	0.31	7.78	0.46	2.56	0.39	
10572	0	0.82	3	2	3	1	7	1.78	0.15	1.28	0.09	0.87	0.07	6.56	0.24	9.34	0.31	2.24	0.20	6.99	0.58	2.09	0.15	
10573	0	0.81	4	5	5	1	3	1.96	0.08	1.36	0.12	1.03	0.04	7.54	0.29	8.68	0.42	2.41	0.16	7.34	0.53	2.72	0.13	
10574	5	0.94	2	5	5	1	7	2.23	0.18	1.34	0.15	1.01	0.02	7.95	0.36	8.54	0.52	2.38	0.30	7.86	0.67	2.45	0.21	
10575	5	0.70	5	3	5	5	3	2.79	0.63	1.53	0.14	1.06	0.09	8.40	0.46	9.87	0.64	2.28	0.22	8.73	0.58	2.52	0.16	
10576	3	0.72	6	5	5	1	7	2.02	0.06	1.40	0.18	1.01	0.06	8.93	0.39	9.16	0.46	2.15	0.16	9.09	0.76	2.17	0.22	
10577	5	0.72	7	7	5	5	3	3.14	0.02	1.59	0.16	1.01	0.07	8.05	0.38	10.25	0.96	2.46	0.21	8.55	0.43	2.69	0.23	
10578	0	0.66	5	4	3	3	3	2.91	0.52	1.22	0.07	1.07	0.09	6.52	0.48	7.63	0.48	2.12	0.21	7.02	0.48	2.61	0.24	
10579	0	0.68	6	5	5	3	5	2.54	0.12	1.51	0.06	1.0	0.03	7.31	0.62	9.67	0.31	2.38	0.28	7.81	0.81	2.71	0.26	
10581	5	0.02	2	3	5	3	3	2.42	0.11	1.49	0.08	1.01	0.05	7.93	0.21	8.49	0.70	2.42	0.26	8.10	0.55	2.70	0.18	
10583	0	0.72	5	4	5	3	5	2.29	0.26	1.42	0.08	0.98	0.05	7.62	0.38	9.30	0.41	2.52	0.23	6.94	0.48	2.67	0.24	
10584	0	0.75	6	6	6	0	3	2.08	0.10	1.36	0.07	1.03	0.04	7.80	0.44	9.91	0.53	2.43	0.28	8.50	0.53	2.87	0.32	
10585	0	0.74	5	7	0	7	5	2.33	0.20	1.43	0.09	0.97	0.05	7.43	0.32	8.74	0.47	2.77	0.42	8.22	0.46	2.63	0.17	
10586	0	0.75	3	3	7	1	5	2.39	0.10	1.19	0.14	0.95	0.07	7.11	0.33	9.09	0.29	2.46	0.19	8.27	0.47	2.69	0.34	
11672	0	0.70	3	5	5	5	3	2.43	0.12	1.53	0.05	1.08	0.04	8.22	0.78	9.12	0.43	2.69	1.64	7.89	0.89	2.86	0.55	

TUR accession number	Flower					Leaf		Compatibility and resistance						Notes			
	Anthocyanin in ligule	Anthocyanin filament	Sepal colour	Anthocyanin in ovary	Peduncle colour	New flush colour	Self-compatibility	References	<i>Phytophthora palmivora</i>	References	<i>Crimipellis perniciosa</i>	References	<i>Monilia roreni</i>		References	<i>Ceratocystis fimbriata</i>	References
10567	0	0	10A3	7	30B4	9E7											
10568	0	3	10A4	0	30A4	9F0											
10569	0	0	10A2	3	30B4	6D7											
10570	3	7	10A4	0	30B3	6C5											
10571	0	7	10A4	0	30B4	6D7											
10572	3	3	10A4	0	30C4												
10573	3	3	10A3	0	30A4	7C9											
10574	0	0	8A2	7	30B5	7E6											
10575	0	3	10A3	7	30B4	7E6											
10576	0	0	10A2	3	30B4	7D7											
10577	0	3	10C6	7	30C4	9E6											
10578	3	0	10A3	7	29C4	4E5											
10579	3	3	10A5	7	30B4	4C4											
10581	3	0	10B5	3	30B5	9D0	T-P	1									
10583	3	3	10A5	0	30B4	4D5											
10584	3	0	10A3	0	30A4	7C6		T-P	1								
10585	0	0	10A3	3	30A4	4D4											
10586	7	3	10A4	0	30B4	8C6											
11672	3	0	9A4	0	30C5	0D0	0	42	T-P	1	T-P	1, 37					SELECT ANOTHER CLONE

CATALOG PART II

**PARTIALLY DESCRIBED CLONES
(See flap at the end of this part)**

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10090	A	11	4	AMANA VEN								
10099	H	52	5	BE-2		BRASIL	BELEM					
10100	H	53	3	BE-3		BRASIL	BELEM					
10101	H	54	7	BE-4		BRASIL	BELEM					
10104	H	70	7	CAAG								
10107	A	62	5	CAR-1								
10129	A	7	3	CATONGO URUCUCA		BRASIL						
10137	C	26-27	2	CC-30		COSTA RICA	LIMON	28 HILLAS	3	LA LOLA		1
10138	C	26-27	7	CC-33		COSTA RICA	LIMON	28 HILLAS	3	LA LOLA		1
10156	C	26-27	3	CC-54		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		1
10157	D	65	6	CC-60		COSTA RICA	CARTAGO	TURRIALBA	3	CENTRO DE CACAO		1
10173	E	23	8	CC-124		COSTA RICA	LIMON	28 HILLAS	3	LA LOLA		1
10183	E	22	6	CC-158		COSTA RICA	LIMON	28 HILLAS	3	LA LOLA		1
10187	E	21	6	CC-210		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10194	E	17	4	CC-124		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10196	J	30	4	CC-215		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10197	J	29	5	CC-220		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10198	J	28	5	CC-221		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10199	E	16	8	CC-222		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10200	E	15	8	CC-223		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10210	J	26	5	CC-237		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10213	J	23	4	CC-243		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10216	E	4	7	CC-246		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10218	E	2	2	CC-250		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		
10220	J	22	5	CC-252		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE		

TUA accession number	Pedigree	General										Fruit					Compatibility and resistance				Notes
		Year of description	Month of description	Production	New flush colour	Basic fruit surface colour	ridges	turrows	ridges of ripe fruit	turrows of ripe fruit	Primary furrow depth	Fruit furrow depth	Fruit surface rugosity	Basal constriction	Self-compatibility	References	Phytophthora palmivora	Crimipellis perniciososa	Monilia roleri	Ceratocystis fimbriata	
10090		1980	4	4D6	29E7	0	0	0	0	1	1	2	3								
10099		1980	4	1D7	29C5	0	0	0	0	3	1	3	3								
10100		1980	4	1	6D6	29C4	0	0	0	0	2	2	3	3							
10101		1980	4	9E8	29D8	9	9	3	0	5	3	3	0								
10104		1980	4	7D8	29E8	0	0	0	0	4	2	3	3								
10107		1980	4	10D7	29B3	9	7	6	2	3	3	6	3								
10129		1980	4	1C7	29B9	0	0	0	0	1	1	3	1								
10137	MATINA			8D8											R						
10138	MATINA	1980	4	2	9D8	30B3	0	0	0	0	3	1	3	3		R					
10156	UF-667	1980	4	9D8	30B5	9	7	7	5	7	3	7	2								
10157	UF-668	1980	4	2	7C6	30E6	0	0	0	0	3	2	5	3							
10173	UF-613	1980	4	2	9C6	29D8	9	9	7	5	2	2	3	3							
10183	UF-613	1980	4	7D7	30D6	1	0	0	0	3	5	4	3								
10187	SCA-12	1980	4	8D7	30F8	3	0	1	0	3	2	5	1								
10194	SCA-6	1980	4	2	8D7	29D8	2	0	1	0	3	5	5	2							
10196				5D7																	
10197		1980	4	8C8	29C4	1	1	0	0												
10198																					
10199		1980	4	3	7C6	28E7	0	0	0	0	2	3	5	1							
10200		1980	4	2	9D7	29B3	8	4	4	1	4	8	6	0							
10210		1980	4	8C7	29E8	0	0	0	0	4	3	5	2								
10213		1980	4	2	8D8	30C4	9	7	5	3	2	2	6	0							
10216		1980	4	2D6	30B3	0	0	0	0	4	7	5	6								
10218		1980	4	9E8	29C4	2	2	1	1	2	2	2	0								
10220		1980	4	2	8E7	30C4	9	9	7	7	3	2	4	2							

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10223	J	19	7	CC-255			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10233	B	13	5	CHUA0-24	CHU		VENEZUELA					
10235	H	60	6	CNS-22	CNS.22		VENEZUELA	DIANNAS		2	FINCA CARU NEGRO	
10244	H	68	6	C. SUL-3			BRASIL	AMAZONAS	RIO JURUA	2	HACIENDA GUAJARA	
10246	G	43	9	CU-1 EN SEMI			HONDURAS	CUYAMEL				
10247	H	21	13	CU-1 EN SEMI			HONDURAS	CUYAMEL				
10248	H	45		CU-1			HONDURAS	CUYAMEL				
10249	H	46	1	CU-2			HONDURAS	CUYAMEL				
10250	H	47	3	CU-3			HONDURAS	CUYAMEL				
10252	B	58	9	DR-1			INDONESIA	JAVA				
10253	B	30	3	DR-3B			INDONESIA	JAVA				
10261	D	54	11				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10263	D	55	13	EET-45	SANTA ROSA 23		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	
10274	D	59	9	EET-96	PORVENIR 10		ECUADOR	LOS RIOS	QUEVEJO	2	HAC. EL PORVENIR	1
10284	G	10	14	EET-364	PICHILING. 7682		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	2
10287	D	63	2	EET-390	SEL. CROSS 2166		ECUADOR	LOS RIOS	QUEVEDO	3	PICHILINGUE	2
10292	A	63	11	G-23			INDONESIA	GETAS				
10295	B	60	10	GC-29			JAMAICA					
10298	C	82	15	GS-78			GRENADA					
10307	C	64	7	IAL-325	SIAL-325		BRASIL	BAHIA	BUENAREMA	2	HACIENDA RAMFIN	
10308	C	45	7	IAL-339	SIAL-339		BRASIL	BAHIA				
10310	B	72	2	ICS-1	EET-274		TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	
10312	H	24	10	ICS-8	EET-277		TRINIDAD		RIVER ESTATE	2	HACIENDA PHIPS	
10314	H	26	5	ICS-32			TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	
10319	B	48	9	ICS-45	EET-276		TRINIDAD		RIVER ESTATE	3	IMPERIAL COLLEGE	

TJR accession number	Pedigree	General										Fruit						Compatibility and resistance				Notes
		Year of description	Month of description	Production	New flush colour	Basic fruit surface colour			Anthocyanin intensity in			Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Self-compatibility	References	<i>Phytophthora palmivora</i>	<i>Crinipellis pernicioso</i>	<i>Monilia roleri</i>	<i>Ceratocystis fimbriata</i>	
10223		1980	4	1D7	29E8	0	0	0	0	0	3	2	4	3								DUBIOUS CLONE
10233	CRIOLLO VENEZ.	1980	4	8D7	29C7	9	8	3	2	4	3	6	3									LAST TREE DESCRIBED
10235		1980	4	2	4D7	29B4	0	0	0	0	3	3	5	3								
10244		1980	4		2E7	29B3	8	7	2	1	5	3	4	5								
10246		1980	4	5	7C7	30D7	0	0	0	0	1	1	5	1								
10247		1980	4		1D7	29D6	0	0	0	0	3	3	5	0								
10248		1980	4	1	9E7	30E8	9	9	5	3	2	1	4	3								
10249		1980	4		6D7	30E8	0	0	0	0												
10250		1980	4	2	1D7	30C5	0	0	0	0	2	2	3	1								
10252		1980	4	2	4D5	29C5	9	0	3	0	3	5	7	3			S					
10253					1D8																	
10261		1980	4	7	9D8	29C4	9	9	5	2	5	4	4	1	+	11,22,41	S	S				SAME AS 10232
10263		1980	4	3	8E7	30F8	0	0	0	0	5	5	6	0								
10274		1980	4	2	6C6	30D4	2	0	0	0	6	3	5	1	+	41,43	S	S	T-R			GOOD COMB. ABILITY
10284		1980	4		8D8	29E7	0	0	0	0	4	5	5	3								
10287	EET-238 X SCA-12	1980	4	1	5A6	29E8	0	0	0	0	5	3	4	0								
10292		1980	4		6D7	29E7	0	0	0	0	3	3	5	2								
10295		1980	6	3	5D6	29E8	0	0	0	0	5	5	6	2								
10298		1980	4	1	6D7	29E8	0	0	0	0	2	2	4	0								DUBIOUS CLONE
10307		1980	4		7D8	30E8	0	0	0	0	3	2	5	5								
10308		1980	4		8E7	30E7	0	0	0	0	1	1	3	0								
10310		1980	4		8D8																	
10312		1980	4	1	7D7	30E7	0	0	0	0	3	3	4	0	+	10,22,41	S	S	T			
10314					1B6																	
10319		1980	4	5	3E7	29D8	0	0	0	0	2	3	3	2	+	30						T R

General												
TUR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10320	B	50	10	ICS-46		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10322	B	49	10	ICS-47		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10327	B	37	5	ICS-84		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10328	B	53	6	ICS-91		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10330	B	69	10	ICS-138		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10332	B	75	5	ICS-135		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10336	C	80	9	ICS-98		TRINIDAD			RIVER ESTATE	3	IMPERIAL COLLEGE	
10340	B	71	13	IMC-67	EET-116	PERU			IQUITOS			
10342	H	65	5	IQ-1		PERU			IQUITOS			
10347	B	63	9	LAFI-7		SAMOA						
10348	H	62	8	LF-1		COSTA RICA	ALAJUELA		SAN CARLOS	1	LA FORTUNA	
10349	H	63	4	LF-2		COSTA RICA	ALAJUELA		SAN CARLOS	1	LA FORTUNA	
10350	H	64	6	LF-3		COSTA RICA	ALAJUELA		SAN CARLOS	1	LA FORTUNA	
10357	A	75	13	MEX-5		MEXICO	CHIAPAS					
10361	A	71	8	MEX-11		MEXICO	CHIAPAS					
10362	A	70	8	MEX-12		MEXICO	CHIAPAS					
10363	A	68	7	MEX-14		MEXICO	CHIAPAS					
10369	H	44	1	MT-1		HONDURAS	MONTES					
10375	C	60	8	P-8		PERU						
10377	H	29	3	P-11		PERU						
10378	J	8	8	P-12		PERU						
10384	B	81	4	P-22		PERU						
10386	B	79	8	P-43		PERU						
10394	A	9	12	PARA		BRASIL	BAHIA		ITABUNA	3	CEPEC	
10404	H	48	4	PV-2	VLA-102	VENEZUELA	MARACAIBO		RIO CATATUMBO	2	PRIVATE FARM	

TUR accession number	Pedigree	General										Fruit						Compatibility and resistance				Notes
		Year of description	Month of description	Production	New flush colour	Basic fruit surface colour	Ridges	Furrows	Ridges of ripe fruit	Furrows of ripe fruit	Anthocyanin intensity in fruit	Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Self-compatibility	References	Phytophthora palmivora	Crimpeilia perniciosa	Monilia roreni	Ceratocystis fimbriata	
10320		1980	4	3	3D7	30D7	6	0	3	0	4	3	7	0								
10322		1980	4		2E7	29D8	0	0	0	0	6	7	7	1							2ND. TREE IS CLONE	
10327		1980	4		5D6	29C4	0	0	0	0	5	3	5	0	0	32		5			DUBIOUS CLONE	
10320		1980	4	1	5D7	29C5	9	9	5	0	5	5	7	0			T-R					
10330	ICS-6 X SCA-12	1980	4		5D7	30C4	0	0	0	0	5	7	8	3							DUBIOUS CLONE	
10332	ICS-6 X SCA-6	1980	4		1D7	30B4	0	0	0	0	3	5	5	0								
10336		1980	4		6C7	29E0	0	0	0	0	3	3	5	1	+	30,41,42	T-R	5	1		GOOD COMP. ABILITY	
10340		1980	4	3	7D0	29E8	0	0	0	0	3	5	5	0								
10342		1980	4		5D6	29E8	0	0	0	0	5	3	5	5								
10347		1980	4		1D8	29C4	1	0	0	0	3	3	4	2			T-R					
10348		1980	4		4E8	30D8	2	0	0	0	3	3	5	1								
10349					2B6																	
10350					4D6																	
10357		1980	4			28E7	0	0	0	0	2	1	6	0								
10361																						
10362		1980	4		5D7	28E6	0	0	0	0	2	0	6	5								
10363																						
10369					6E8																	
10375		1980	4		9E7	29C3	8	5	2	1	3	5	6	0								
10377					7D7																	
10378		1980	4	2	3C7	29E8	0	0	0	0	4	4	3	2	0	42,44						
10384		1980	4		3D7	29B3	2	2	0	0	4	6	7	5								
10386		1980	4	1	3D7	30D7	1	0	0	0	7	5	6	1							TREE 7 DESCRIBED	
10394		1980	4		8C7	29C4	0	0	0	0	1	1	3	2								
10404					1D7																	

General												
TUFR	Accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10413	H	51	2	PV-6			VENEZUELA	MARACAIBO	RIO CATATUMBU	2	PRIVATE FARM	
10416	C	33	3	R-6	6R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10423	C	40	8	R-21	21R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10424	C	41	8	R-23	23R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10425	C	42	6	R-24	24R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10426	C	43	6	R-30	30R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10427	C	44	7	R-39	39R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10428	B	65	6	R-41	41R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10429	C	45	4	R-43	43R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10430	C	46	10	R-44	44R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10431	C	47	3	R-48	48R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10432	C	48	7	R-52	52R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10433	C	49	8	R-56	56R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10434	B	82	7	R-68	68R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10437	C	54	4	R-100	100R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10440	C	55	9	R-101	101R		MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10442	C	57	10	R-106			MEXICO	CHIAPAS	TUXTLACHICO	2	HACIENDA LA RIOJA	
10445	H	56	8	RB-29			BRASIL	RIO BRANCO	XAPURI-ACRE	2		
10446	G	39	10	RB-29			BRASIL	RIO BRANCO	ACRE	2	CARRETERA A XAPURI	
10451	H	58	4	RB-43			BRASIL	RIO BRANCO	CHICO PEDRO	2		
10453	H	59	3	RB-47			BRASIL	RIO BRANCO		2	COL. GABINO VISORO	
10454	G	45	6	RB-49			BRASIL	RIO BRANCO		2	COL. GABINO VISORO	
10459	C	68	3	SC-13			COLOMBIA	VALLE	PALMIRA			
10460	C	69	5	SC-24			COLOMBIA	VALLE	PALMIRA			
10461	C	70	5	SC-49			COLOMBIA	VALLE	PALMIRA			

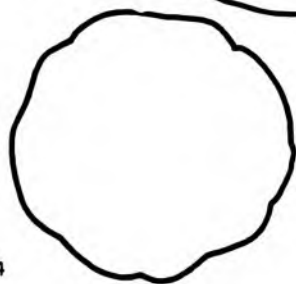
TUR accession number	Pedigree	General				Fruit								Compatibility and resistance				Notes		
		Year of description	Month of description	Production	New flush colour	Basic fruit surface colour	ridges	furrows	ridges of ripe fruit	furrows of ripe fruit	Primary furrow depth	Fruit surface depth	Fruit surface rugosity	Basal constriction	Self-compatibility	References	Phytophthora palmivora		Crinipellis perniciosa	Monilia roreni
10413				9D7																
10416		1980	4	8D8	29C4	9	7	5	2	4	4	7	3							
10423		1980	4	5D7	29C4	0	0	0	0	4	5	7	1							
10424		1980	4	7C6	29C4	7	4	3	1	3	5	7	1							
10425		1980	4	7C6	29C4	0	0	0	0	3	4	7	3							
10426		1980	4	7E7											S		S			
10427		1980	4	8D7	29C4	7	4	3	2	3	5	7	3							
10428		1980	4	6E8	30B4	2	2	0	0	3	5	7	3							
10429		1980	4	7D7	29C4	0	0	0	0	3	5	7	3							
10430		1980	4	4C7	29C4	0	0	0	0	3	3	5	0							
10431		1980	4	8C7	29C4	7	2	5	0	3	5	7	2		S		S			
10432		1980	4	4C5	29C4	0	0	0	0	4	5	6	3							
10433		1980	4	5C6	29C4	2	1	0	0	4	5	6	3							
10434		1980	4	6D7	29C5	3	0	0	0	3	3	3	3							INCLUDES PENTAGONA
10439		1980	4	7D7	29C4	8	7	5	3	3	5	6	3							
10440		1980	4	4D7	29C4	9	8	5	4	5	5	7	1							
10442		1980	4	5	1E8	29C4	0	0	0	0	3	4	7	3						
10445				9C7																
10446		1980	4	1	8D7	29D5	0	0	0	0	3	1	3	3						
10451				1D7																
10453		1980	4	6D8	29E8	0	0	0	0	2	3	5	3							
10454		1980	4	1	6D7	30C4	0	0	0	0	3	3	5	0						
10459				9E7																
10460		1980	4	5D7	29E8	0	0	0	0	1	1	4	3	+						41,44
10461		1980	4	5	4D7	29C4	0	0	0	0	3	4	5	1	+					44

General												
TUR	accession number	Field plot	Row number	Tree number	Accession name	Synonyms	Country of origin	Political subdivision of origin	Locality of origin	Collecting source	Name of collecting source	Type of pollination
10462	C	71	7	SC-51			COLOMBIA	VALLE	PALMIRA			
10463	B	40	9	SCA-6	EET-11		ECUADOR			2	HACIENDA ESCAVINA	
10470	A	5	1	SGU-63			GUATEMALA					
10476	A	6	8	SGU-84			GUATEMALA					
10485	H	39	5	SIAL-169			BRASIL	BAHIA	JUCARI	3	INST. AGR. DO LESTE	
10503	H	23	11	SM-2			BRASIL	SAO THOME	SAO MANDEL			
10505	B	24	8	SIA-4			COLOMBIA	VALLE	PALMIRA			
10513	B	64	7	STICA-100	STI-100		COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
10528	C	78	11	TSHN-812	TSH-812		TRINIDAD					
10539	D	39	12	UF-36			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10556	H	71	8	UF-613	EET-4		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10561	D	51	15	UF-667	EET-281		COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10580	H	13	9	UF-719			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
10582	H	15	7	UF-716			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	
12871	C	75	11				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
12872	D	42	10				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	I
12873	D	45	6				COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
12874	J	10	9	CC-182			COSTA RICA	CARTAGO	TURRIALBA	3	CATIE	
12875	H	4	12	UF-704			COSTA RICA	LIMON	ZENT	2	UNITED FRUIT CO.	

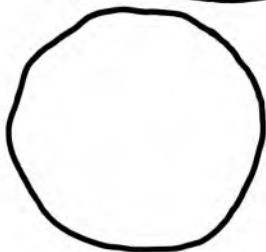
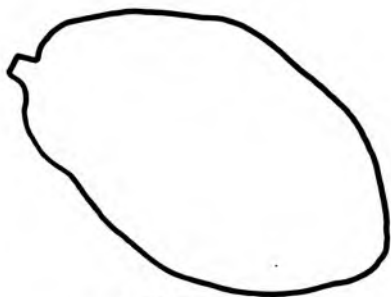
TUR accession number	Pedigree	General										Fruit						Compatibility and resistance				Notes
		Year of description	Month of description	Production	New flush colour	Basic fruit surface colour				Anthocyanin intensity in		Primary furrow depth	Fruit surface rugosity	Fruit apex form	Basal constriction	Self-compatibility	References	<i>Phytophthora palmivora</i>	<i>Crinipellis perniciosa</i>	<i>Monilia roleri</i>	<i>Ceratocystis fimbriata</i>	
						ridges	furrows	ridges of ripe fruit	furrows of ripe fruit	1	2											
10462		1980	4	3D5	29E8	9	7	4	3	3	2	5	3	0	22, 44							
10463		1980	4	7E8	29E8	0	0	0	0	3	3	3	1		I-R							
10470	MATINA X CRIOLLO	1980	4	7C5	29E3	2	0	0	0	2	5	7	0									
10476	MATINA X CRIOLLO	1980	4	4D8	29E3	0	0	0	0	2	2	4	2									
10485		1980	4	1	8D8	29C4	0	0	0	0	2	1	3	3	+ 43							
10503		1980	4		8D7	30D8	9	9	4	3	2	2	5	3								
10505		1980	4		8C7	29D8	2	0	0	0	2	2	5	0								
10513		1980	4		8D7	30E8	0	0	0	0	5	6	9	0								
10528		1980	4		9C6	29C4	9	9	5	3	5	2	5	2								
10539					3E7																	
10556		1980	4	3	9D7	28E7	9	9	6	5	3	2	5	3								
10561		1980	4	3	8C7	30E8	0	0	0	0	4	5	5	2								
10580		1980	4	1	7D7	29D8	9	9	5	4	3	2	3	0								
10582		1980	4	1	5C6	29D7	0	0	0	0	4	3	5	3								
12871		1980	4	5	7C6	29D4	0	0	0	0	3	5	5	7								
12872		1980	4	5	9E7	29E8	9	9	7	5	4	3	3	1								
12873		1980	4		7D8	30C6	0	0	0	0	4	3	4	3								
12874		1980	4		8D8	30E8	0	0	0	0	3	3	4	3								
12875		1980	4	2	7C7	28C4	9	7	4	3	5	5	5	2								

This flap can be unfolded and allows comparison of individual clonal data with the overall magnitudes

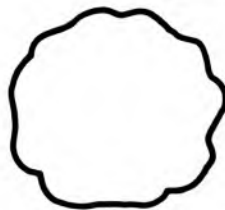
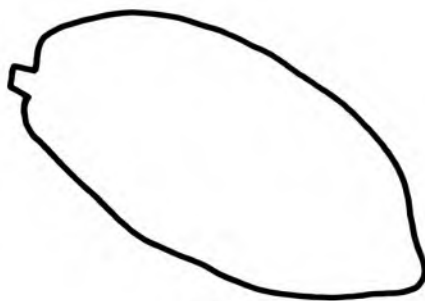
DRAWINGS



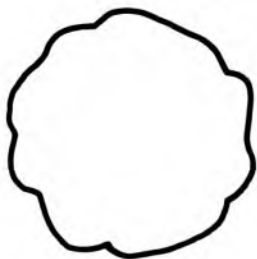
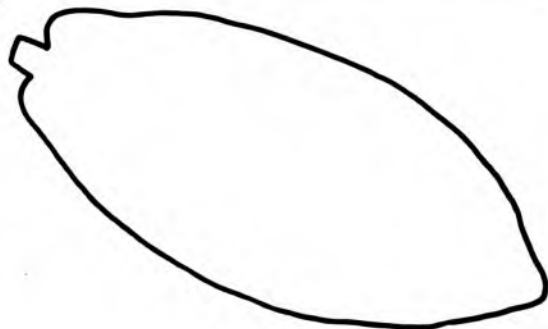
APA - 4
10091



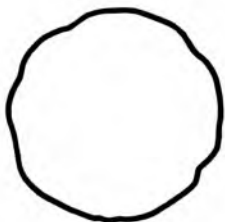
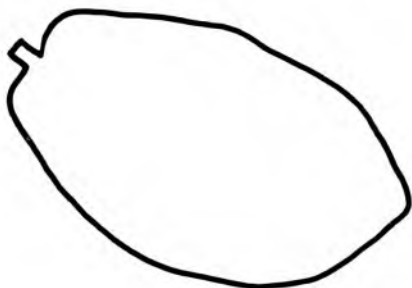
APA - 5
10092



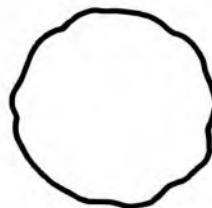
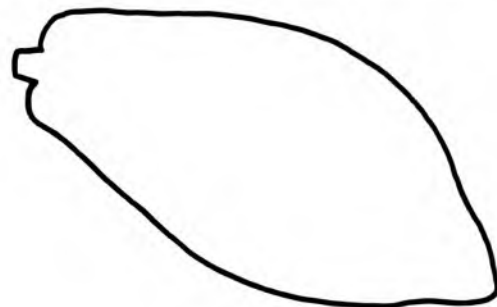
BE - 10
10102



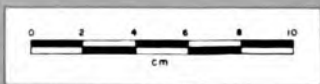
BS - 2
10103

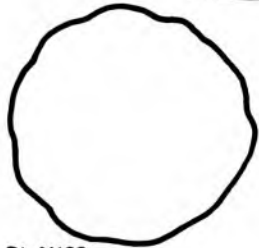
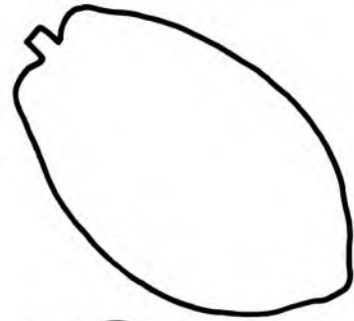


CAS - 1
10108

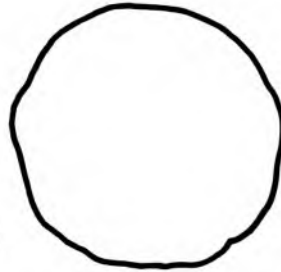
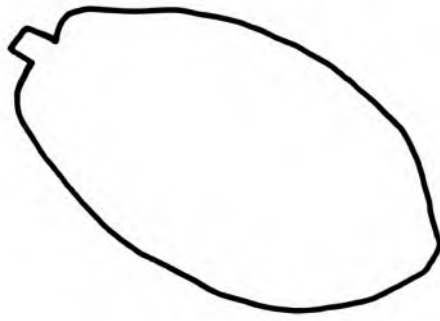


CAS - 3
10109

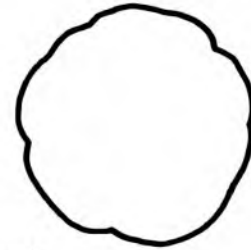
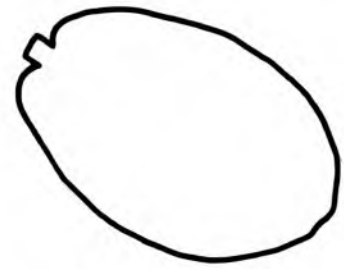




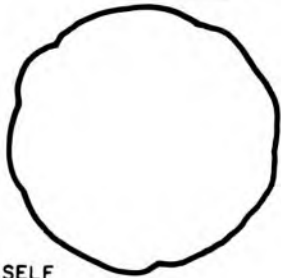
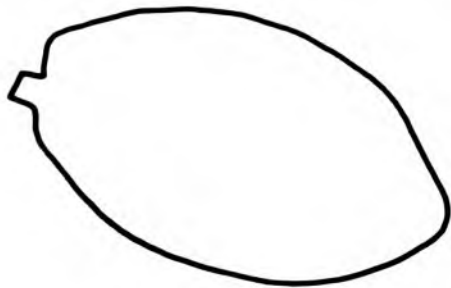
CATONGO BLANCO
10113



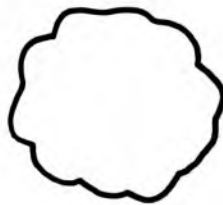
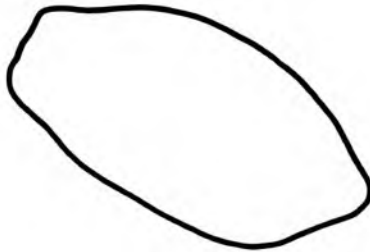
CATONGO BLANCO
10114



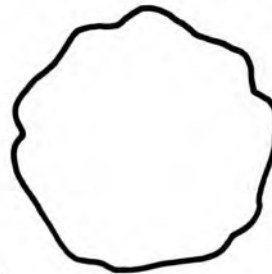
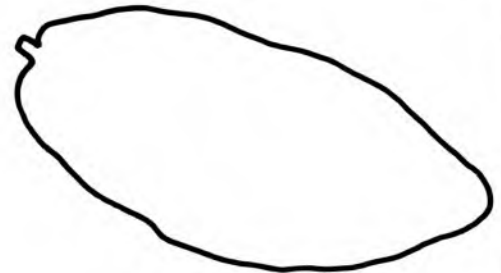
CATONGO - O
10125



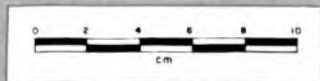
CATONGO x SELF
10128

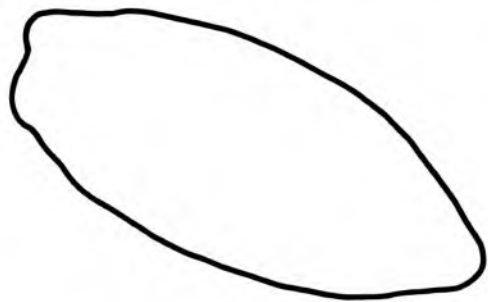


CC-9
10132

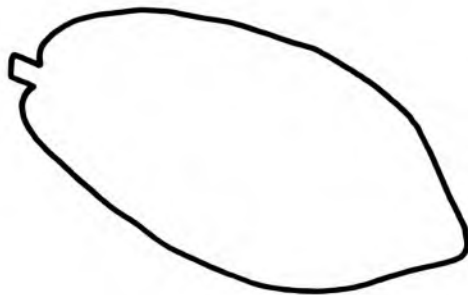


CC-10
10133

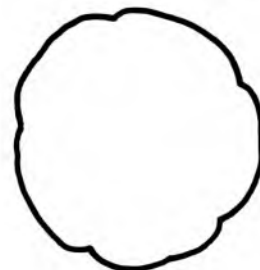
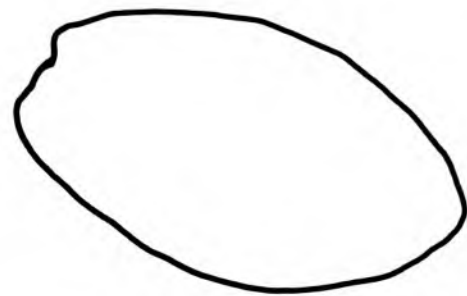




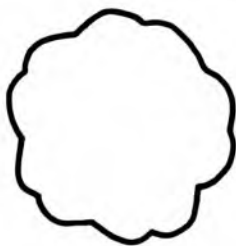
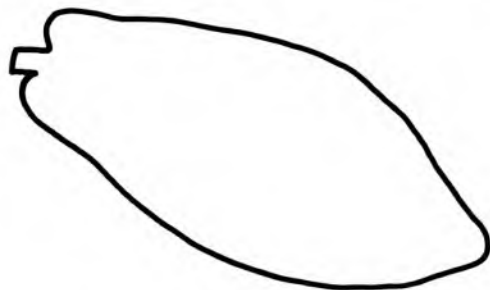
CC-17
10134



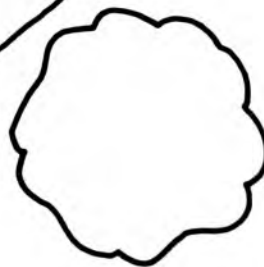
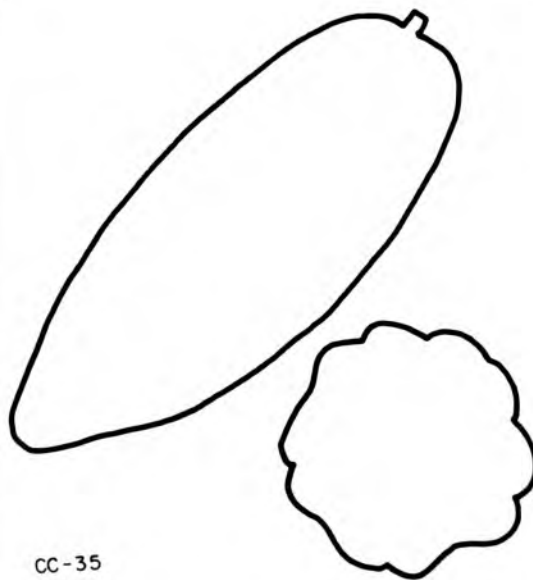
CC-18
10135



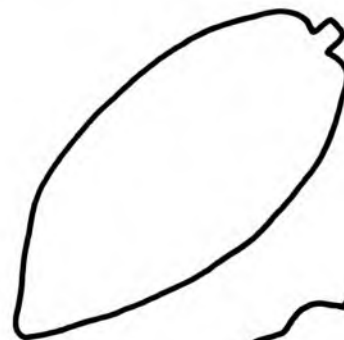
CC-27
10136



CC-34
10139

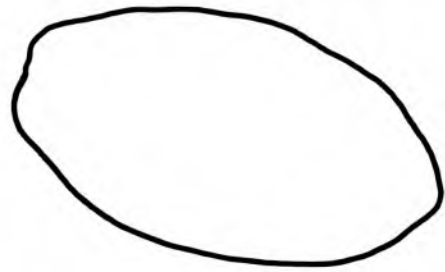


CC-35
10140

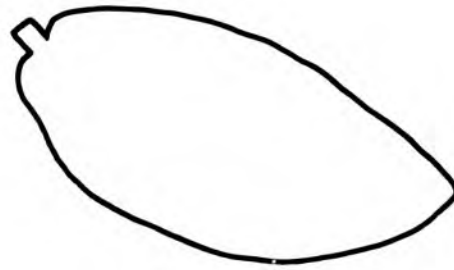
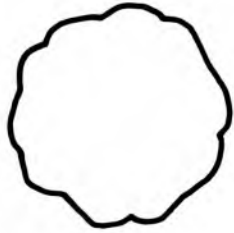


CC-37
10142

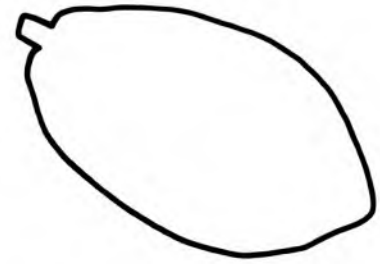
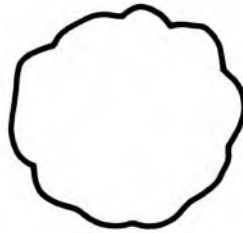




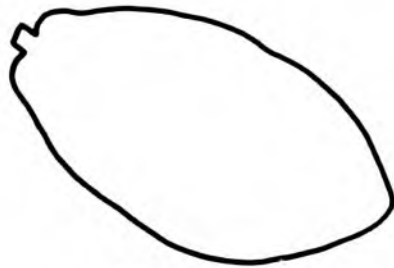
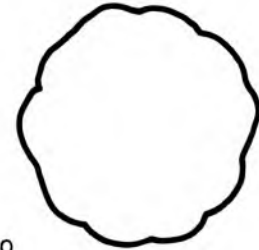
CC-38
IO143



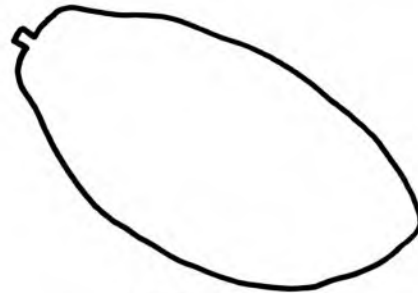
CC-39
IO144



CC-40
IO145



CC-41
IO146

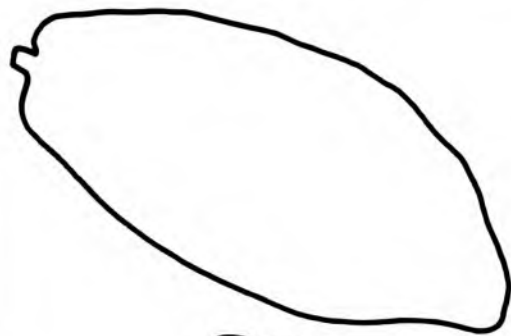


CC-42
IO147

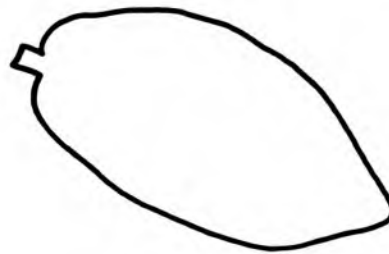
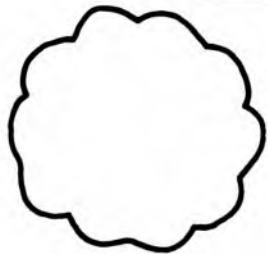


CC-43
IO148

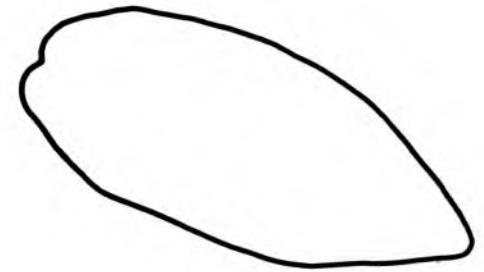
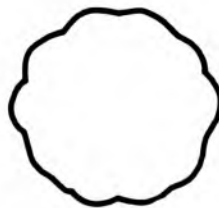




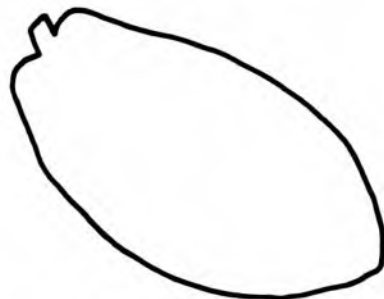
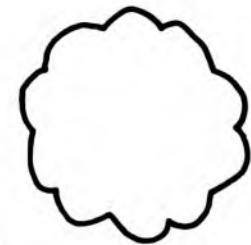
CC-44
10149



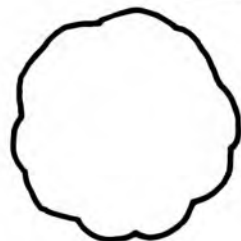
CC-45
10150



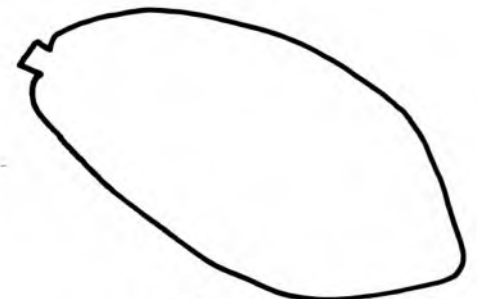
CC-46
10151



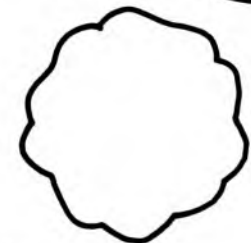
CC-47
10152

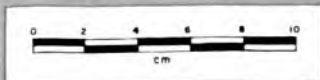
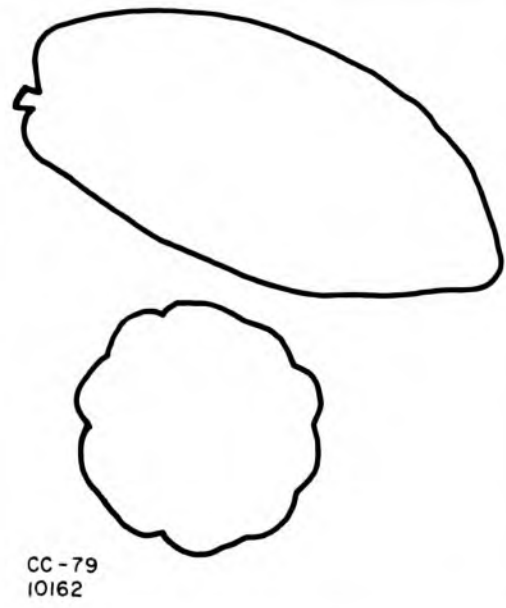
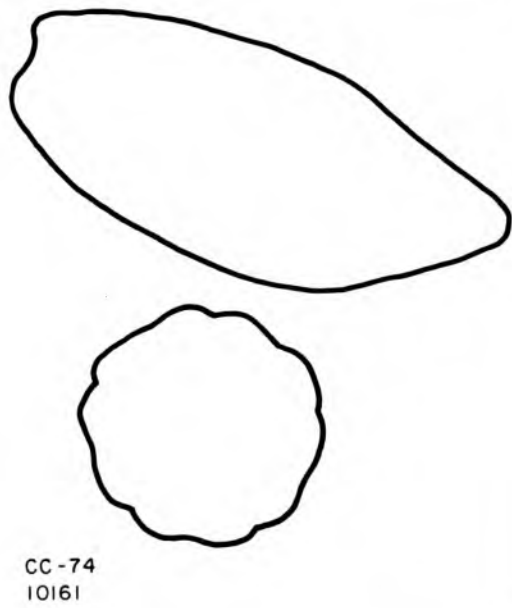
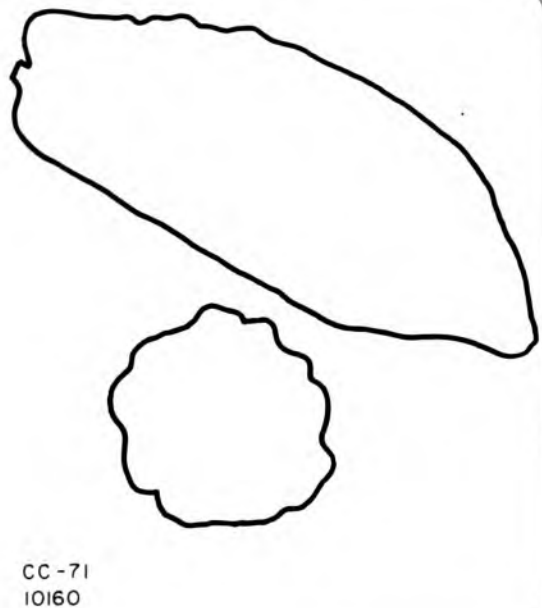
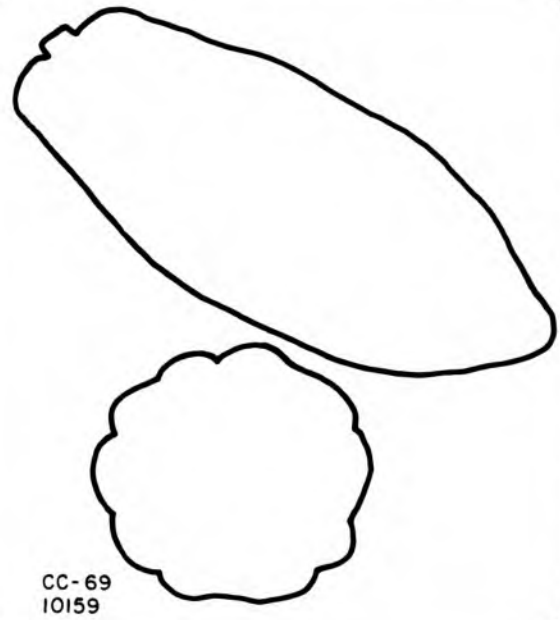
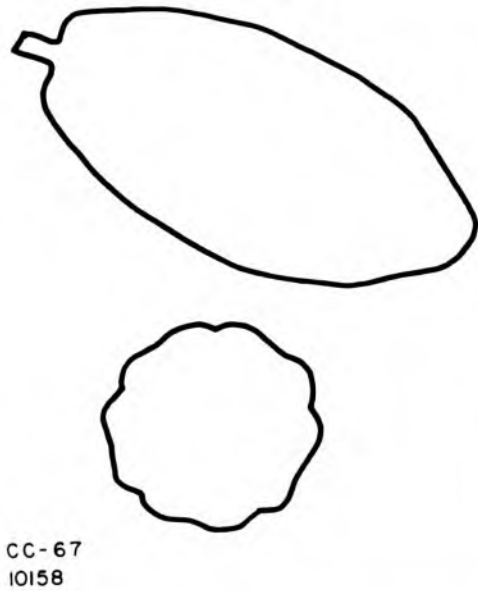
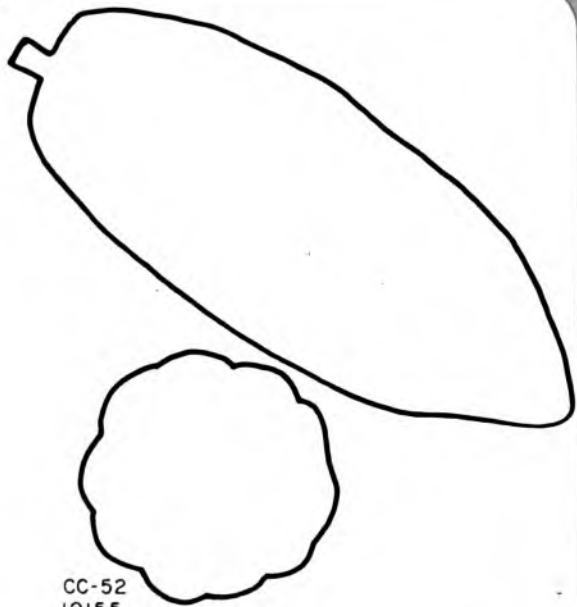


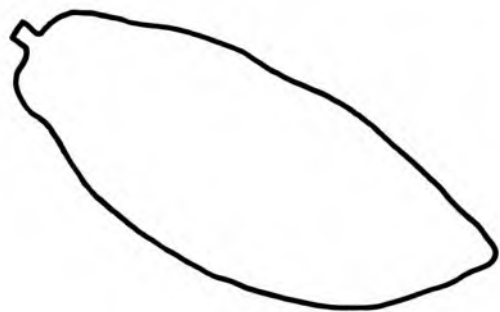
CC-48
10153



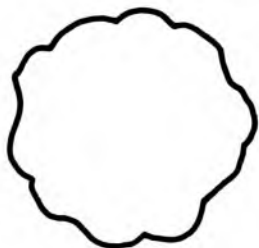
CC-49
10154



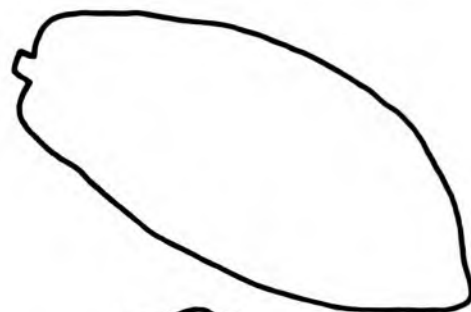




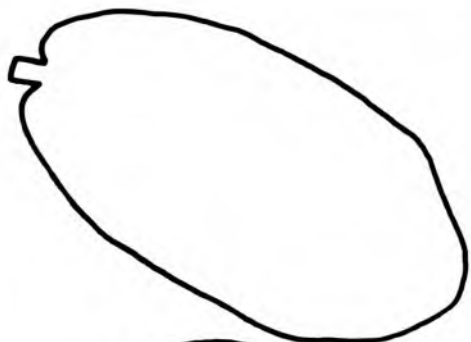
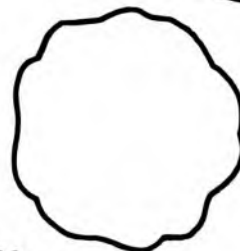
CC-83
10163



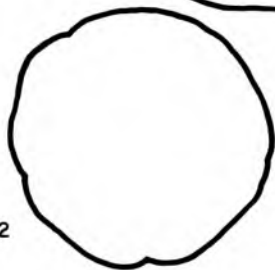
CC-99
10164



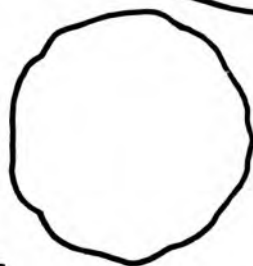
CC-100
10165



CC-102
10166

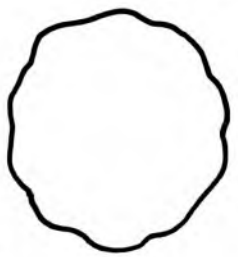
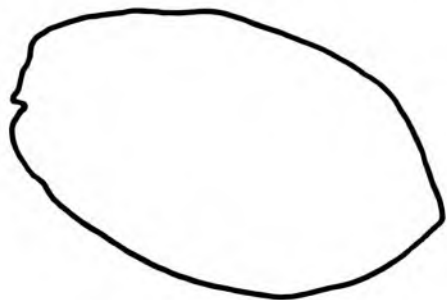


CC-103
10167

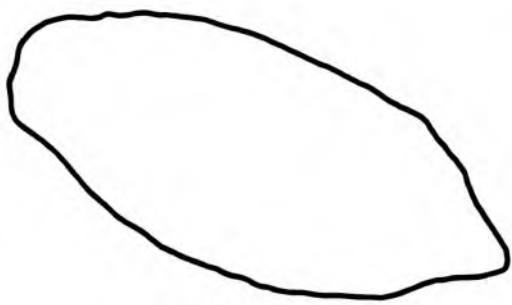


CC-106
10168

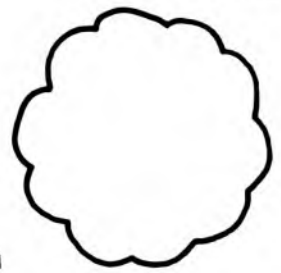
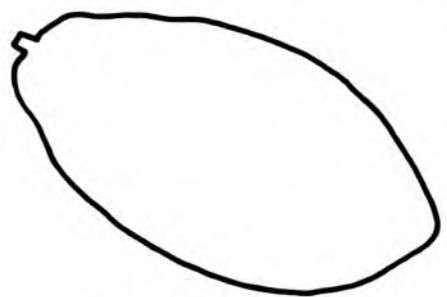




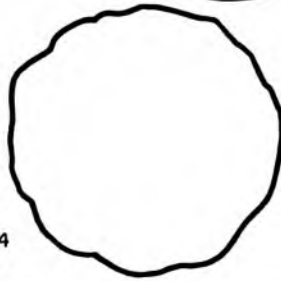
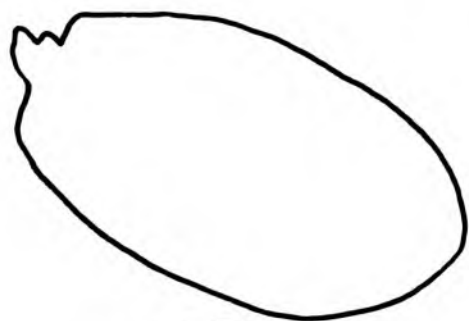
CC-107
10169



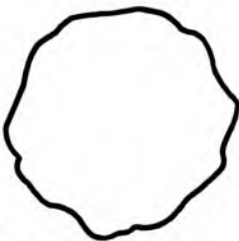
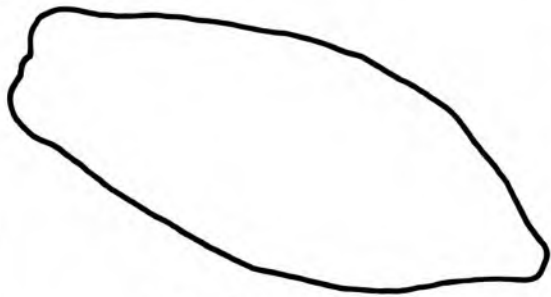
CC-120
10170



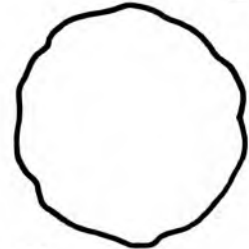
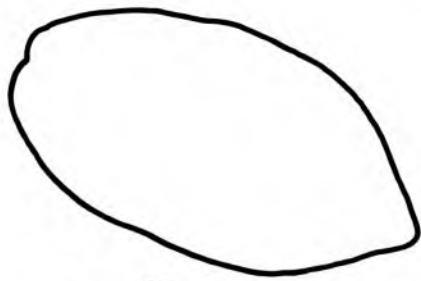
CC-121
10171



CC-124
10172

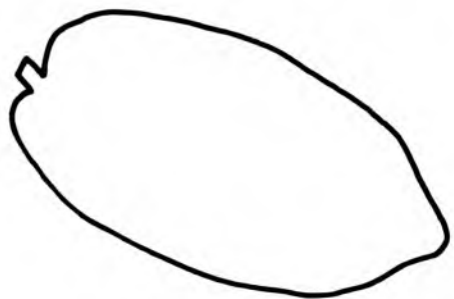


CC-132
10175

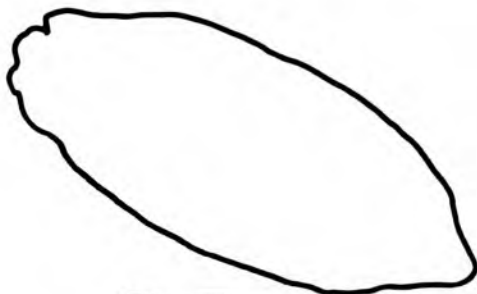
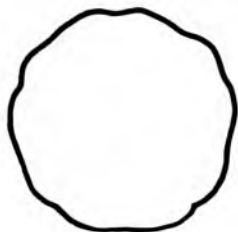


CC-137
10177

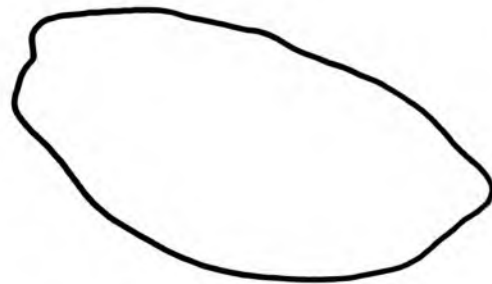
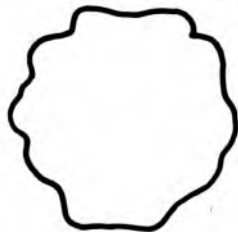




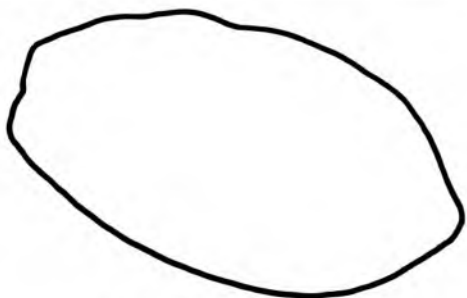
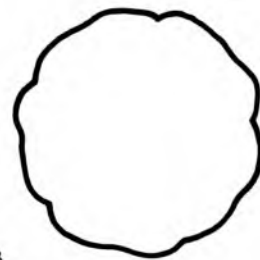
CC-138
10178



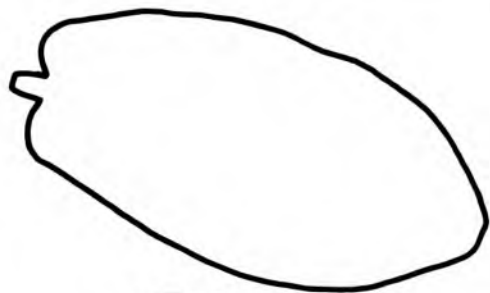
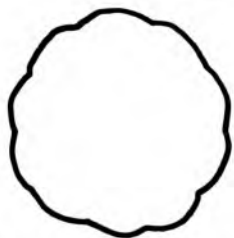
CC-139
10179



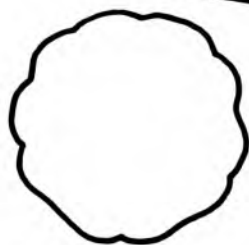
CC-143
10180



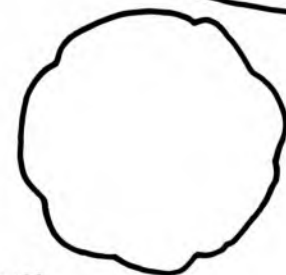
CC-144
10181

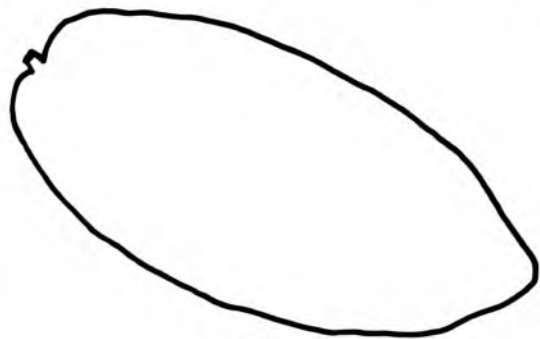


CC-152
10182

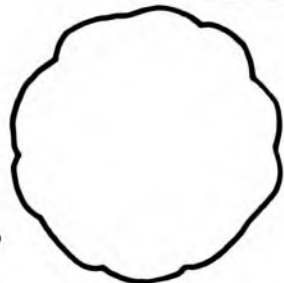


CC-169
10184

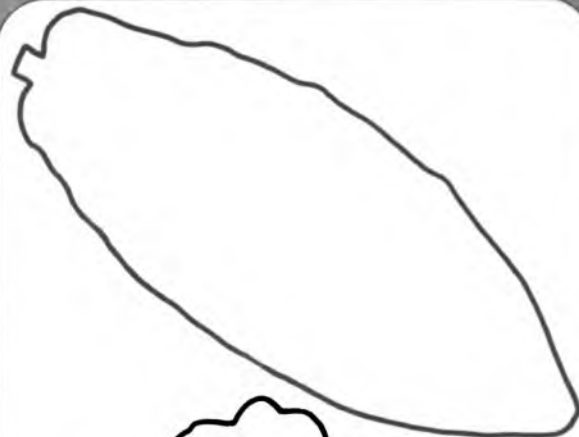
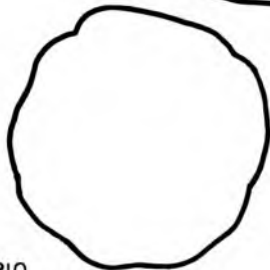




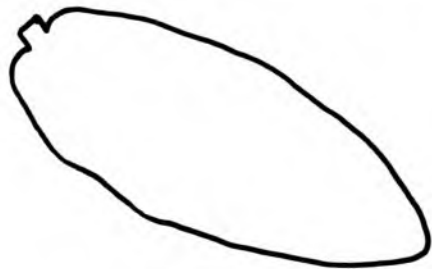
CC - 173
10185



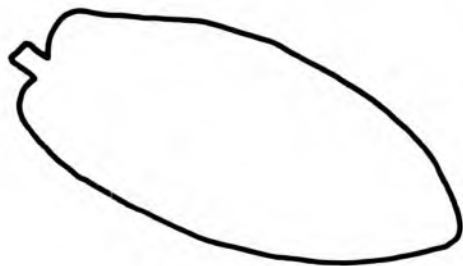
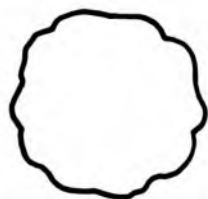
CC - 210
10186



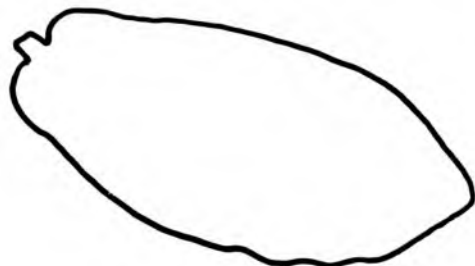
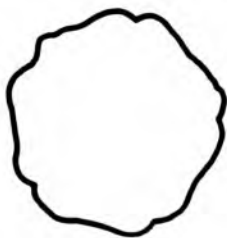
CC - 211
10188



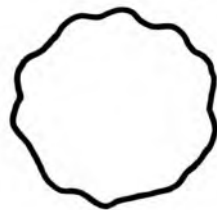
CC - 211
10189

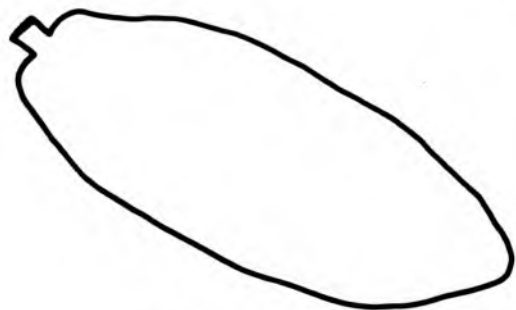


CC - 212
10190

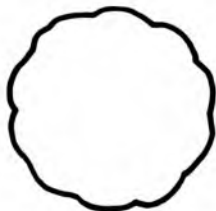
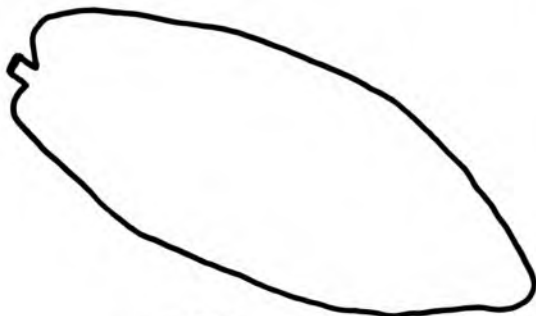


CC - 212
10191

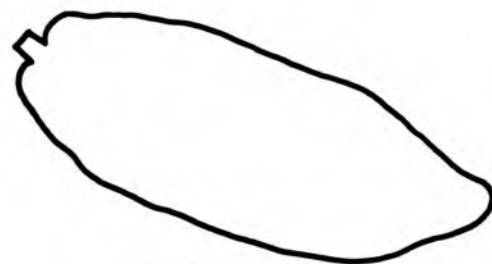




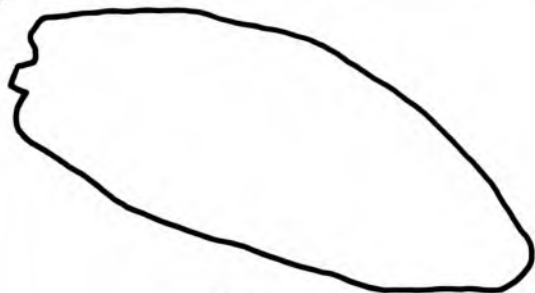
CC-213
10192



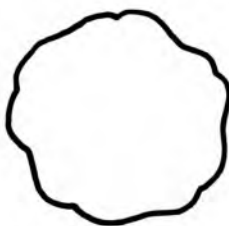
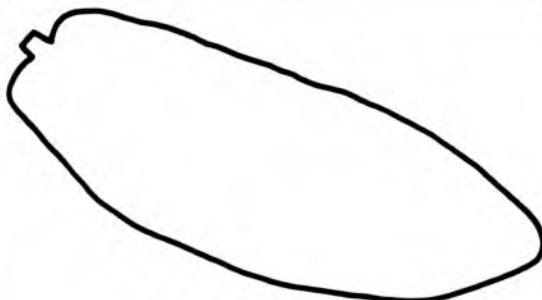
CC-213
10193



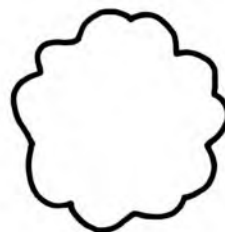
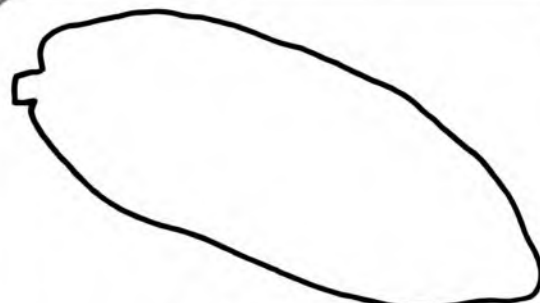
CC-215
10195



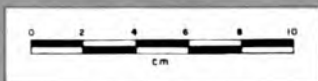
CC-224
10201

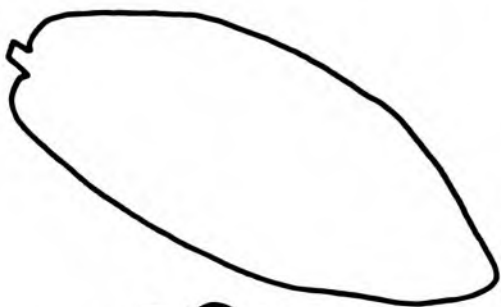


CC-225
10202



CC-226
10203

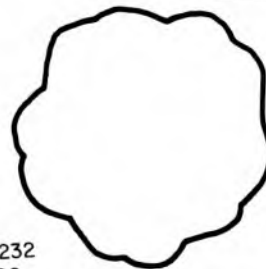
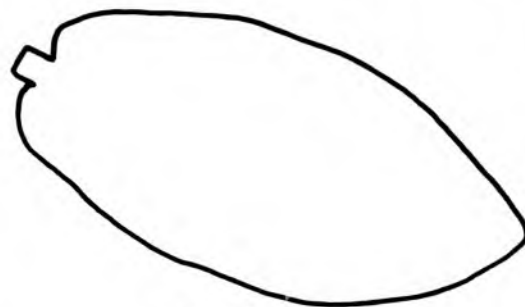




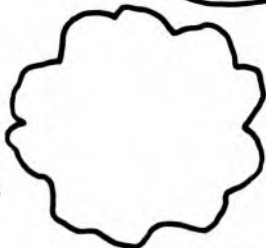
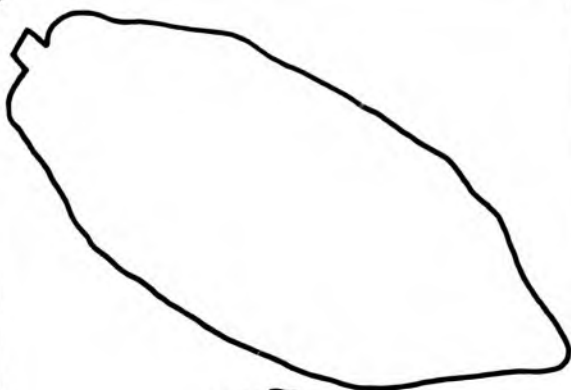
CC - 228
10204



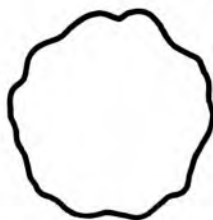
CC-231
10205



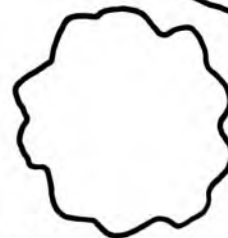
CC-232
10206



CC - 234
10207

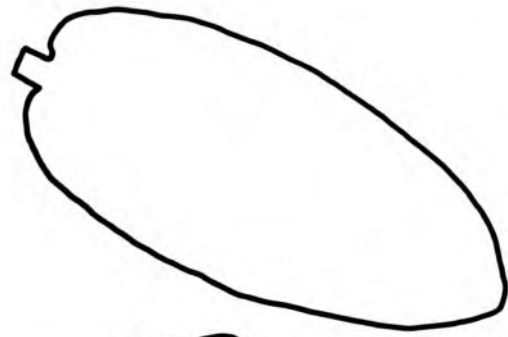


CC-235
10208



CC-236
10209





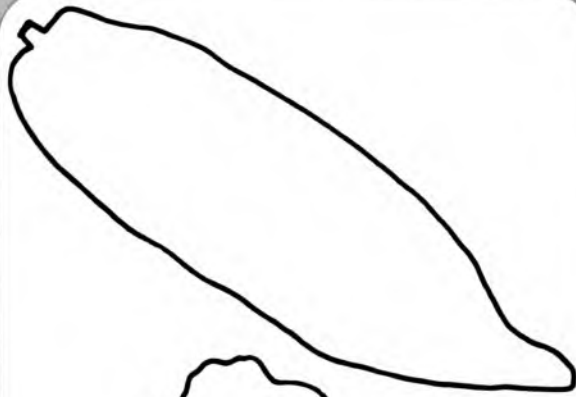
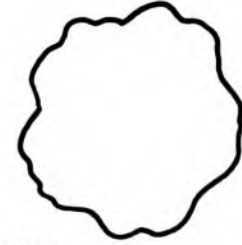
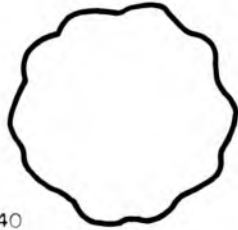
CC-240
10211



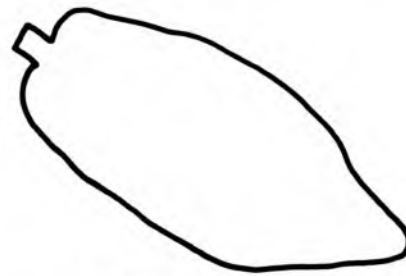
CC-241
10212



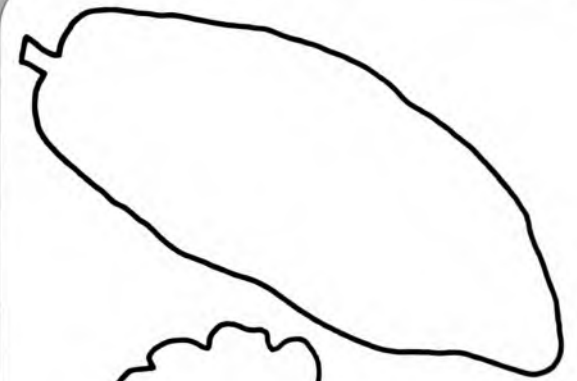
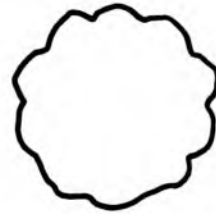
CC-244
10214



CC-245
10215



CC-249
10217



CC-251
10219





CC-253
10221



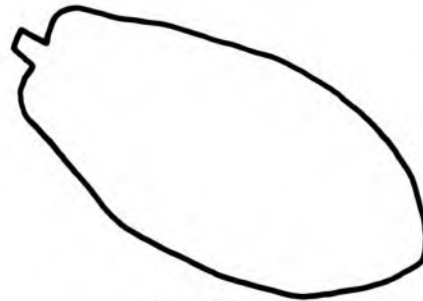
CC-254
10222



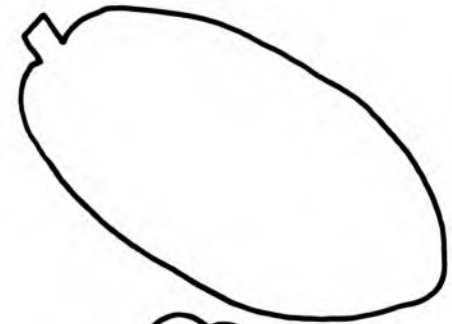
CC-256
10224



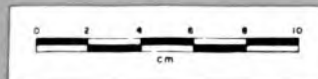
CC-257
10225

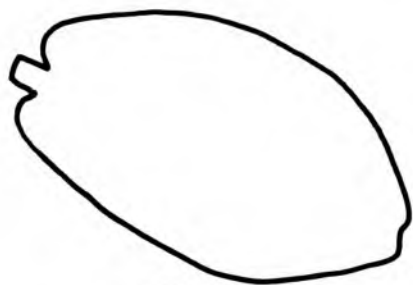


CC-258
10226

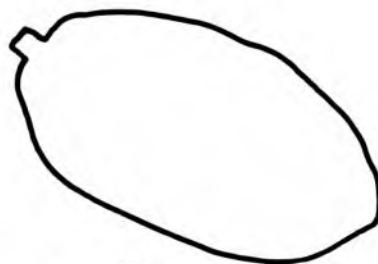


CC-259
10227

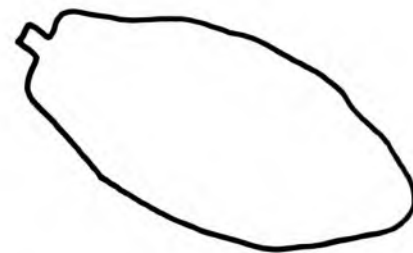
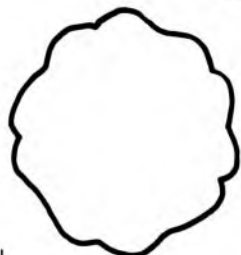




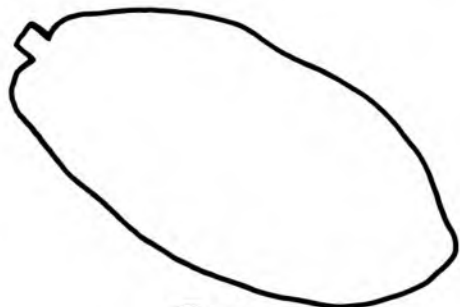
CC-260
10228



CC-261
10229



CC-262
10230



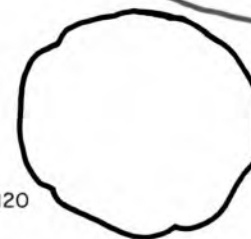
CC-263
10231

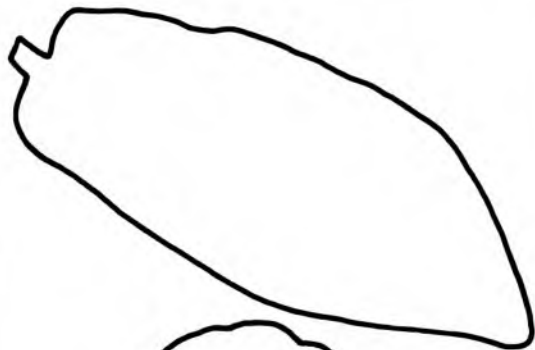


CC-264
10232

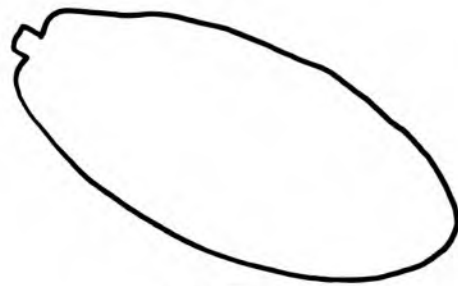
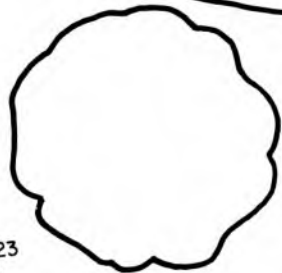


CHUAO-120
10234

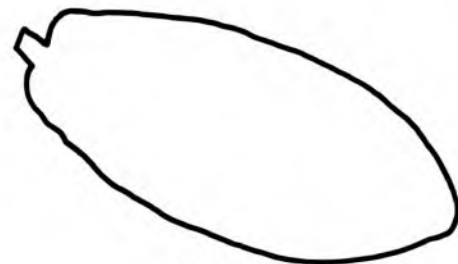




CNS-23
10236



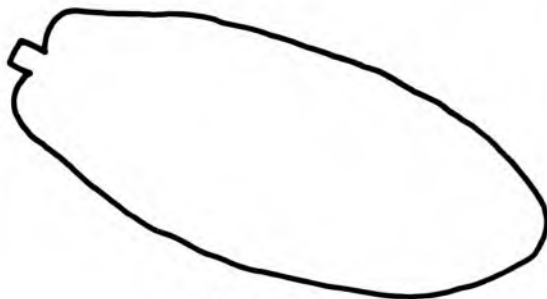
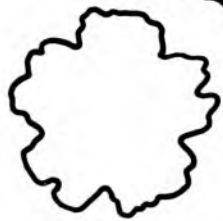
COMUN TIPICO
10237



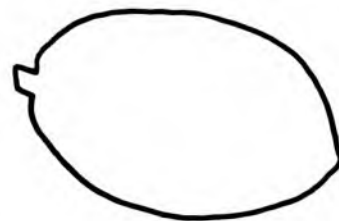
C.SUL-3
10243



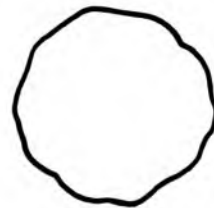
C.SUL-7
10245

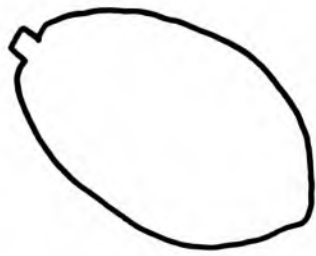


DIAMANTES-800
10251

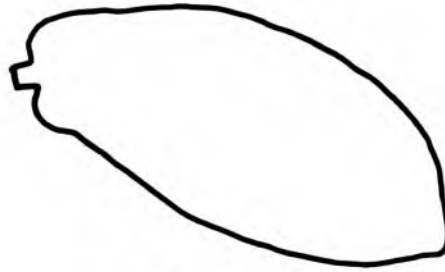
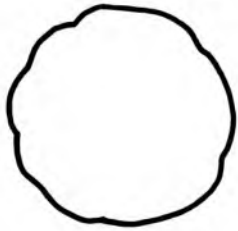


EEG-25
10254

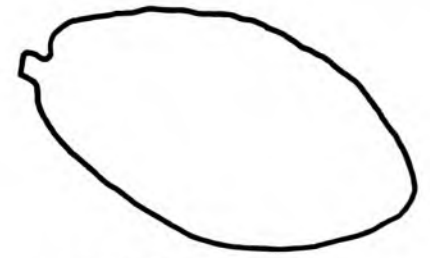
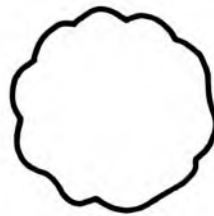




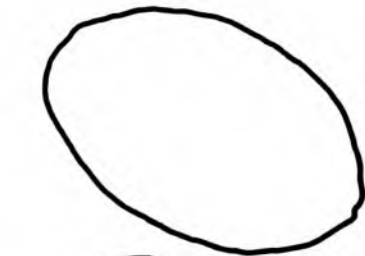
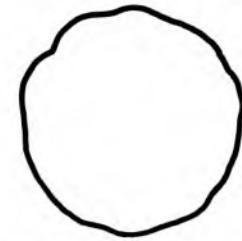
EEG-27
10255



EEG-29
10256



EEG-48
10257



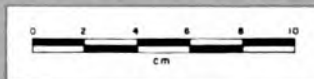
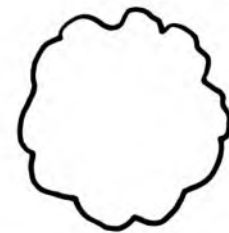
EEG-64
10258

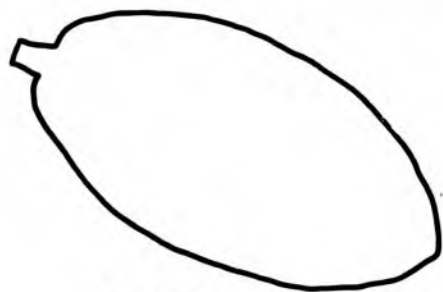


EEG-65
10259

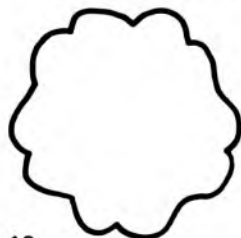
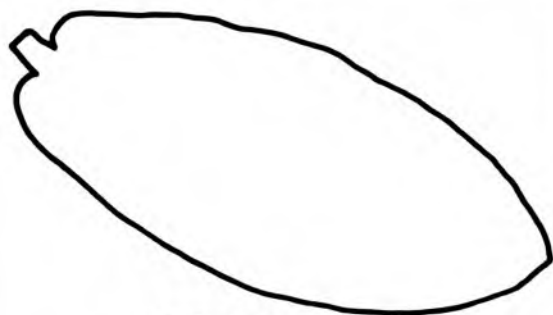


EET-12
10260





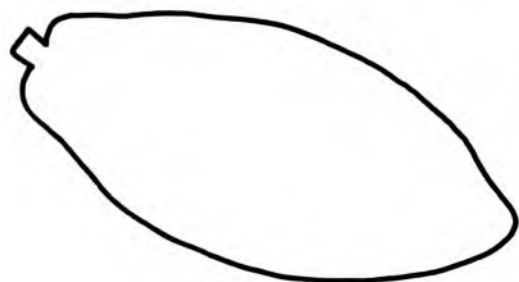
EET-41
10262



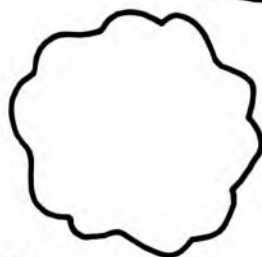
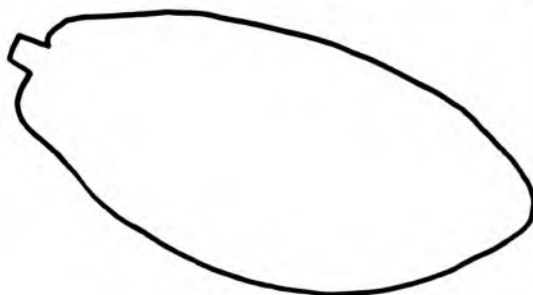
EET-48
10264



EET-53
10265



EET-59
10266



EET-62
10267

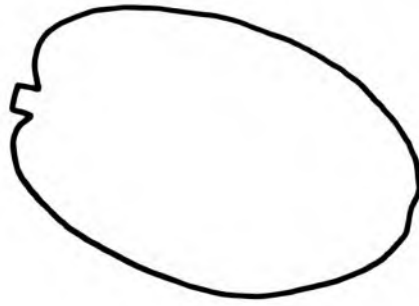


EET-64
10268

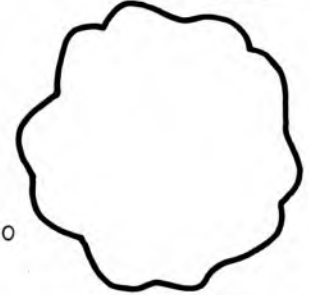
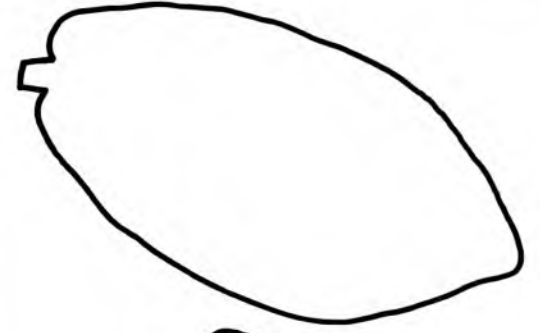




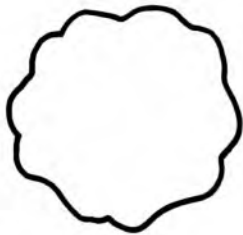
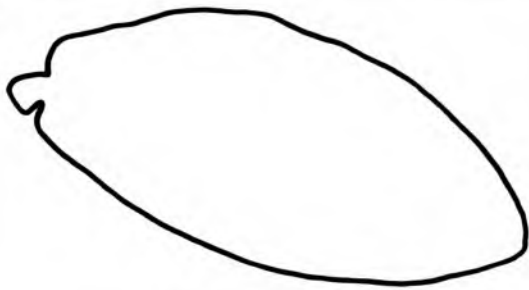
EET-67
10269



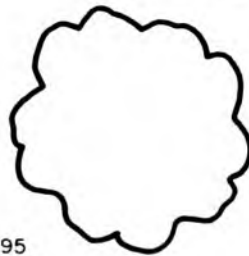
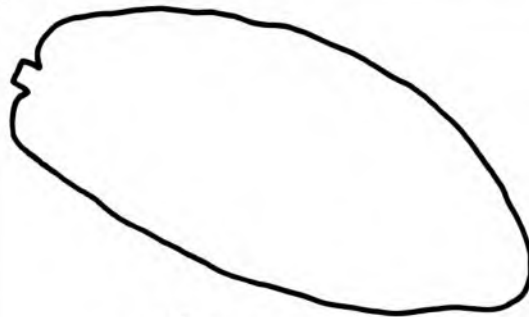
EET-75
10270



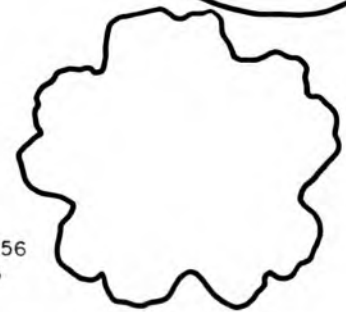
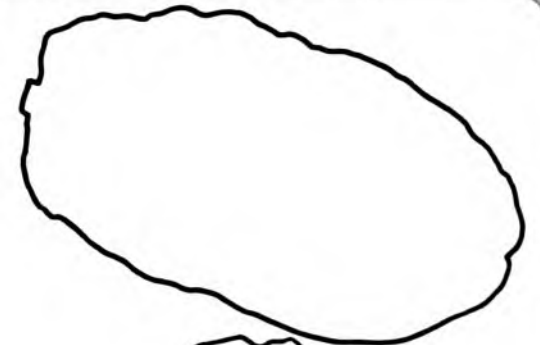
EET-80
10271



EET-94
10272

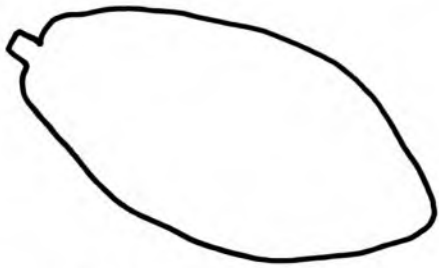


EET-95
10273

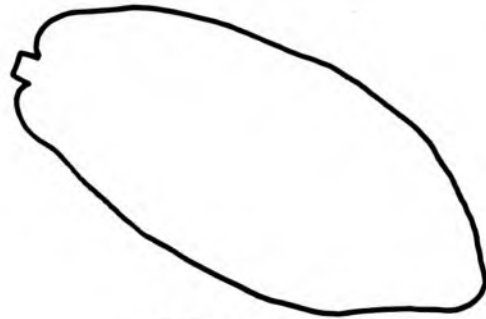
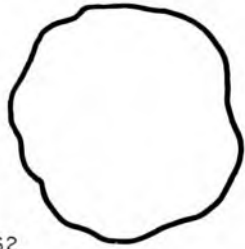


EET-156
10275





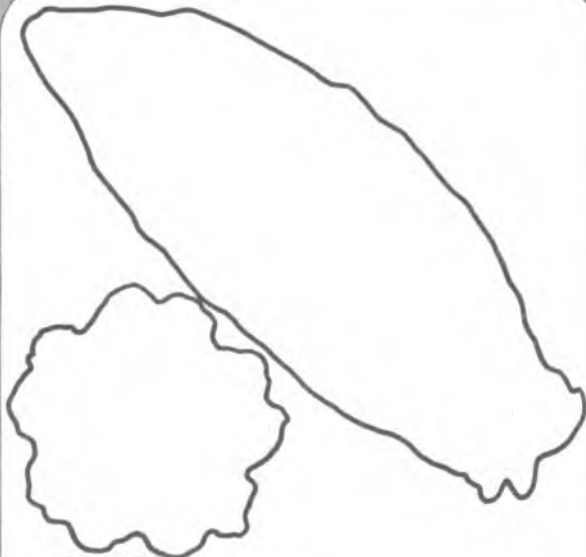
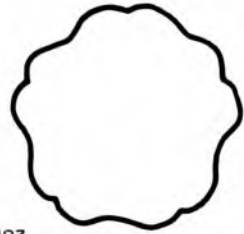
EET-162
10276



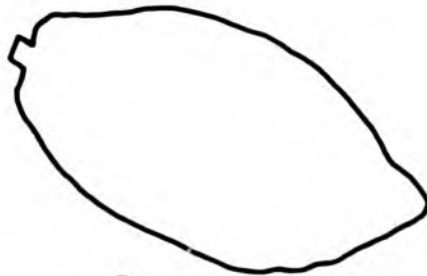
EET-164
10277



EET-183
10278



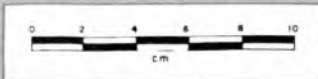
EET-228
10279

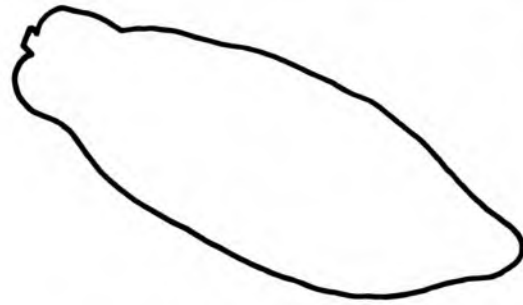


EET-250
10280

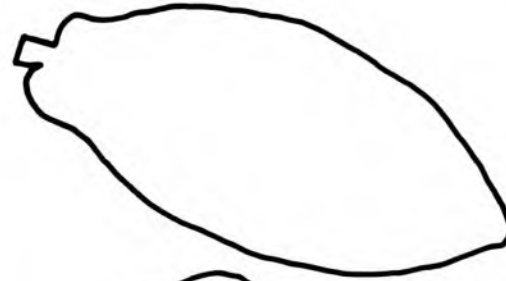
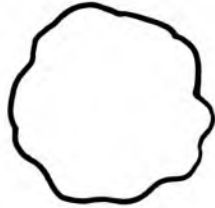


EET-333
10281





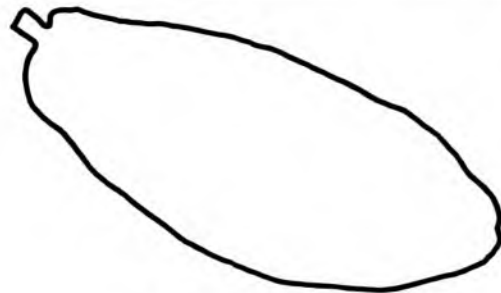
EET-338
10282



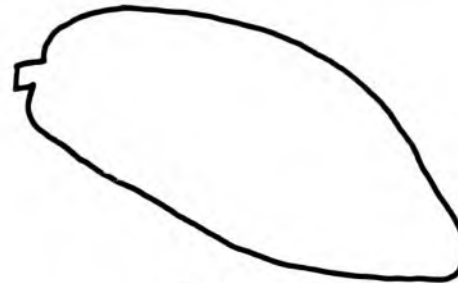
EET-353
10283



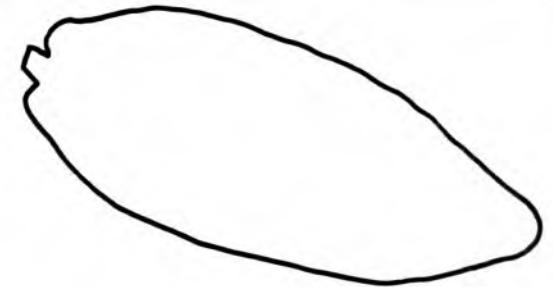
EET-376
10285



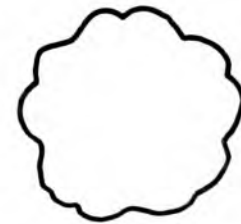
EET-377
10286

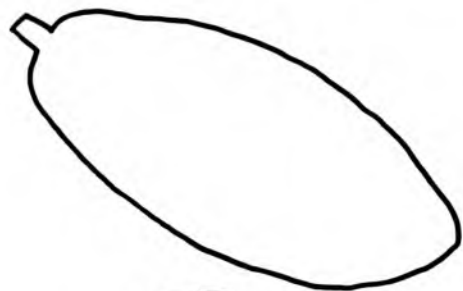


EET-397
10288

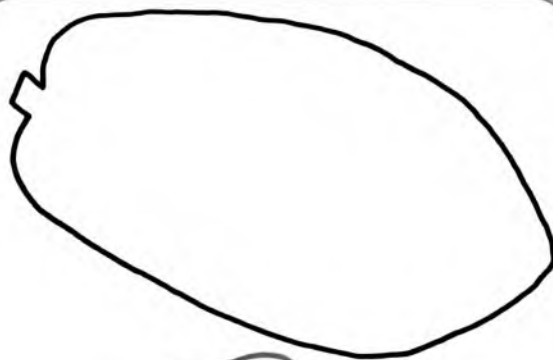


EET-399
10289





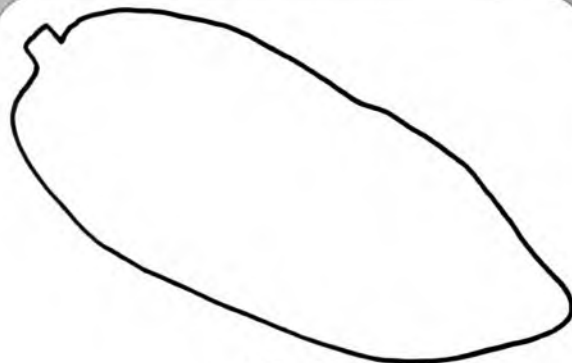
EET-400
10290



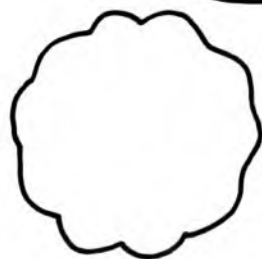
G-8
10291



GA-11
10293



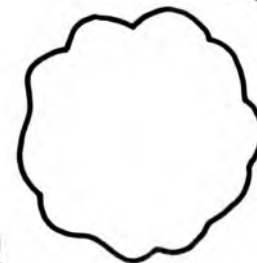
GS-29
10296



GS-36
10297

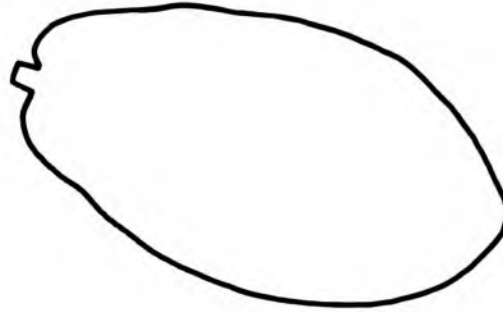


ICS-1
10309

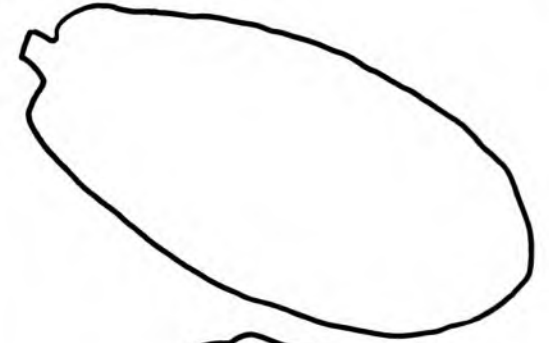
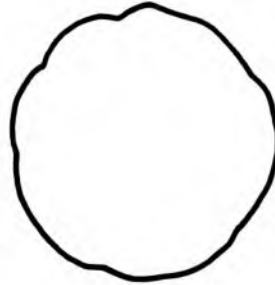




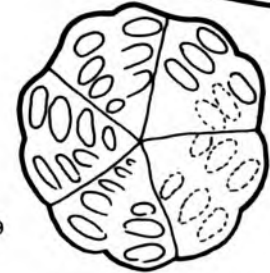
ICS - 6
10311



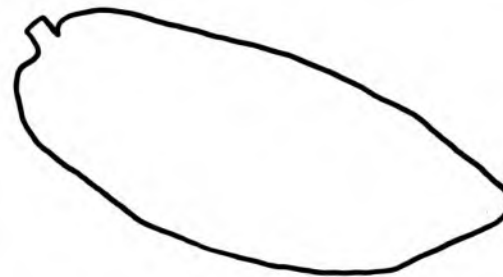
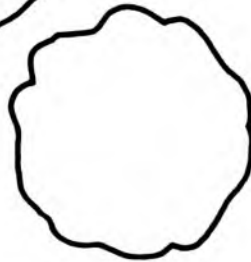
ICS - 16
10313



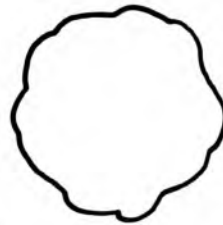
ICS - 39
10315



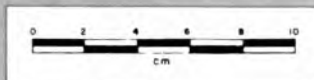
ICS - 40
10316

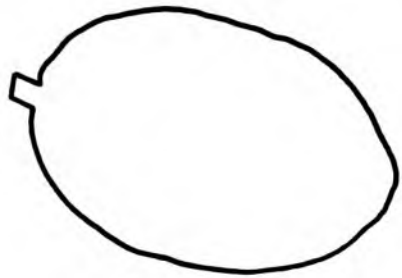


ICS - 43
10317

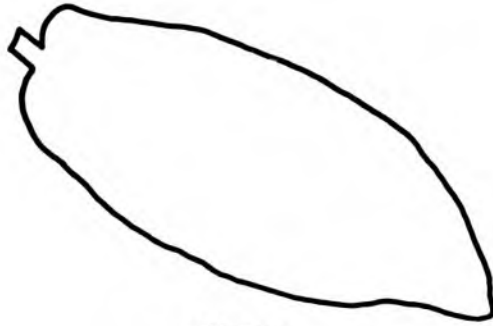
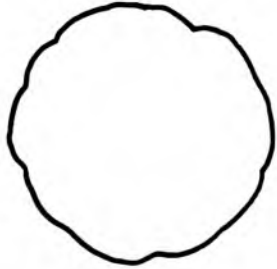


ICS - 44
10318

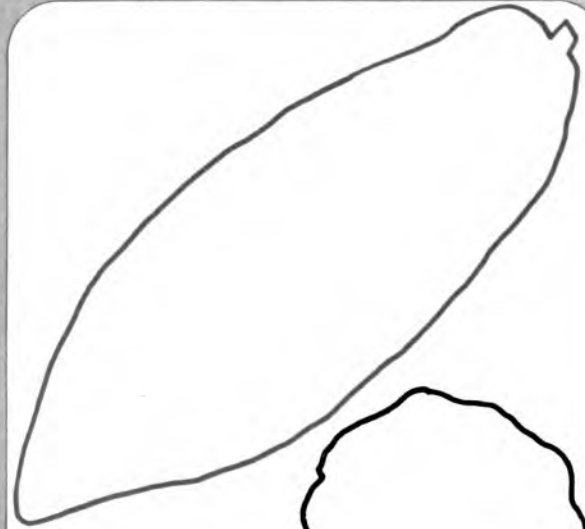
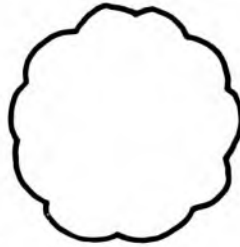




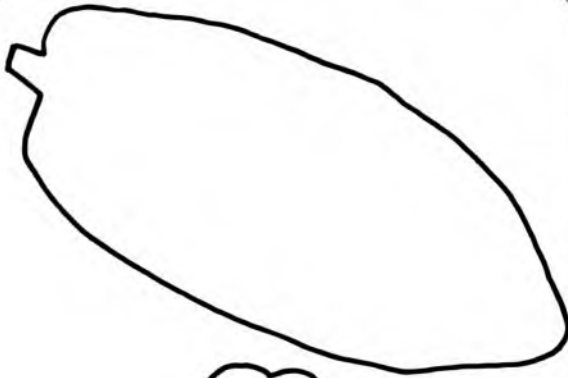
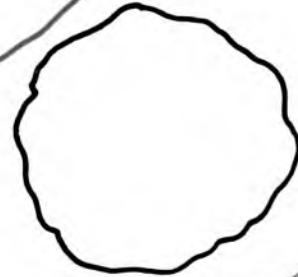
ICS - 46
10321



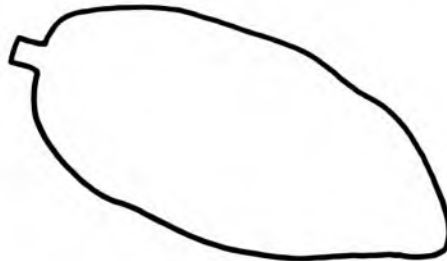
ICS - 53
10323



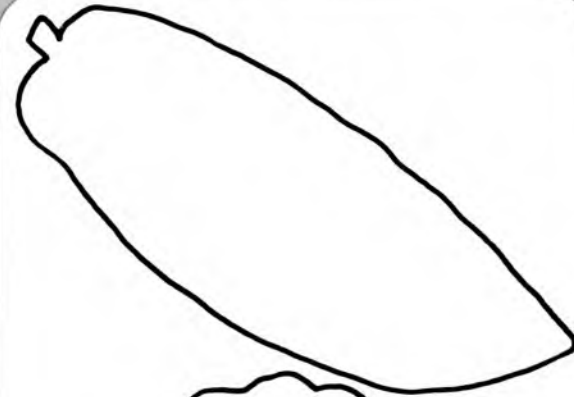
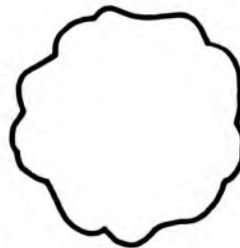
ICS - 60
10325



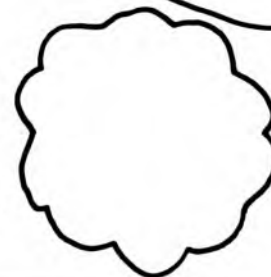
ICS - 89
10326

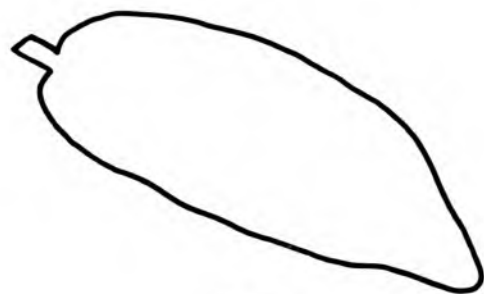


ICS - 117
10329

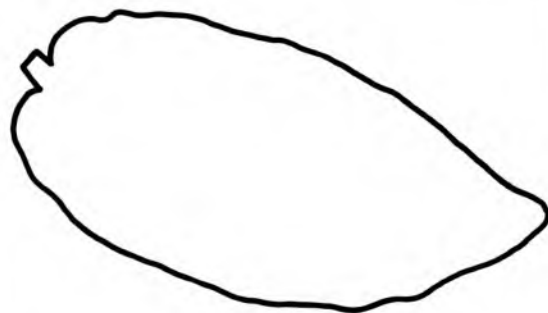


ICS - 137
10333

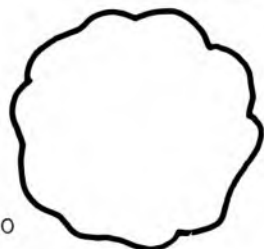




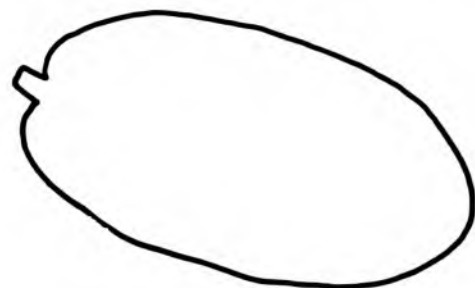
ICS -95
10335



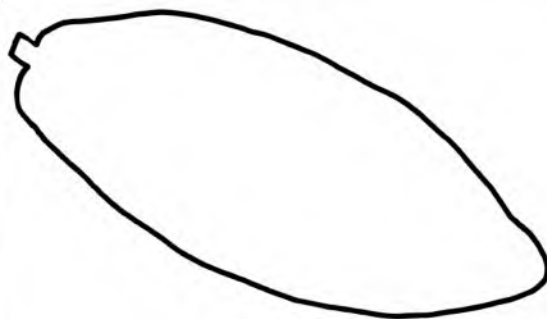
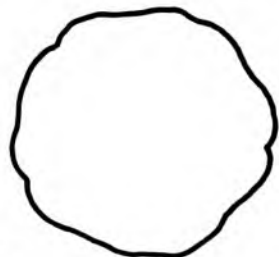
ICS -100
10337



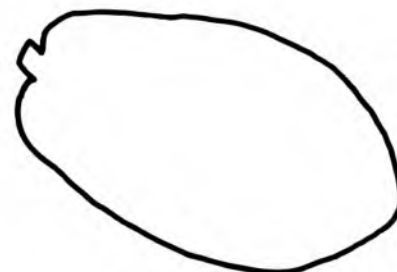
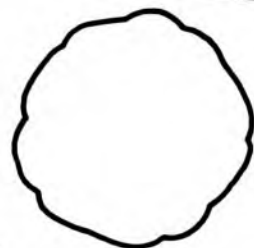
ICS -133
10338



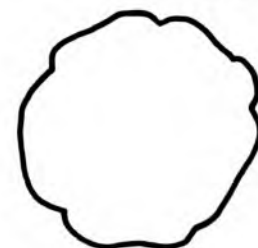
IMC -60
10339

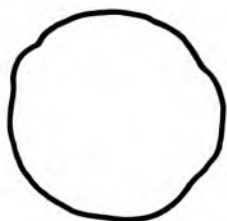


IMC-67
10341

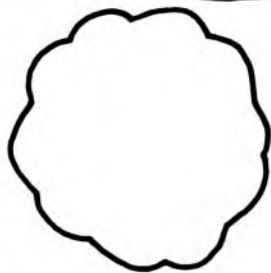
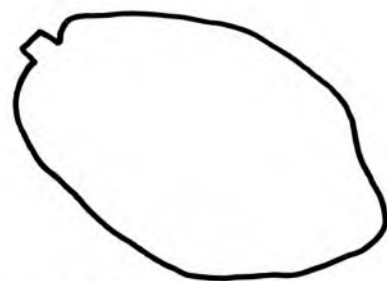


JACA
10343





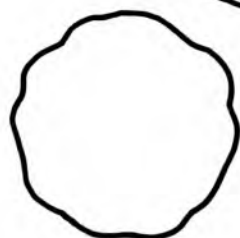
LARANJA
10344



10345



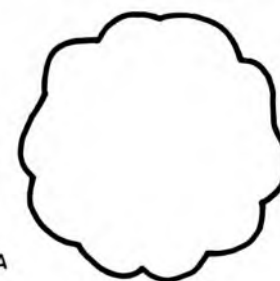
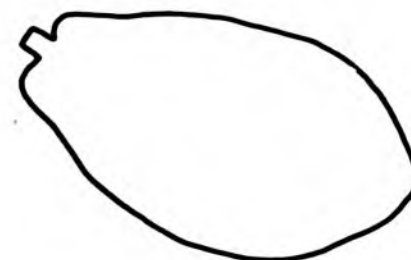
LA ESMIDA
10346



MA-12
10351

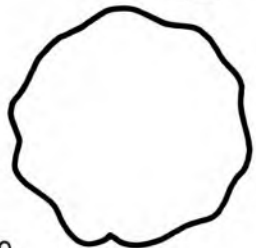
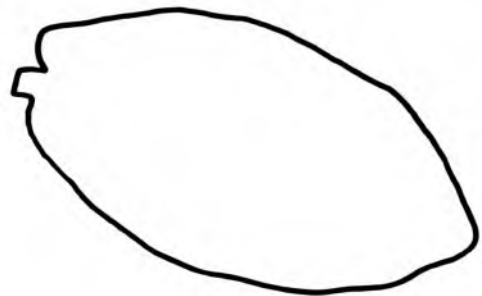


MA-13
10352

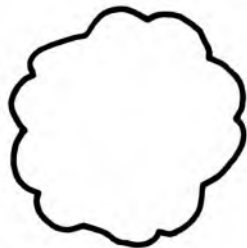
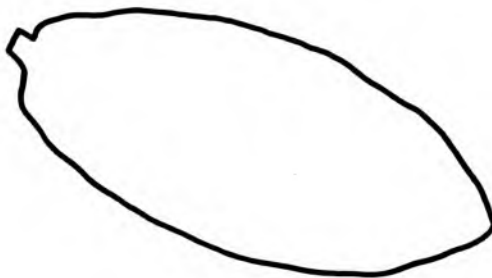


MATINA
10353

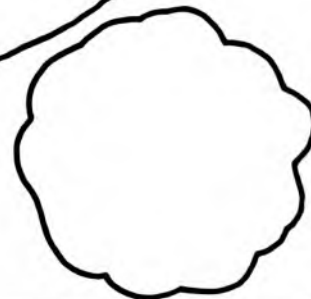




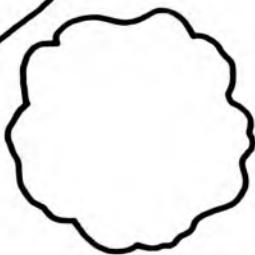
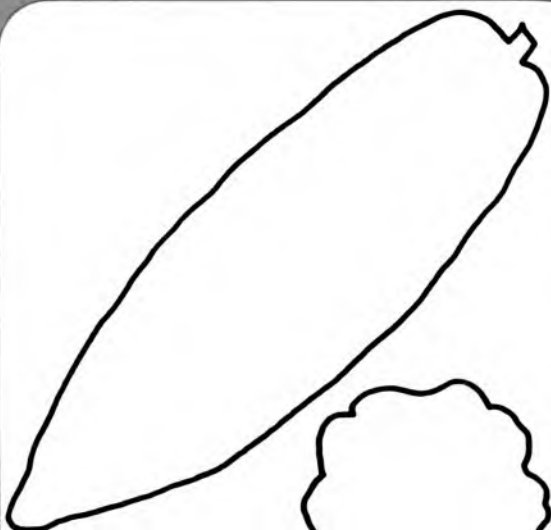
MOCORONGO
10368



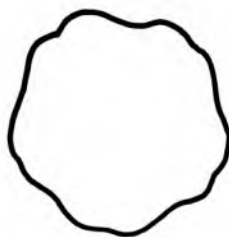
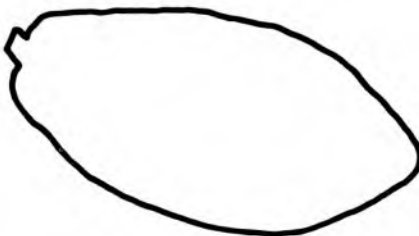
NA -34
10372



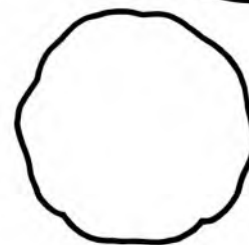
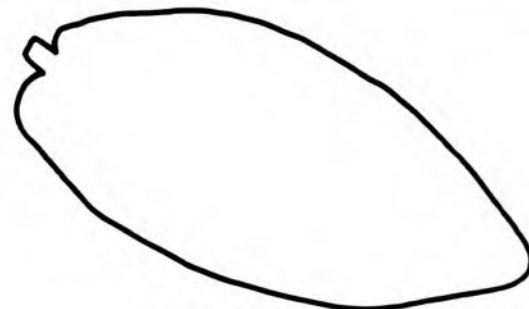
OC-77
10374



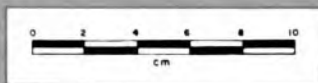
P-10
10376

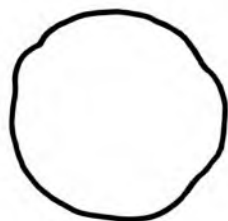


P-15
10379

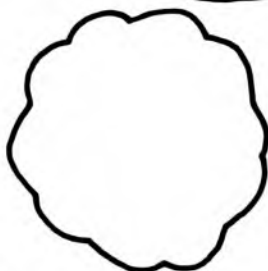
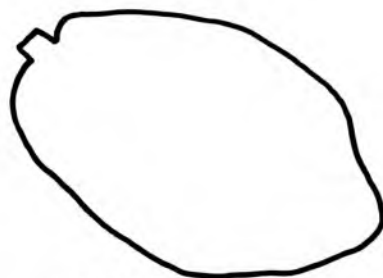


P-16
10380

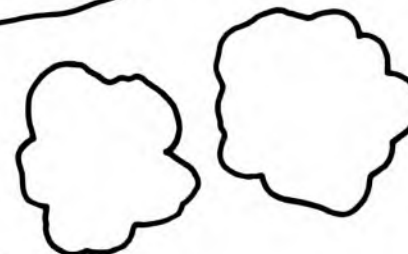




LARANJA
10344



10345



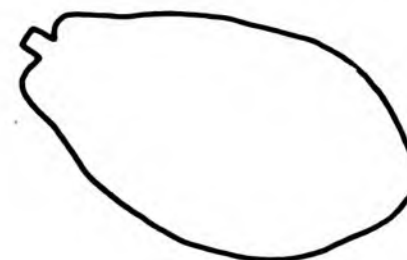
LA ESMIDA
10346



MA-12
10351

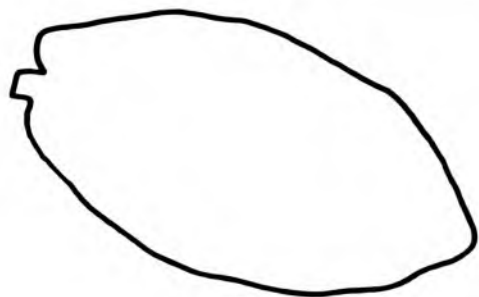


MA-13
10352

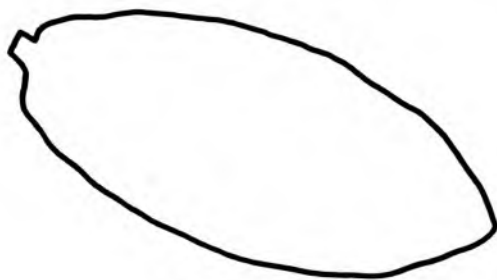


MATINA
10353





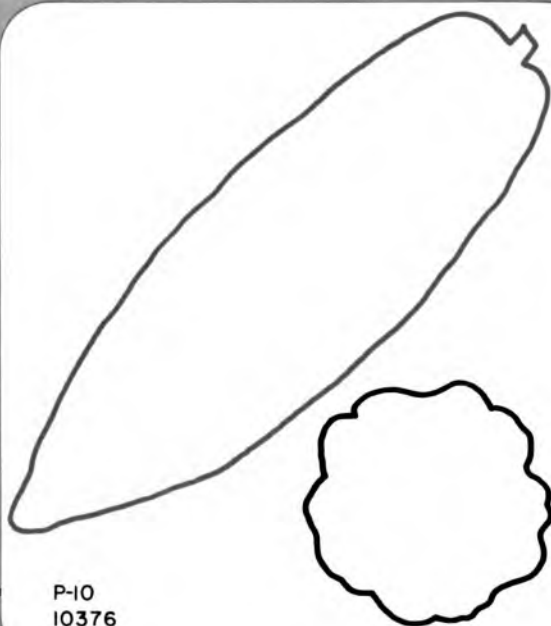
MOCORONGO
10368



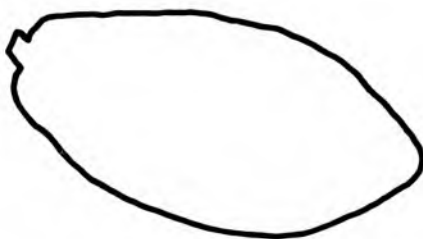
NA-34
10372



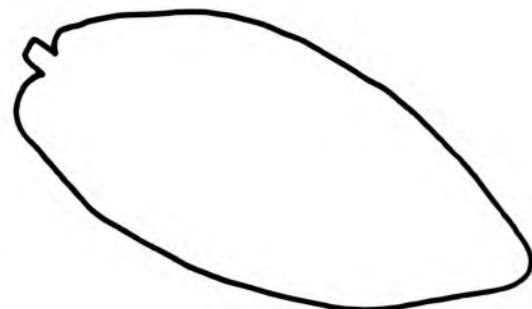
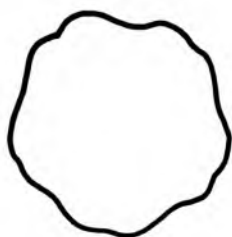
OC-77
10374



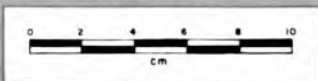
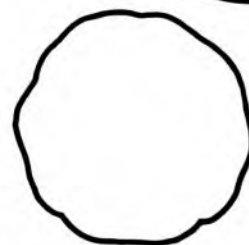
P-10
10376

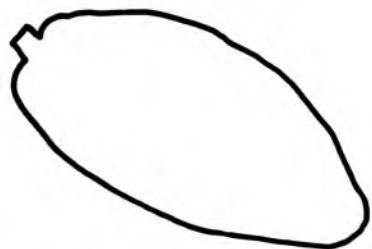


P-15
10379

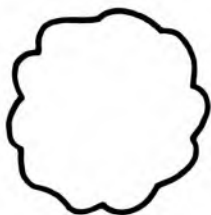
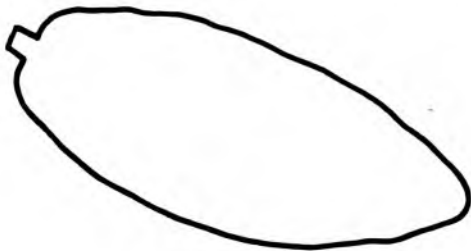


P-16
10380

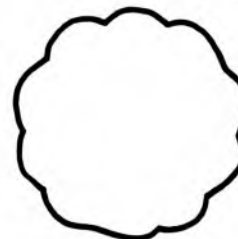
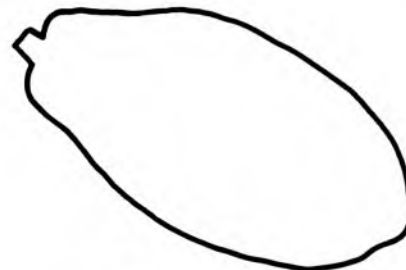




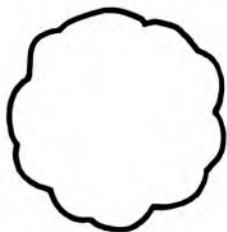
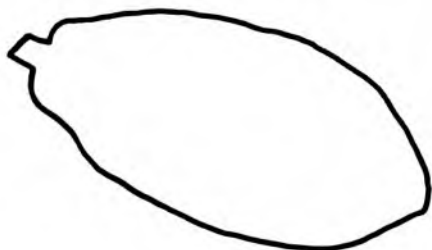
P-19
10381



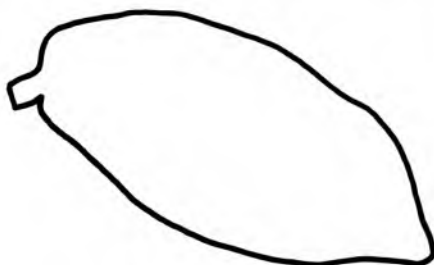
P-19
10382



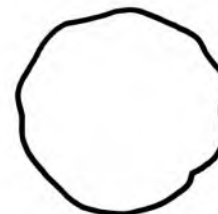
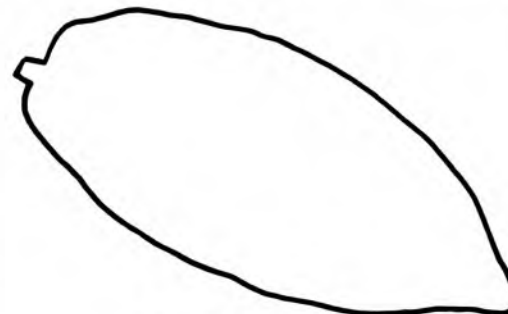
P-20
10383



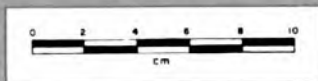
P-23
10385

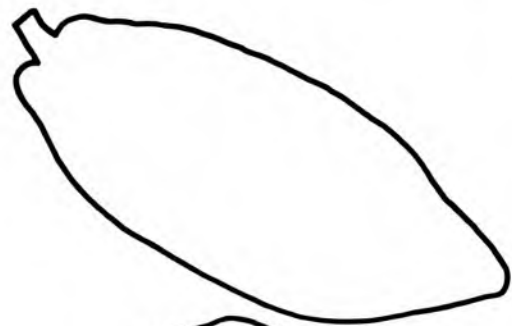


PA-13
10387

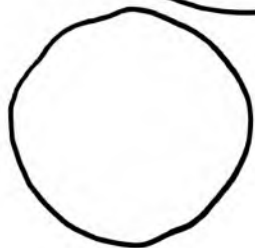


PA-16
10388

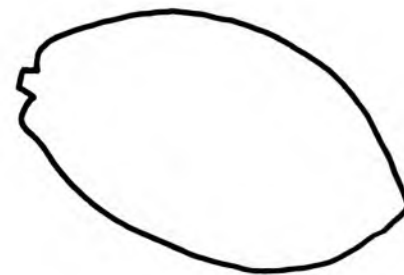
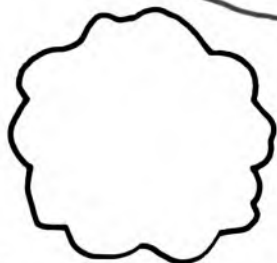




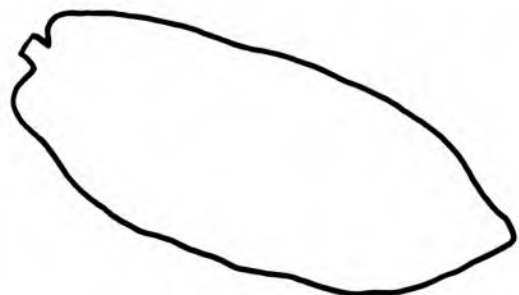
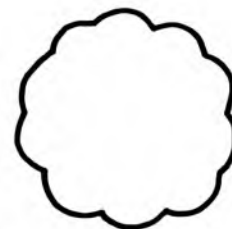
PA-16
10389



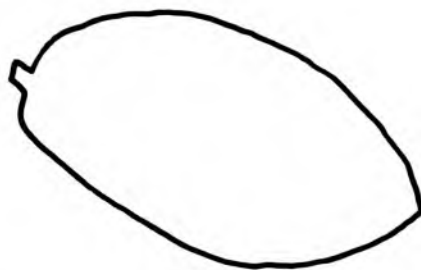
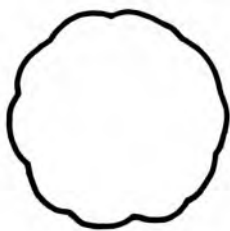
PA-81
10390



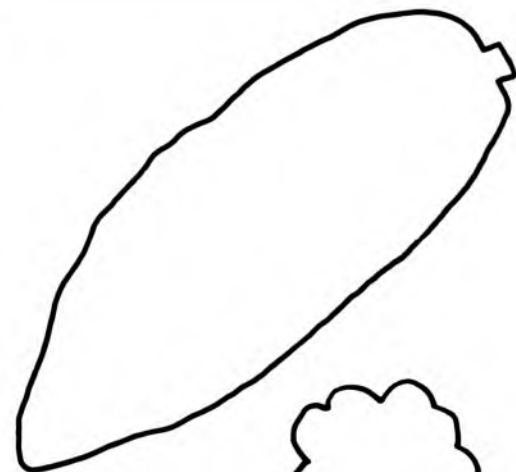
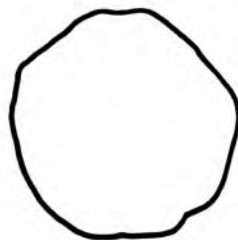
PA-121
10391



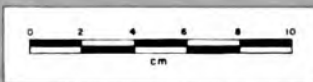
PA-121
10392

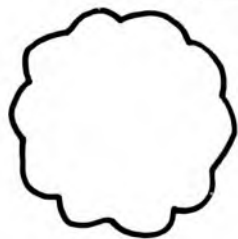
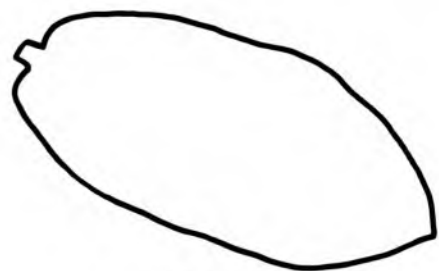


PA-169
10393

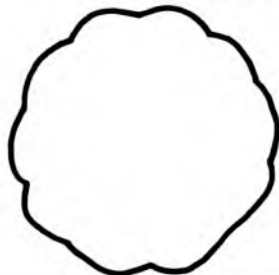
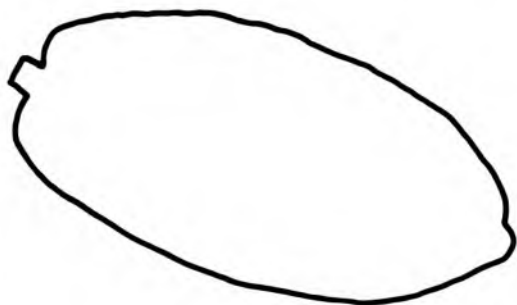


PORCELANA-3
10397

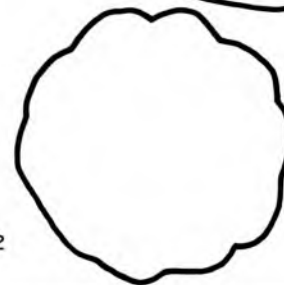




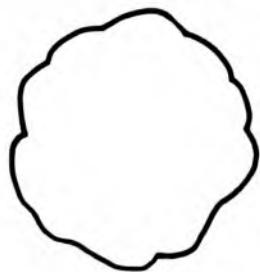
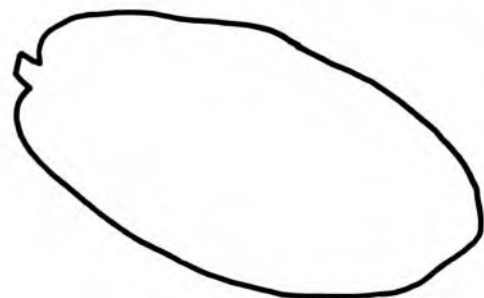
POUND -7
10398



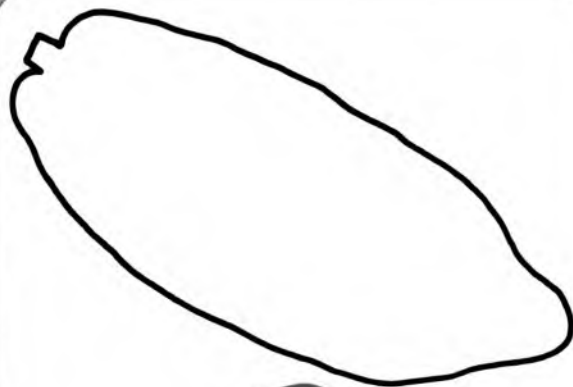
POUND -7
10399



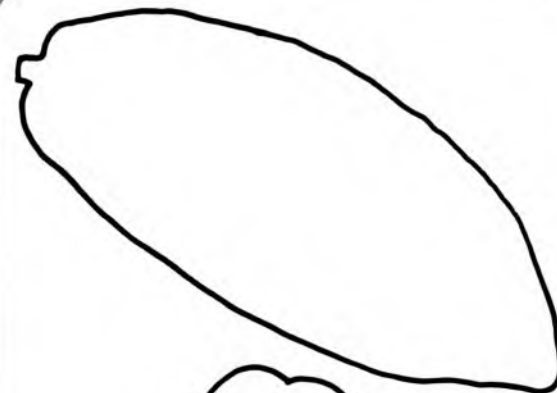
POUND -12
10400



POUND -12
10401



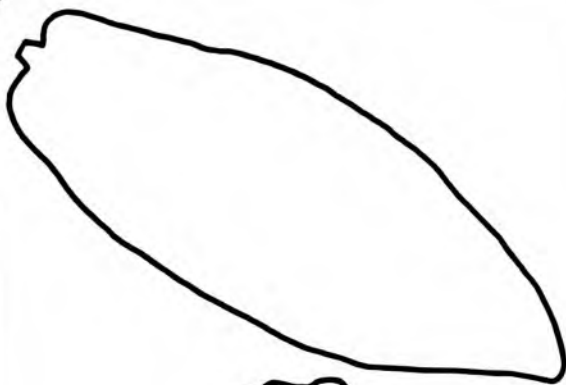
PV -4
10407



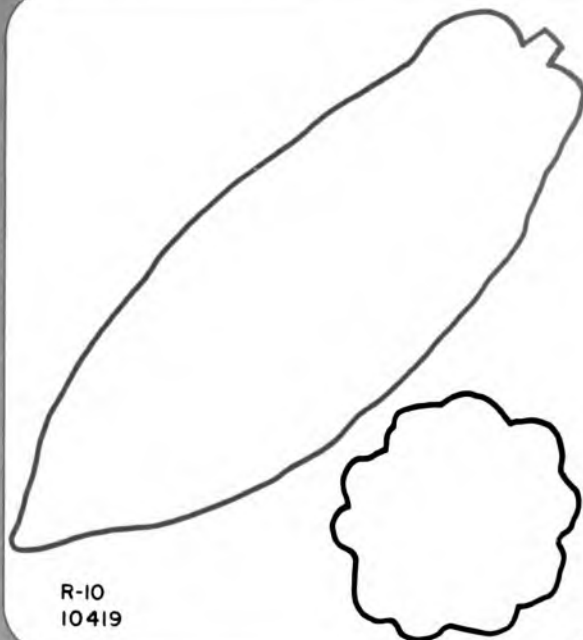
R-2
10415



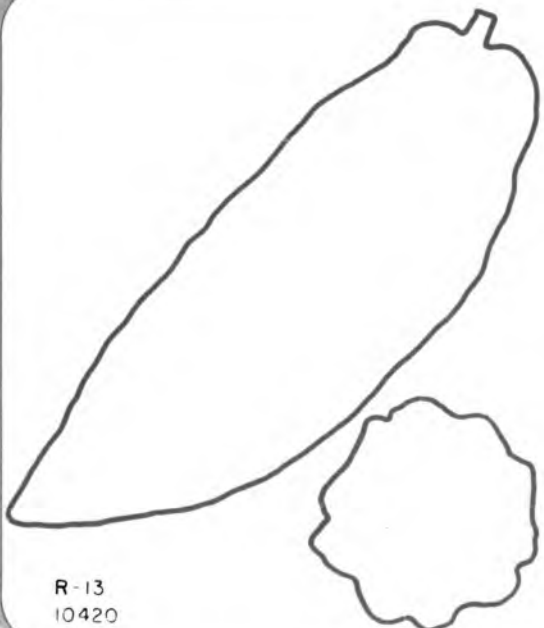
R-8
10417



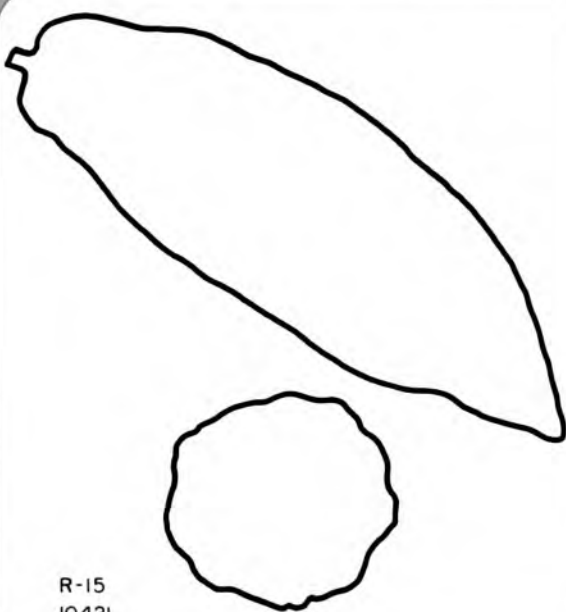
R-9
10418



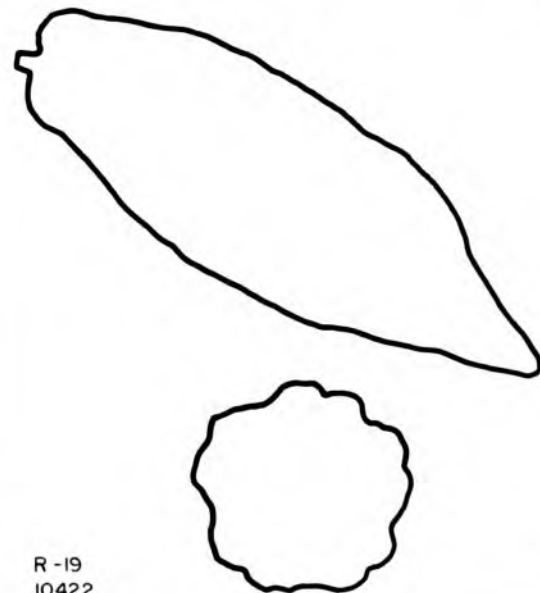
R-10
10419



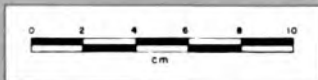
R-13
10420

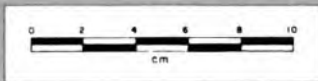
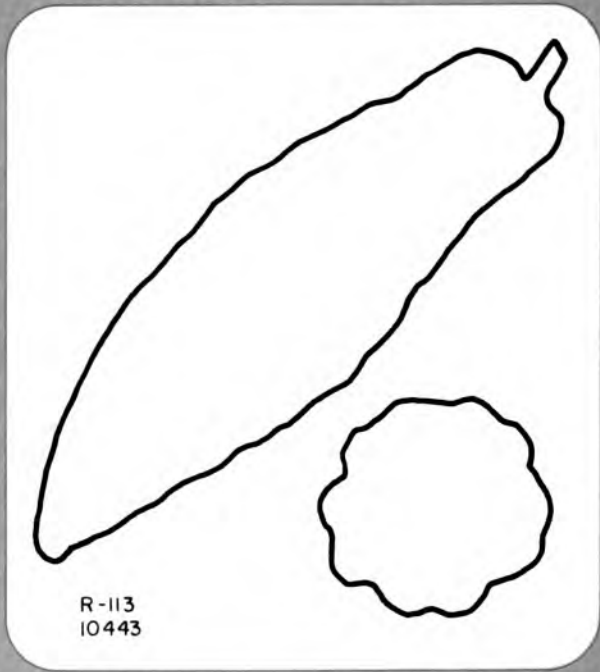
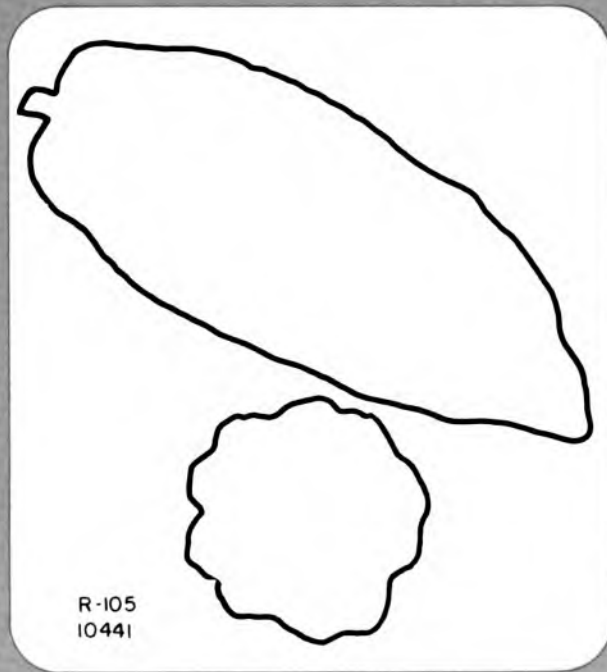
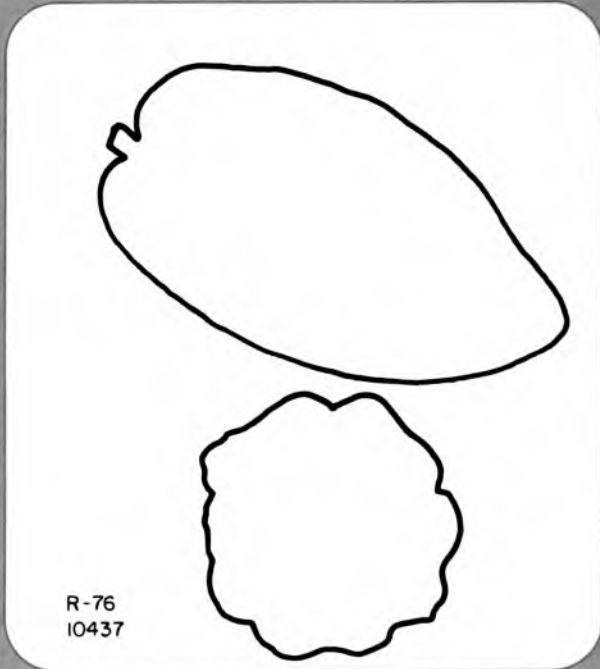
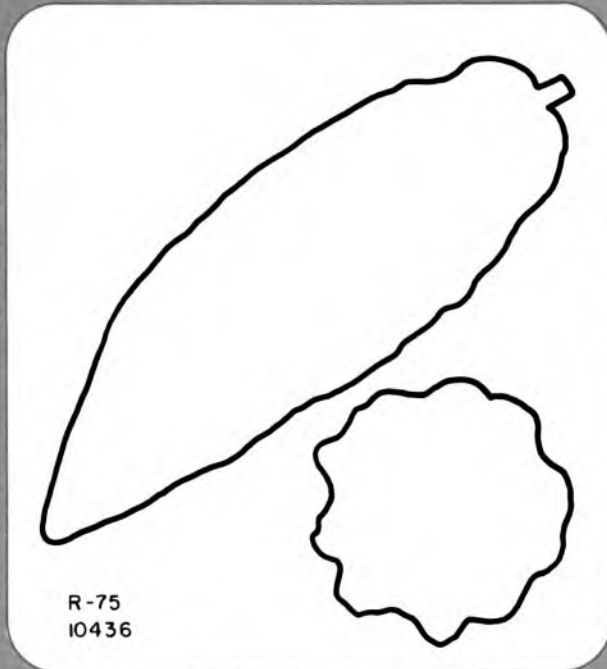
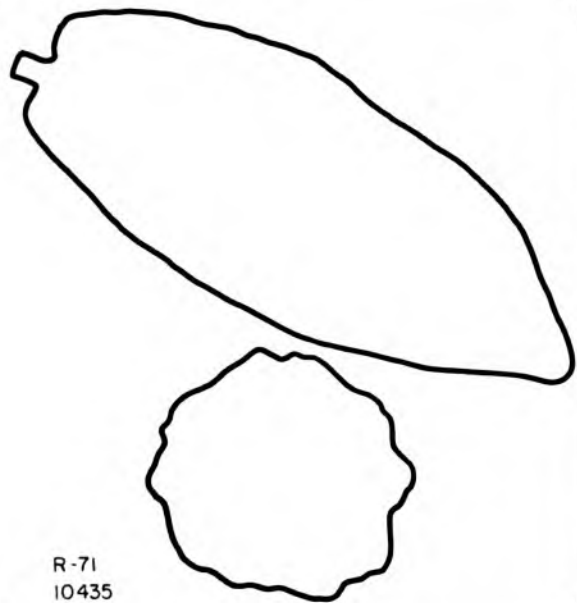


R-15
10421



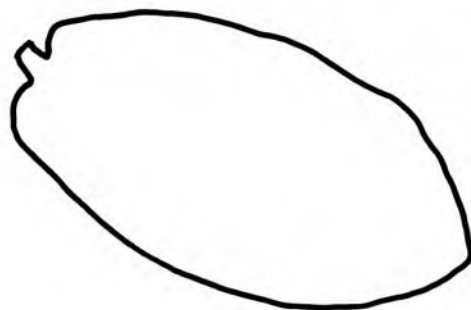
R-19
10422



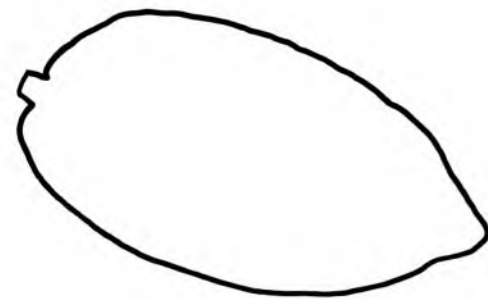
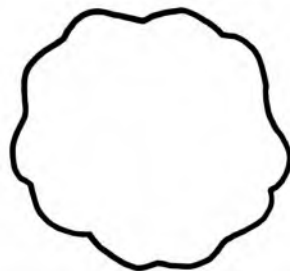




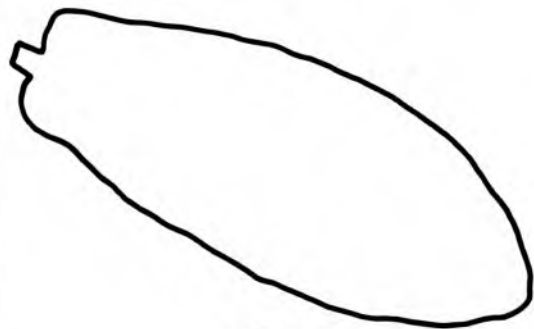
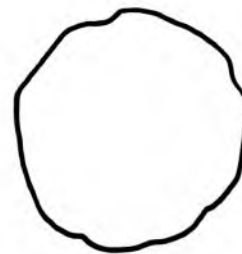
R-117
10444



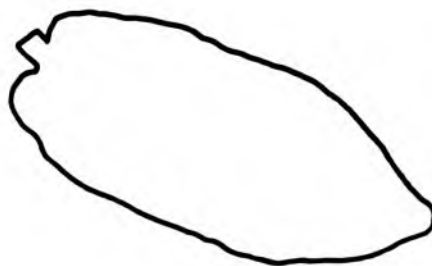
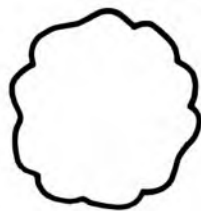
RB-37
10447



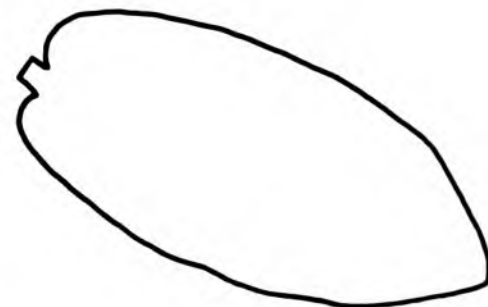
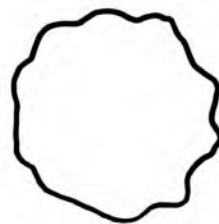
RB-39
10448



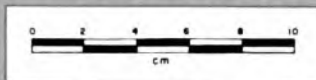
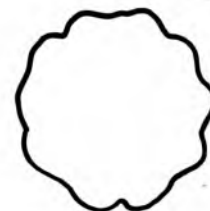
RB-39
10449

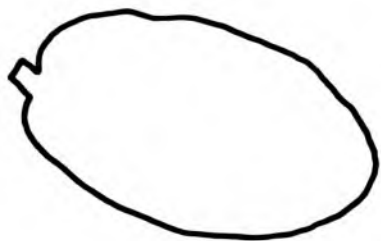


RB-41
10450

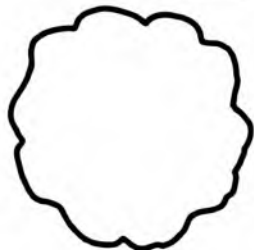
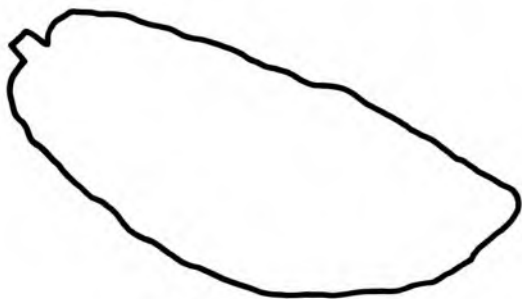


RB-46
10452

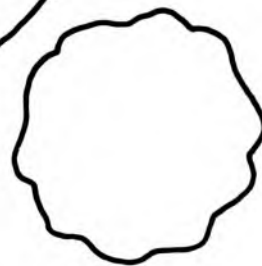
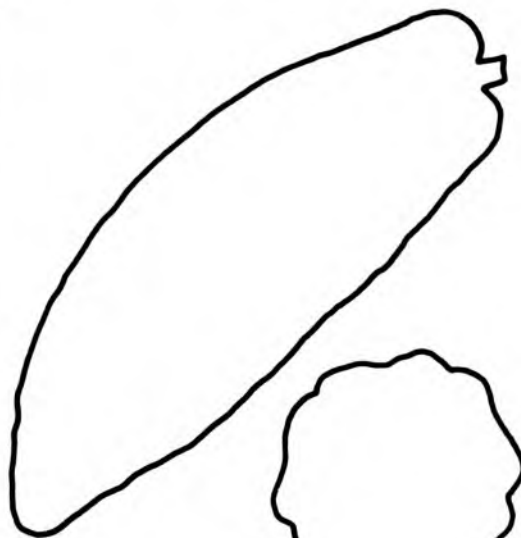




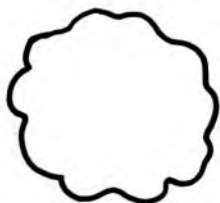
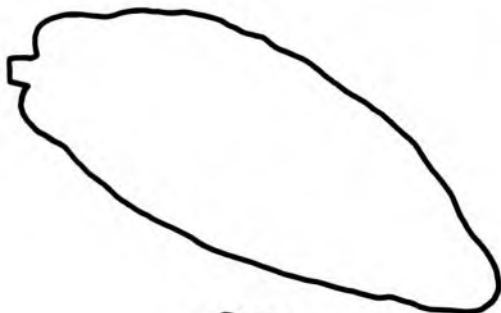
SANTA CLARA - 3
10456



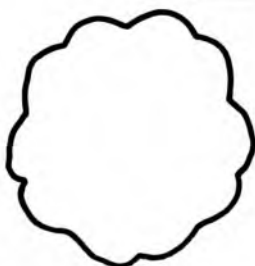
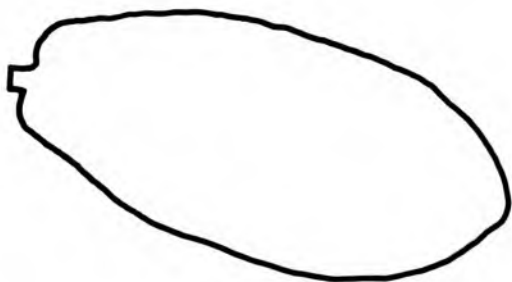
SC-5
10457



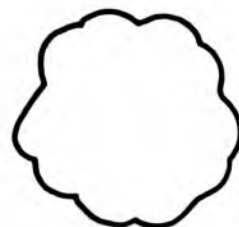
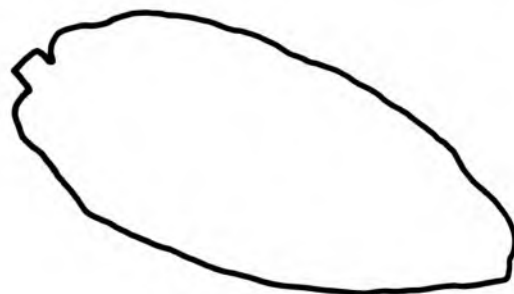
SC-6
10458



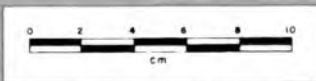
SCA - 6
10464

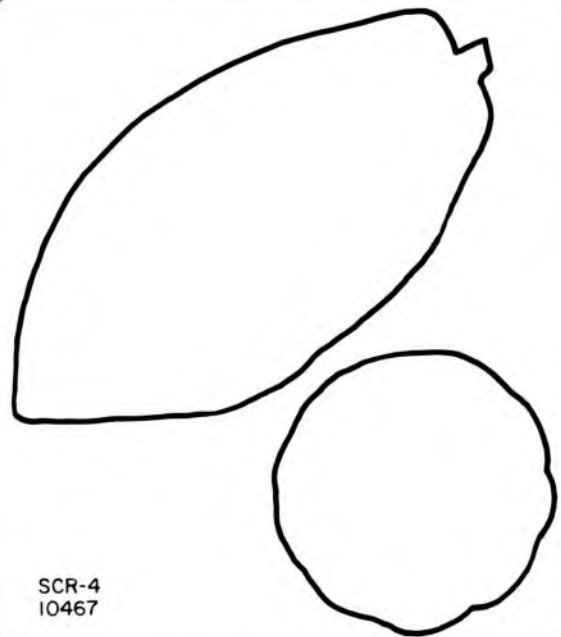


SCA-9
10465

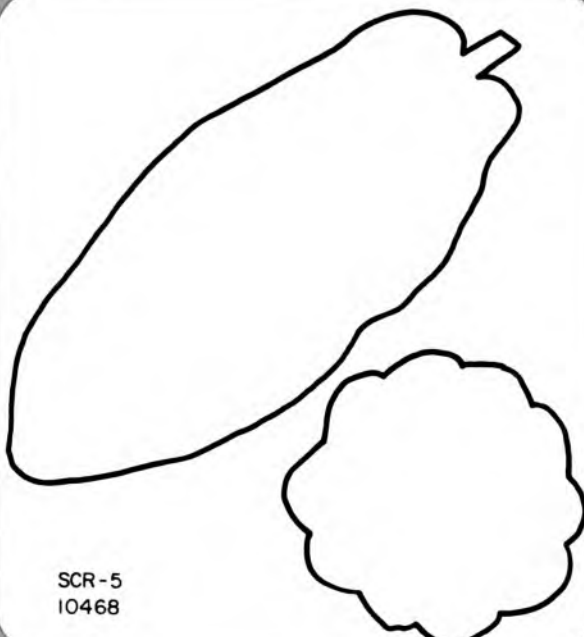


SCA-12
10466

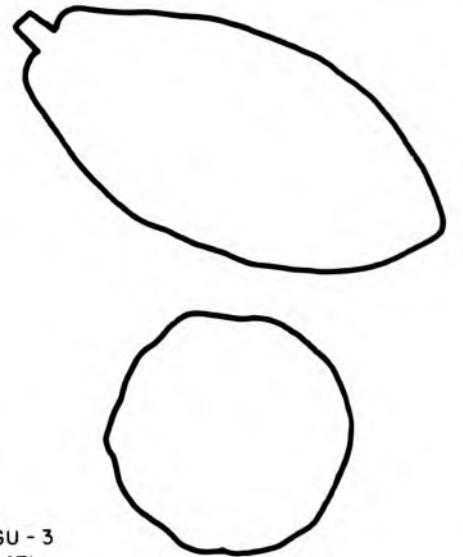




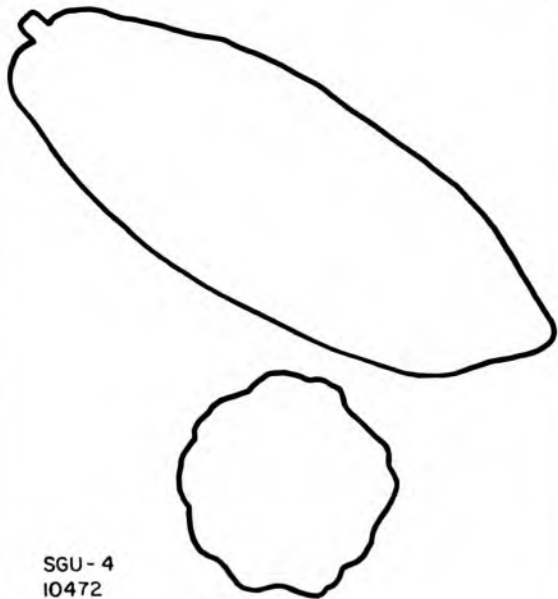
SCR-4
10467



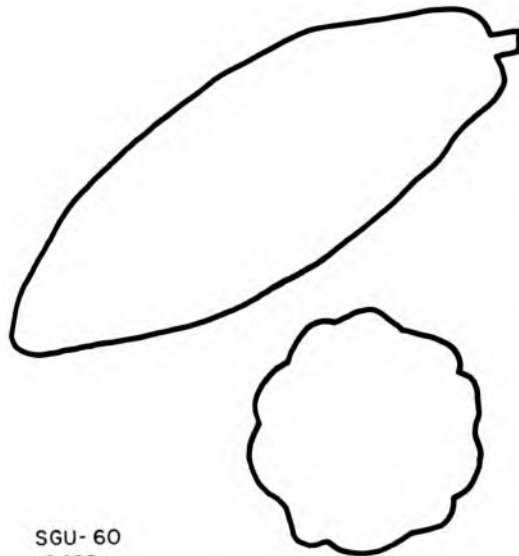
SCR-5
10468



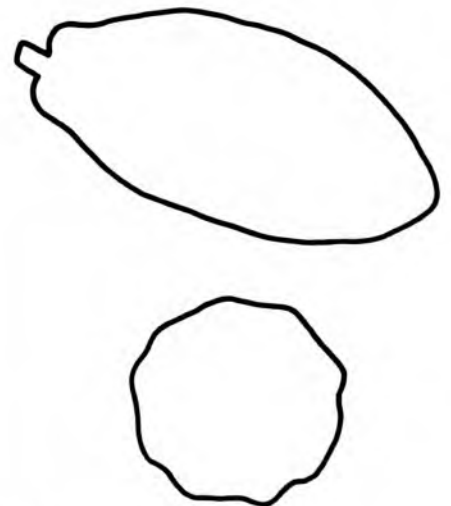
SGU - 3
10471



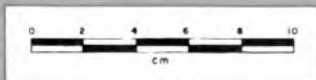
SGU - 4
10472

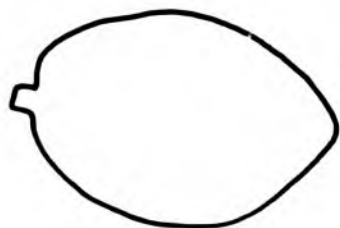


SGU - 60
10469

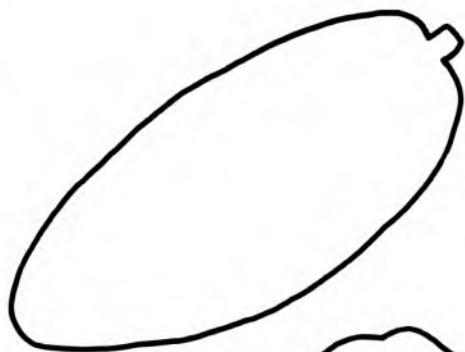
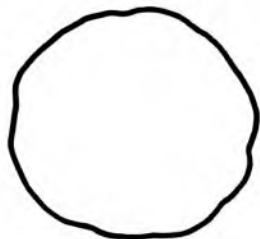


SGU - 69
10473

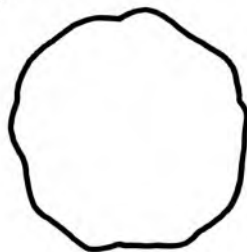




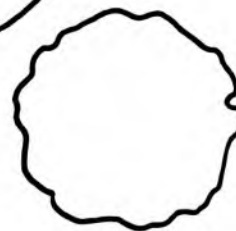
SGU - 71
10474



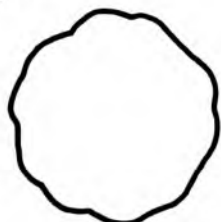
SGU - 82
10475



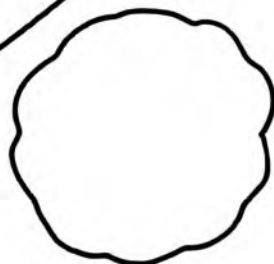
SGU - 89
10477



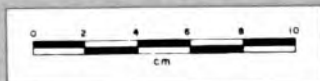
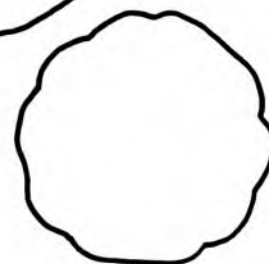
SIAL - 8
10478

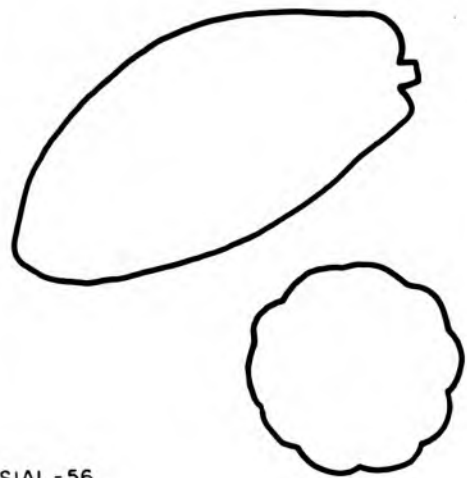


SIAL - 42
10479

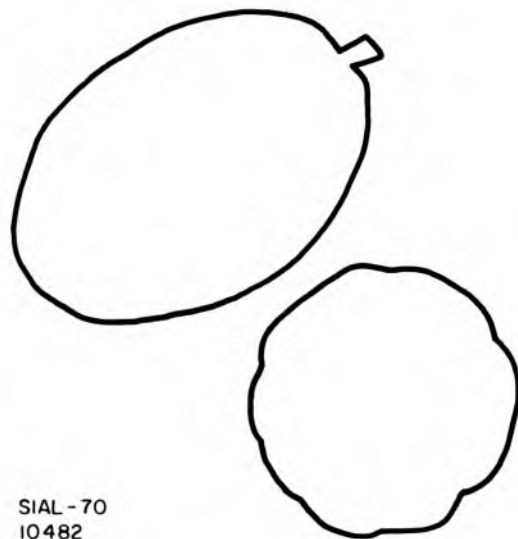


SIAL - 44
10480

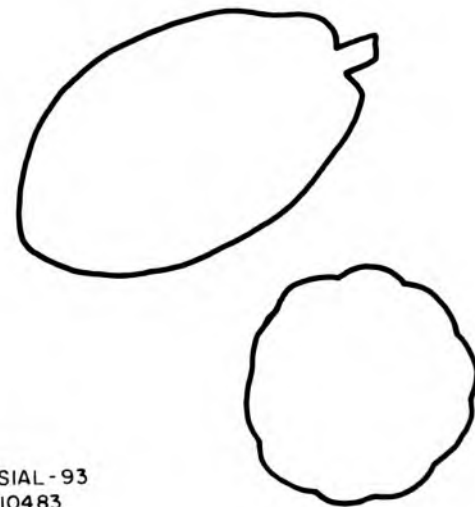




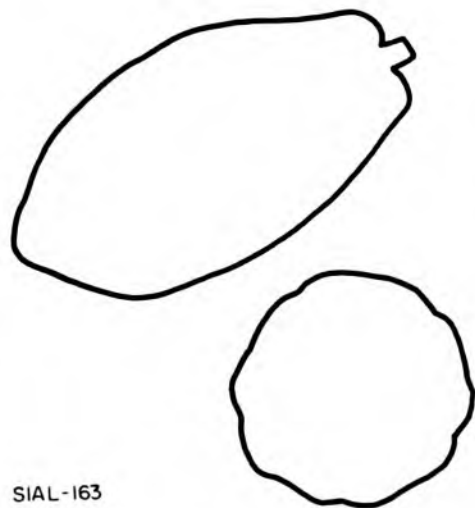
SIAL - 56
10481



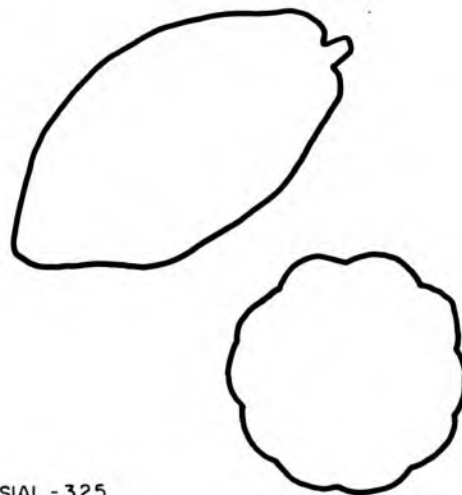
SIAL - 70
10482



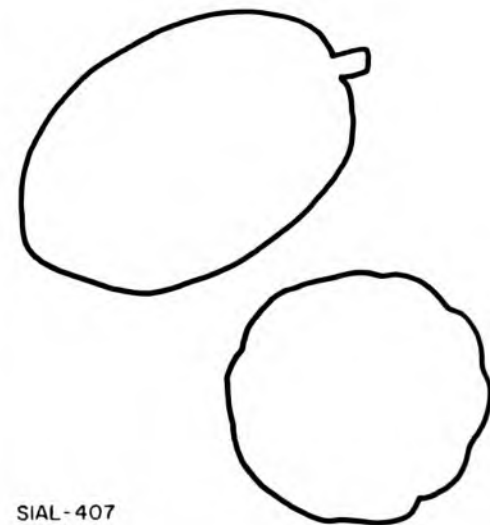
SIAL - 93
10483



SIAL - 163
10484

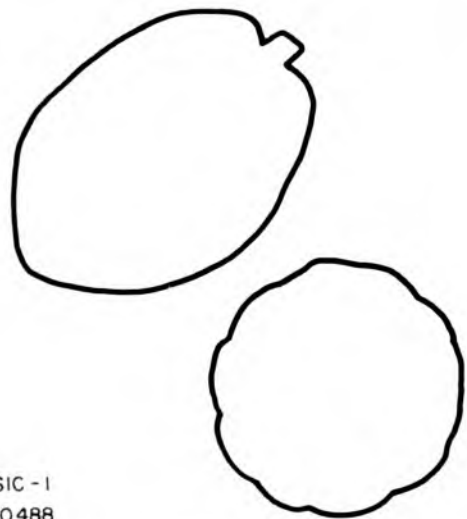


SIAL - 325
10486

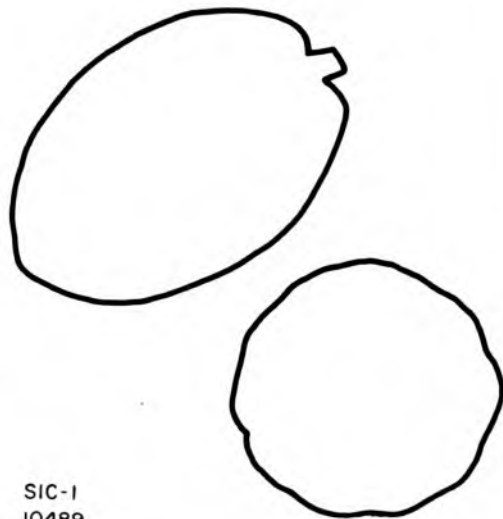


SIAL - 407
10487

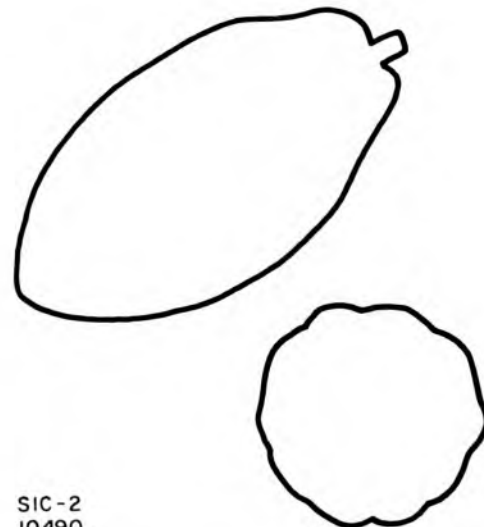




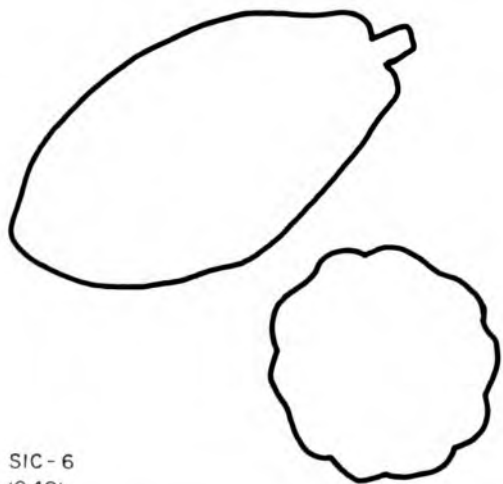
SIC-1
10488



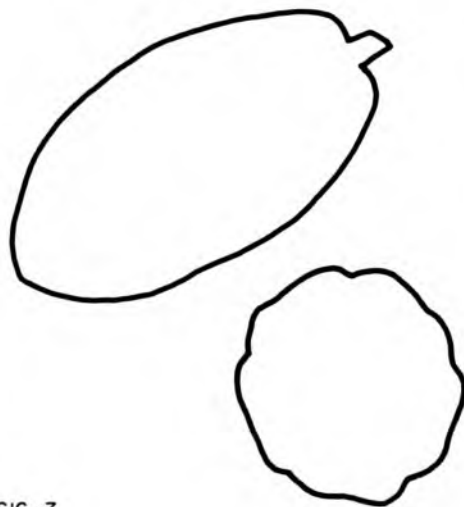
SIC-1
10489



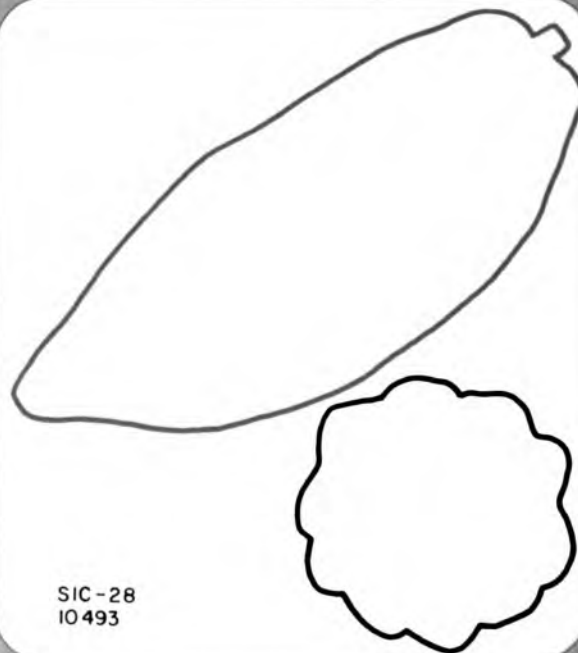
SIC-2
10490



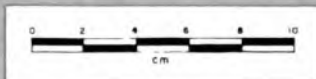
SIC-6
10491

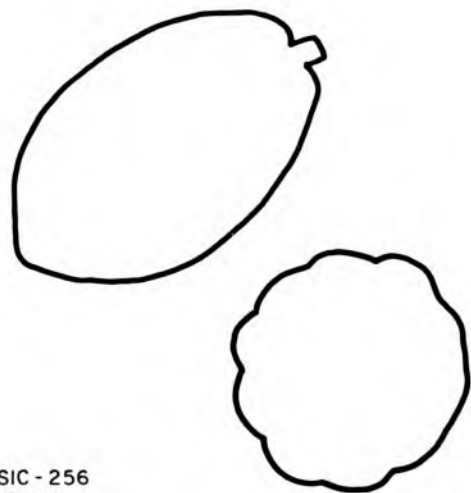


SIC-7
10492

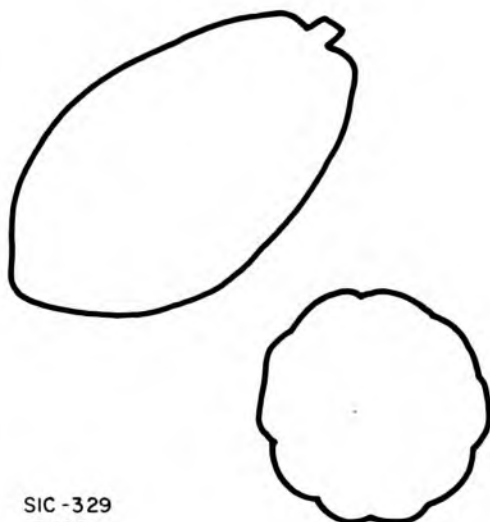


SIC-28
10493

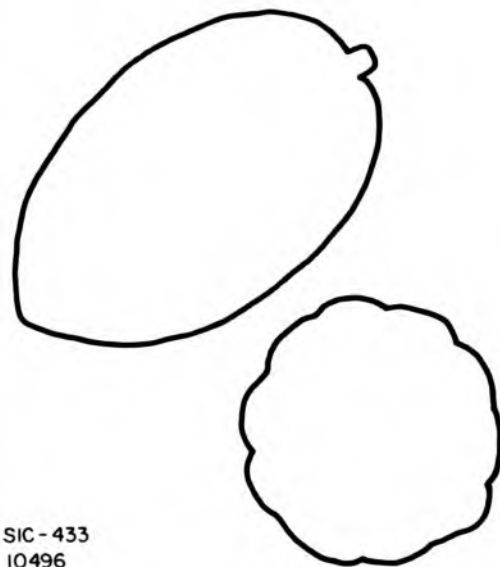




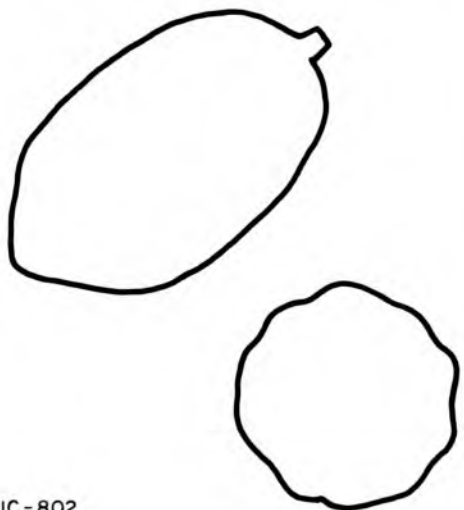
SIC - 256
10494



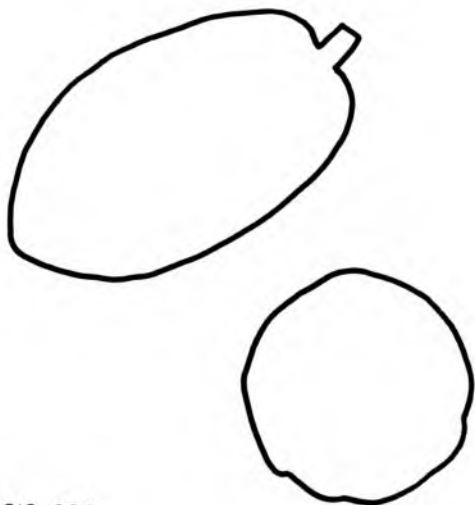
SIC - 329
10495



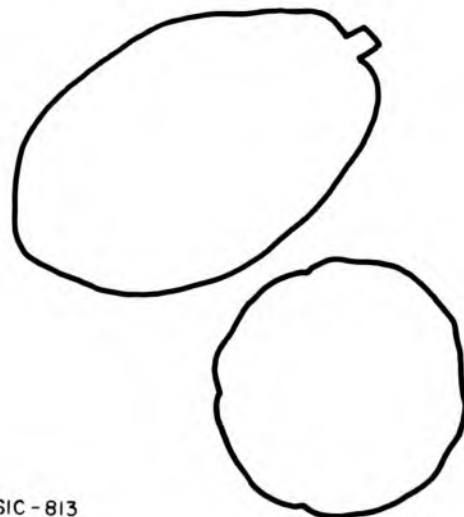
SIC - 433
10496



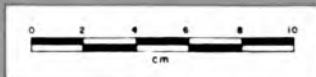
SIC - 802
10497

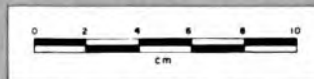
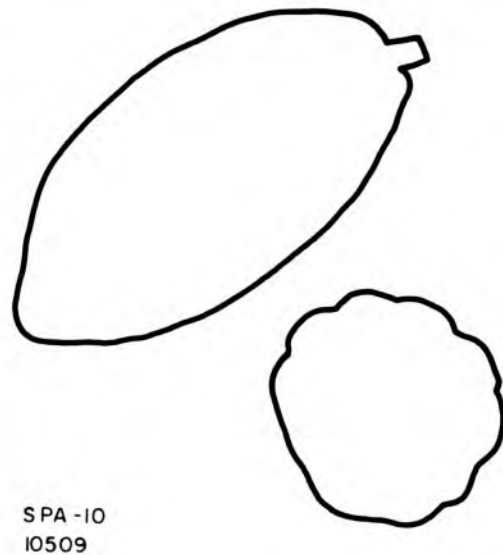
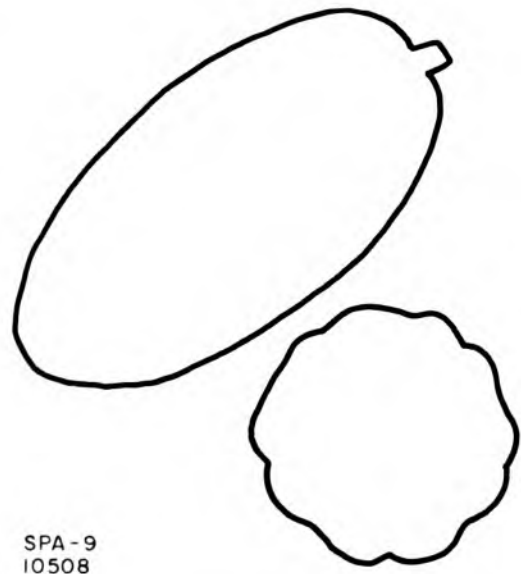
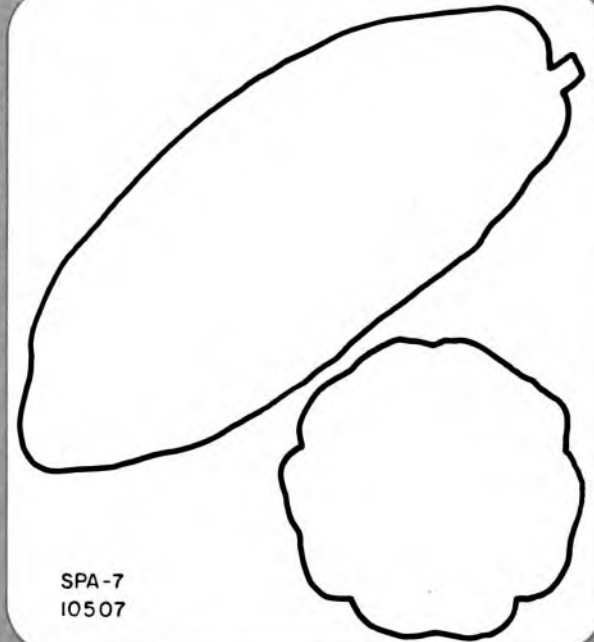
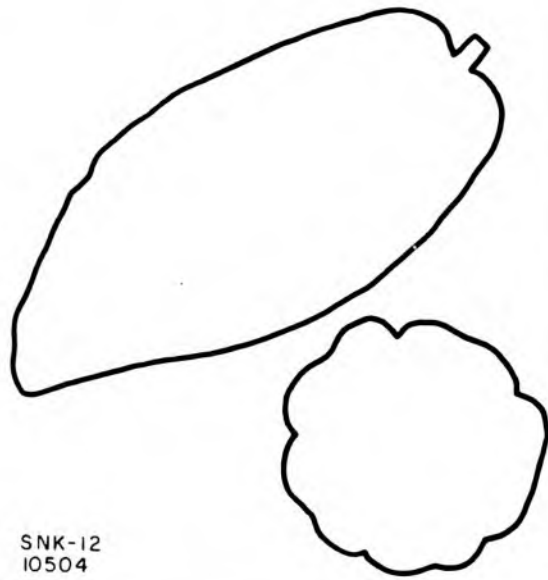


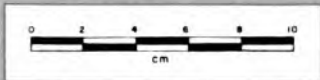
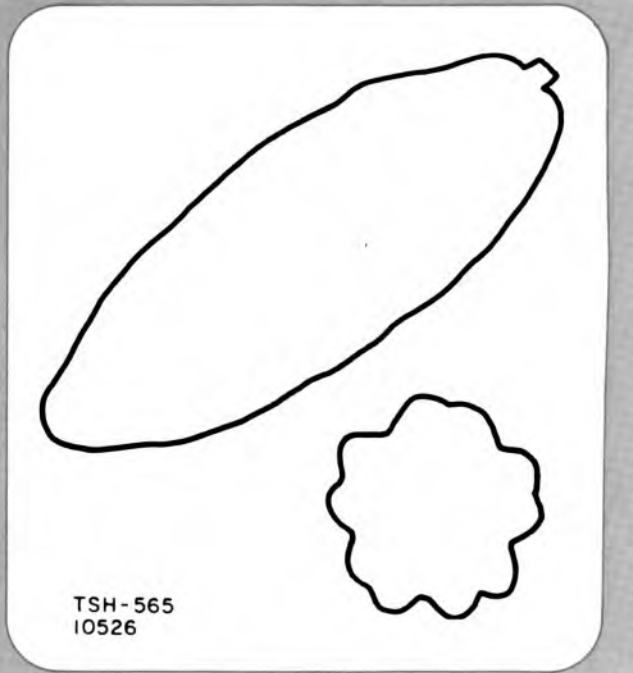
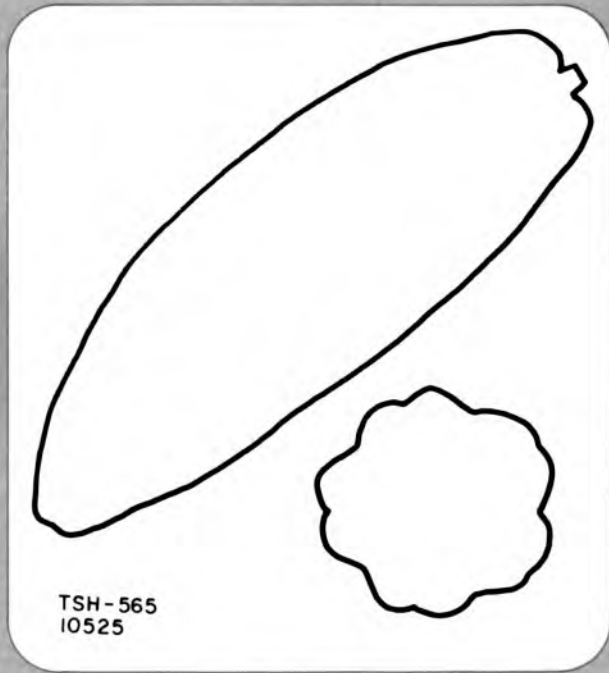
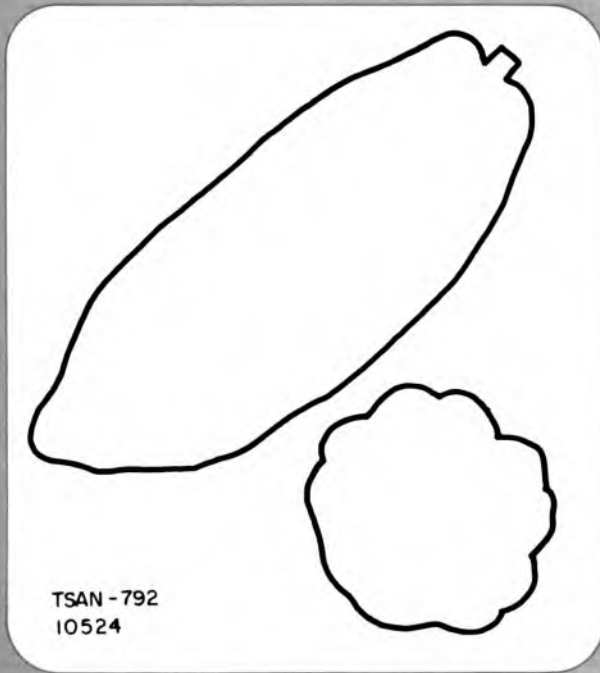
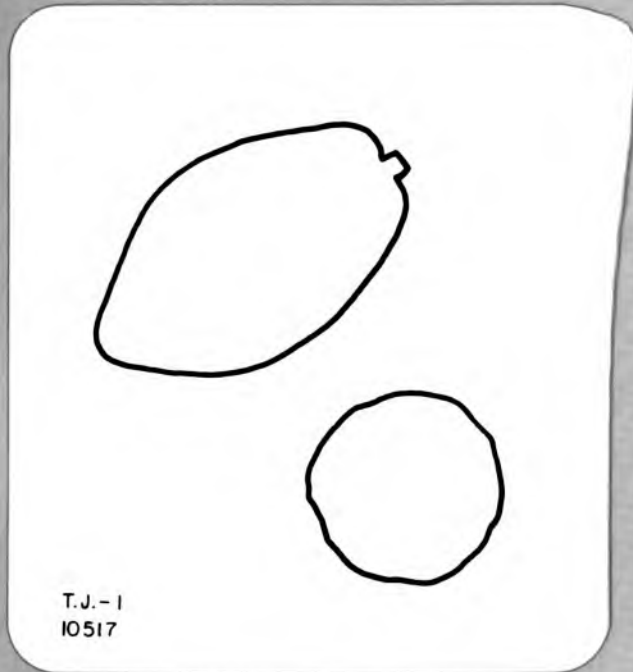
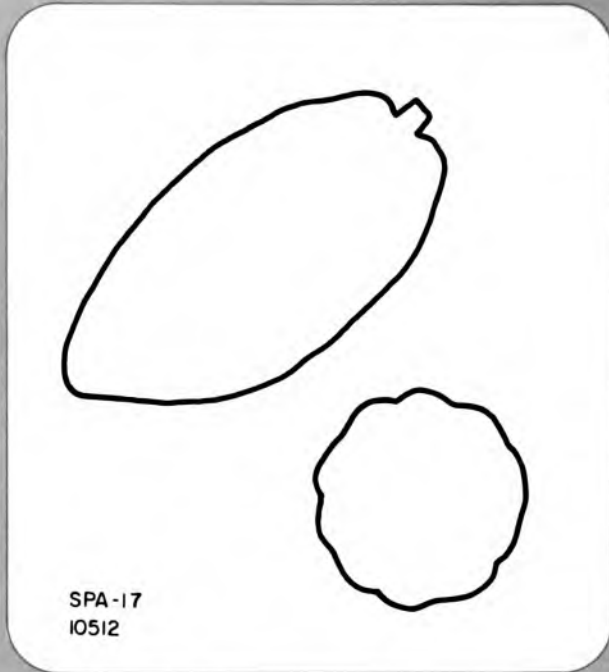
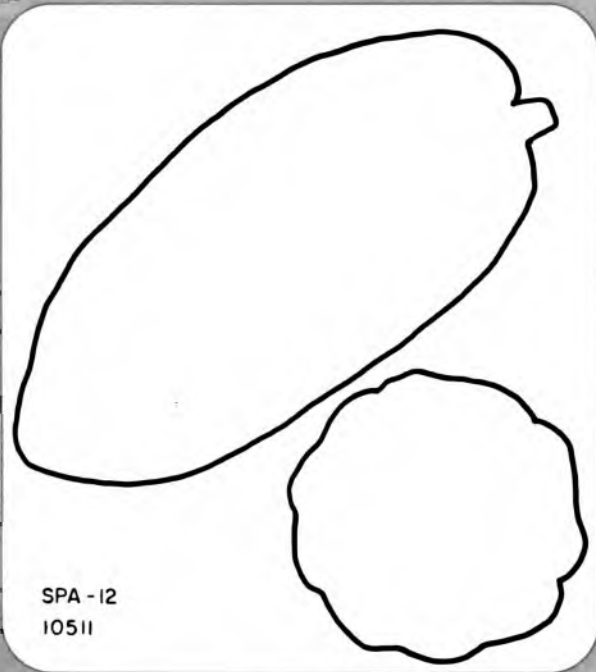
SIC - 806
10498

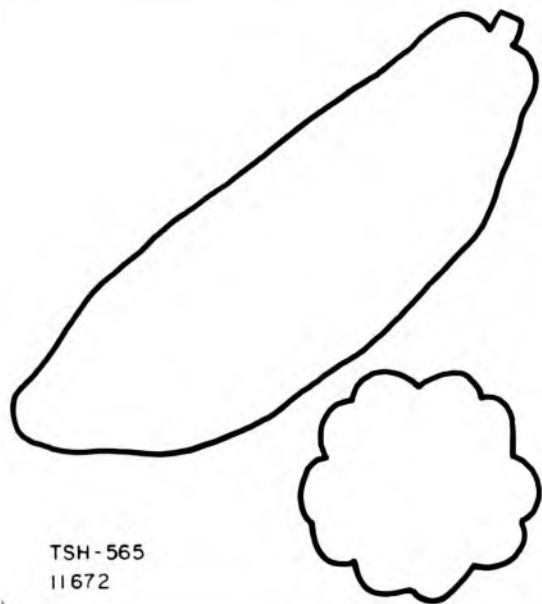


SIC - 813
10499

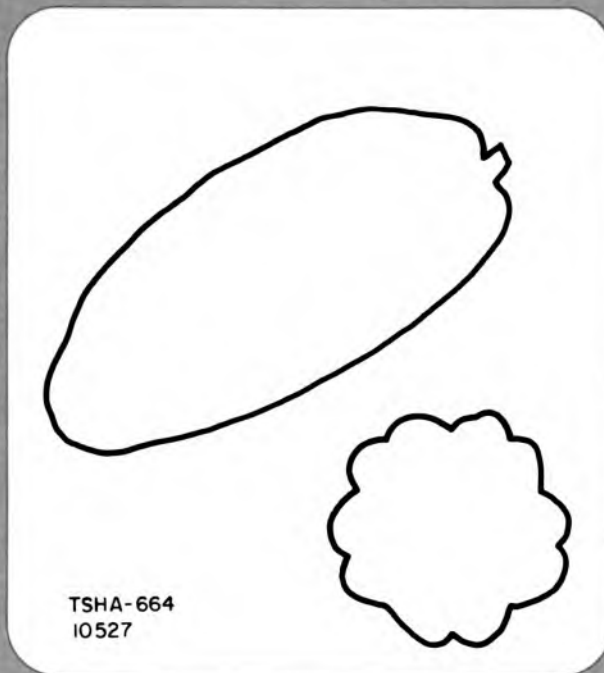




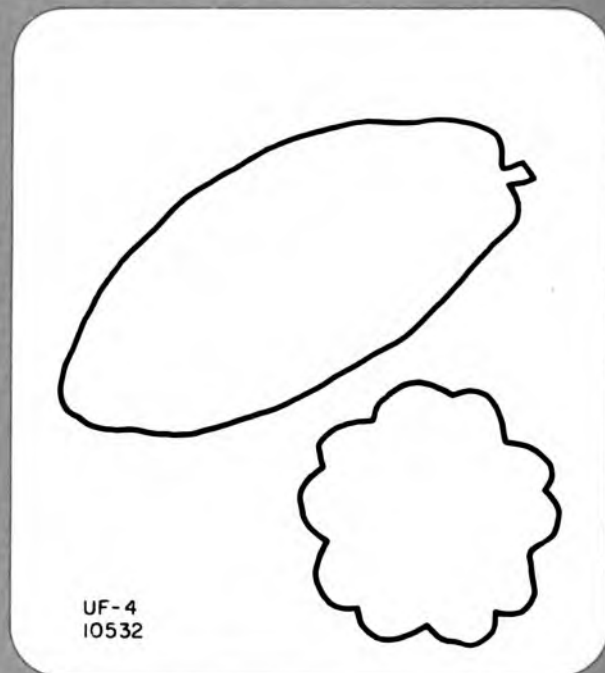




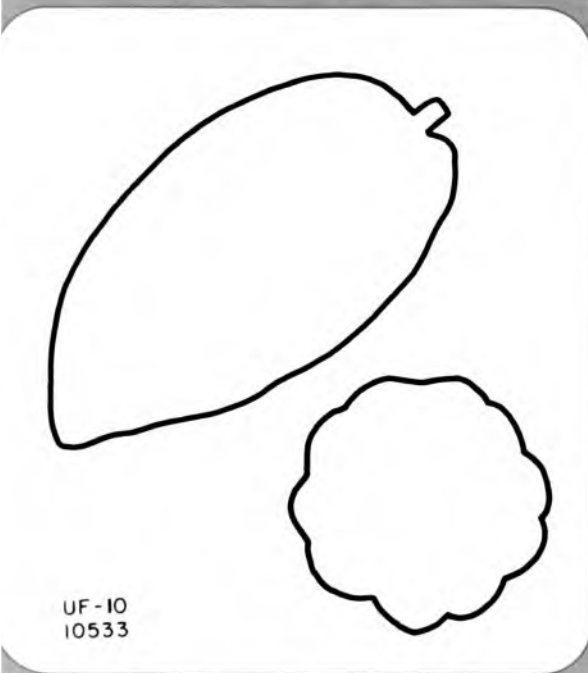
TSH-565
11672



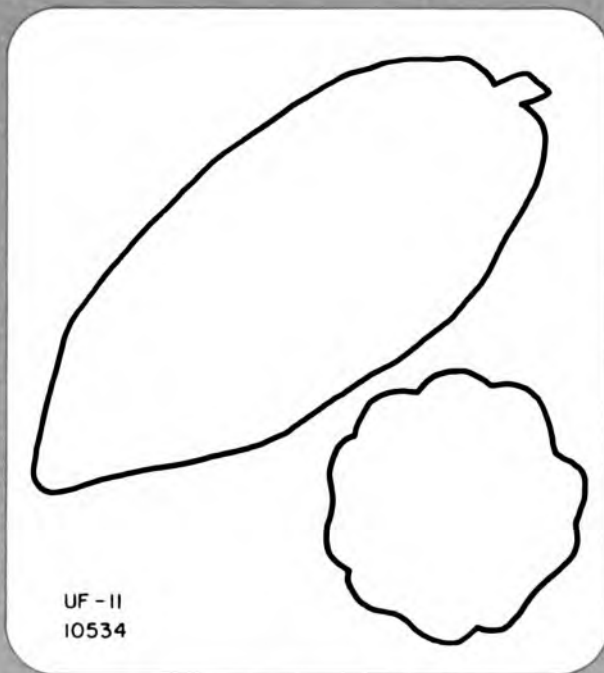
TSHA-664
10527



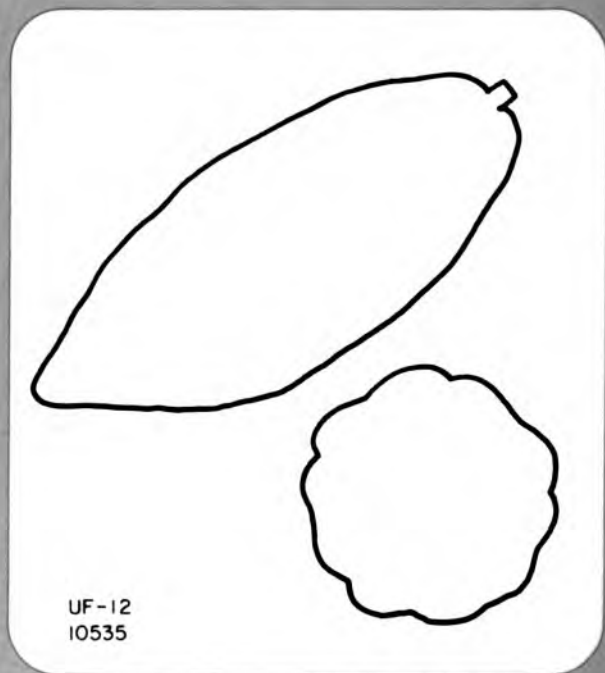
UF-4
10532



UF-10
10533

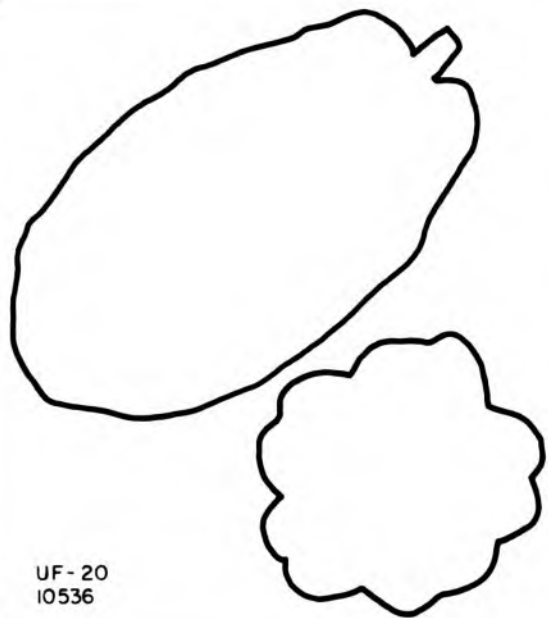


UF-11
10534

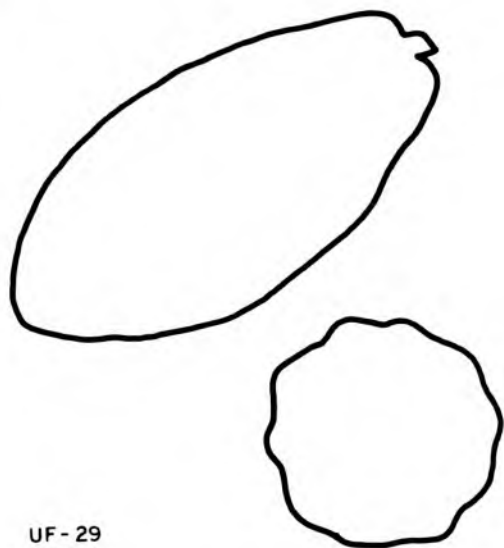


UF-12
10535

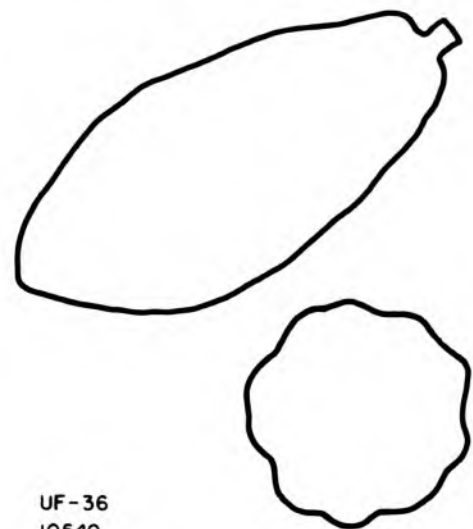




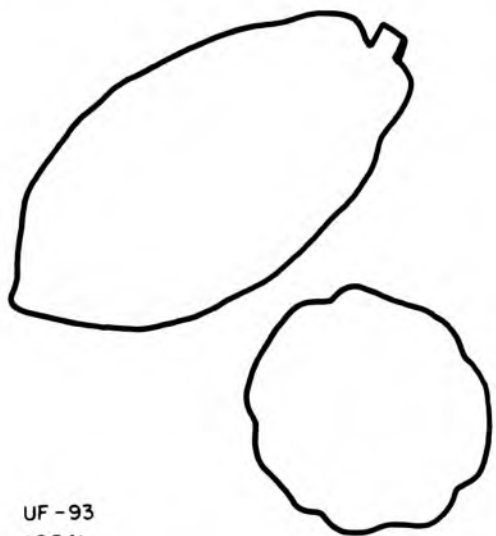
UF - 20
10536



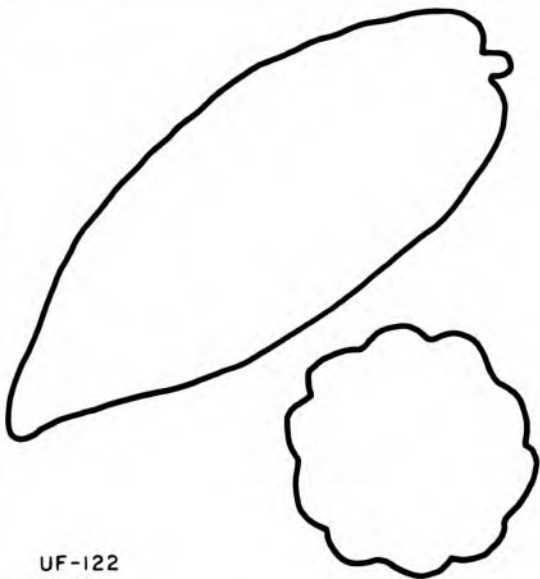
UF - 29
10537



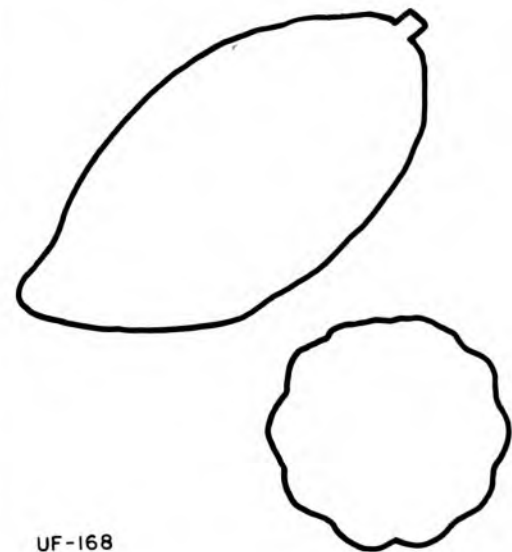
UF - 36
10540



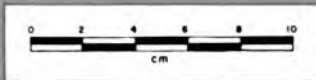
UF - 93
10541

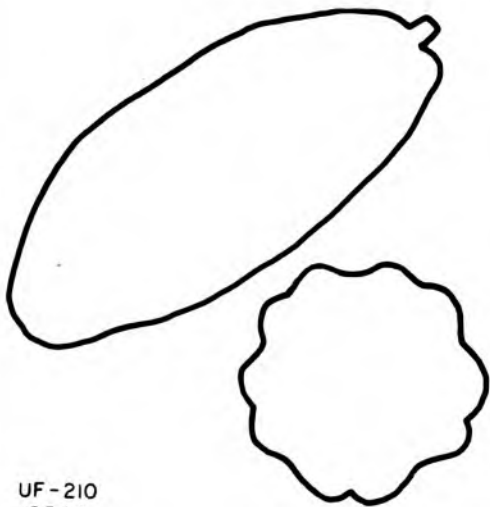


UF - 122
10542

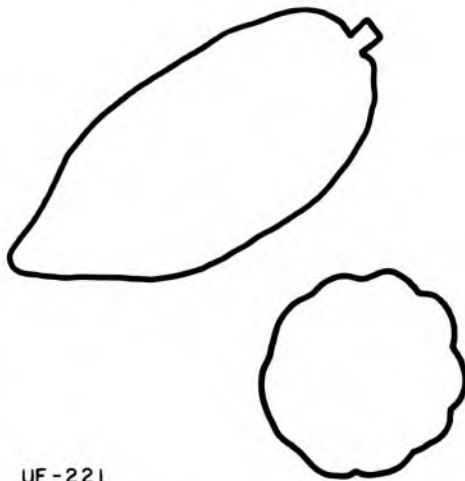


UF - 168
10543

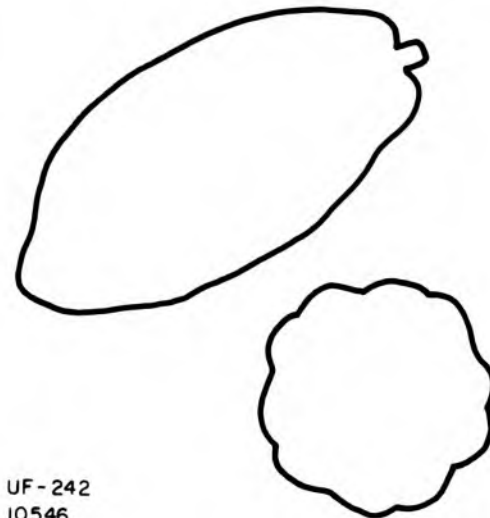




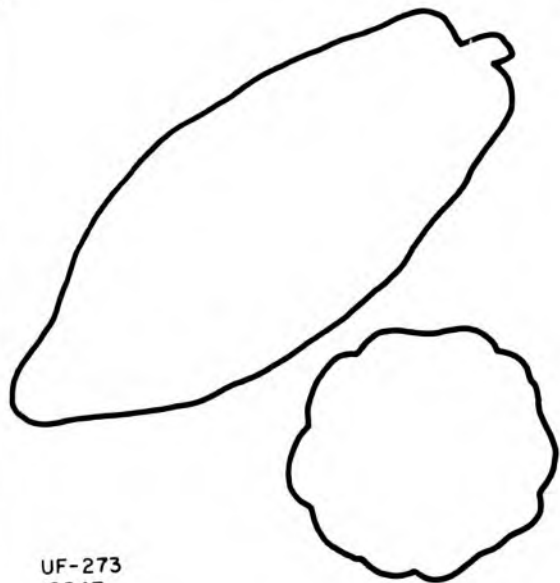
UF-210
10544



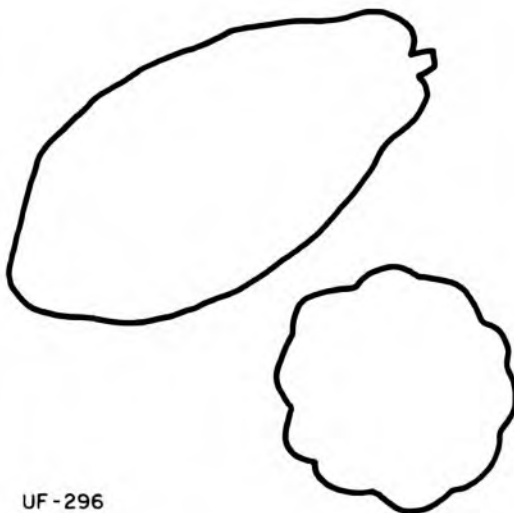
UF-221
10545



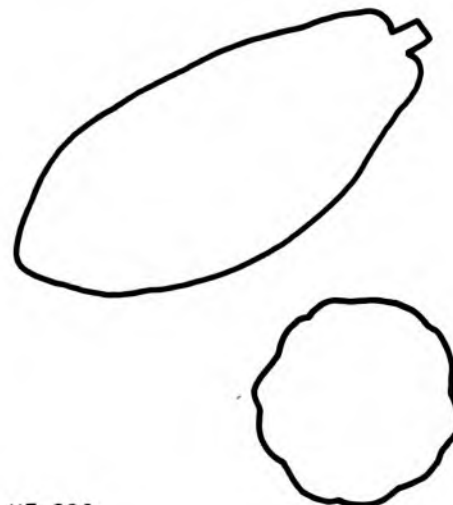
UF-242
10546



UF-273
10547

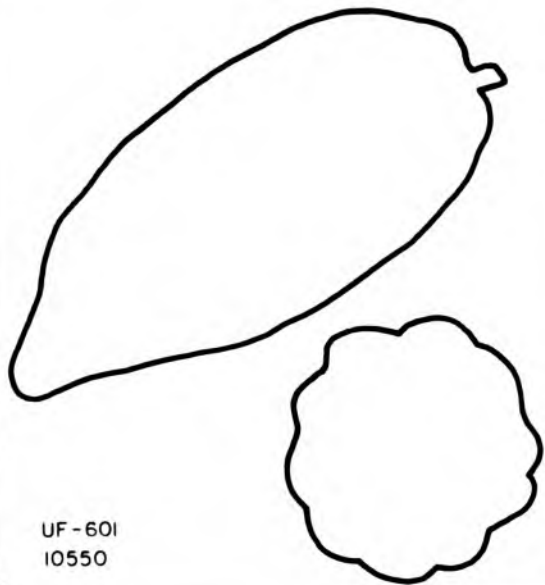


UF-296
10548

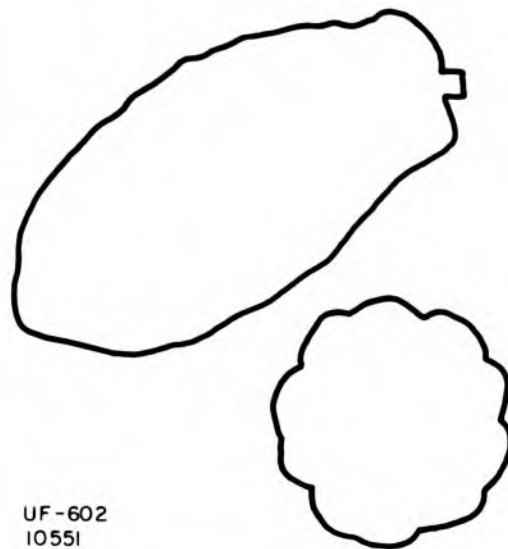


UF-296
10549

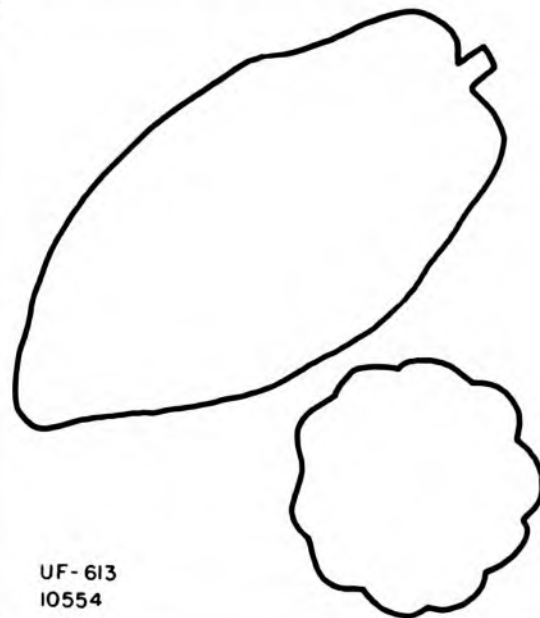




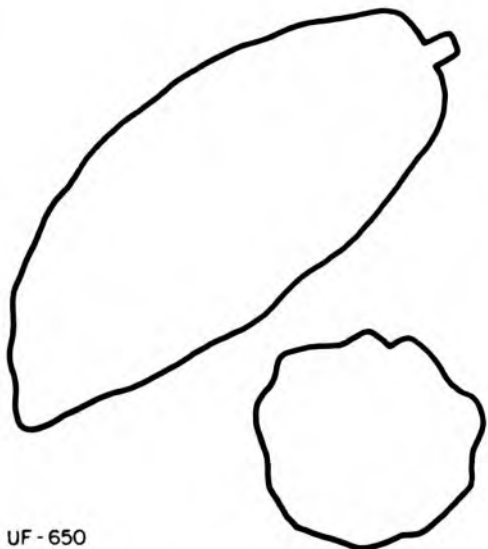
UF - 601
10550



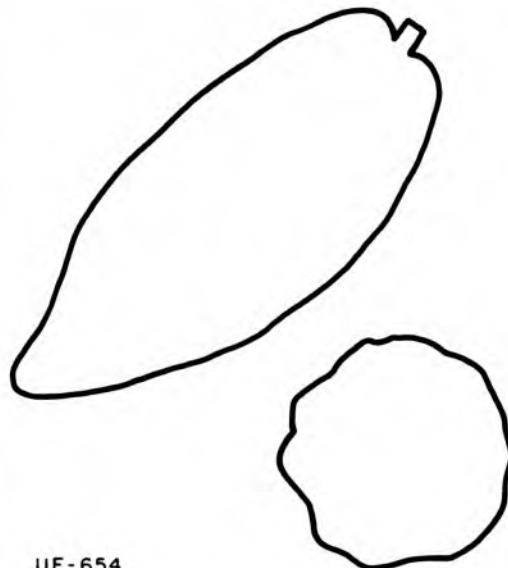
UF - 602
10551



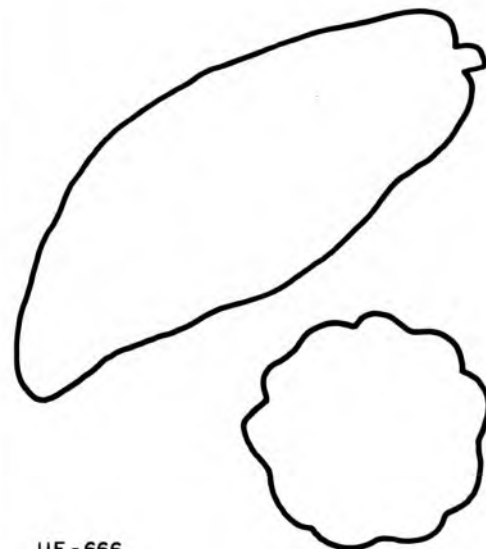
UF - 613
10554



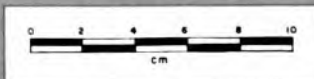
UF - 650
10557

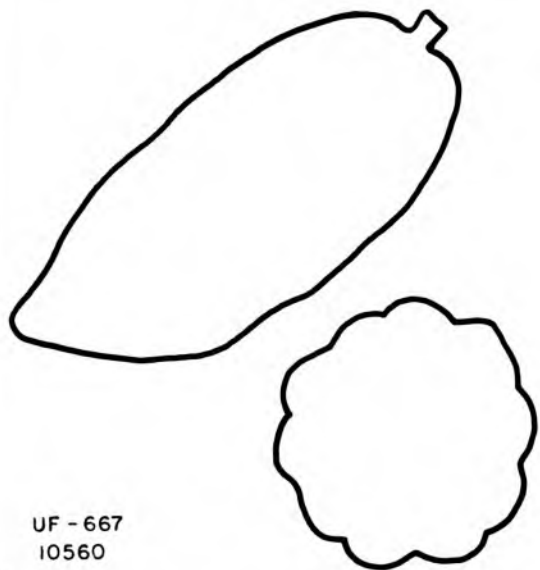


UF - 654
10558

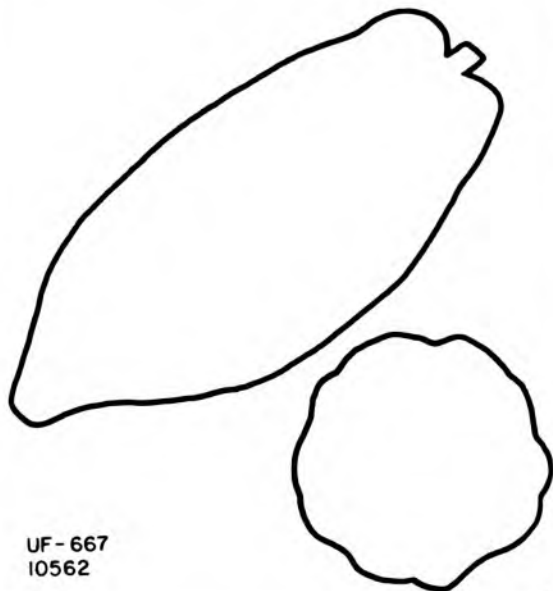


UF - 666
10559

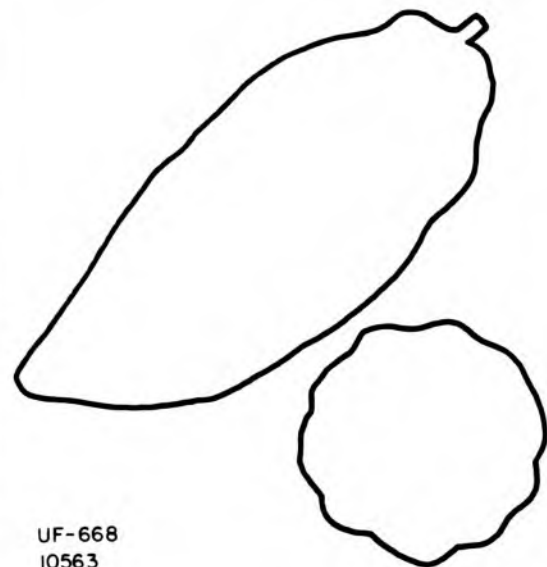




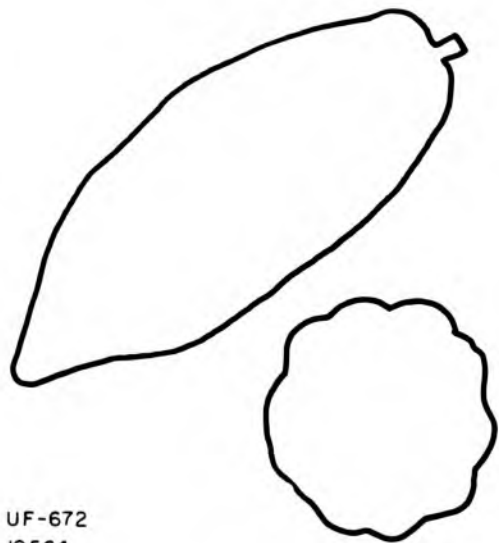
UF - 667
10560



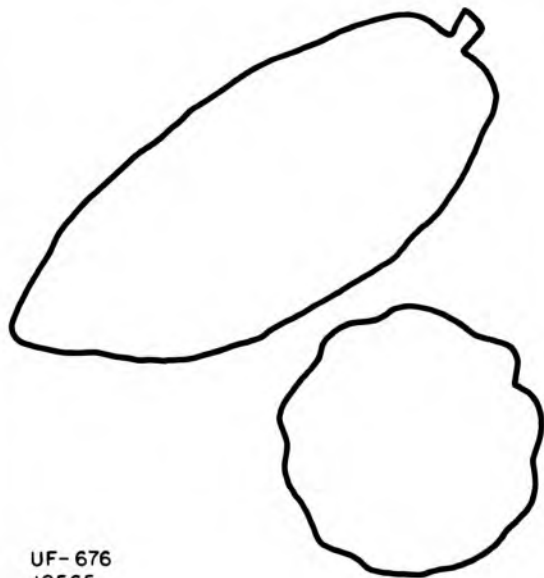
UF - 667
10562



UF - 668
10563



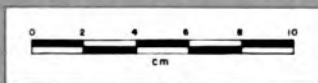
UF - 672
10564

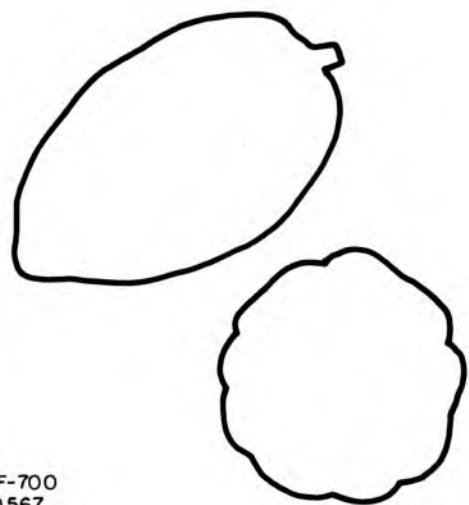


UF - 676
10565

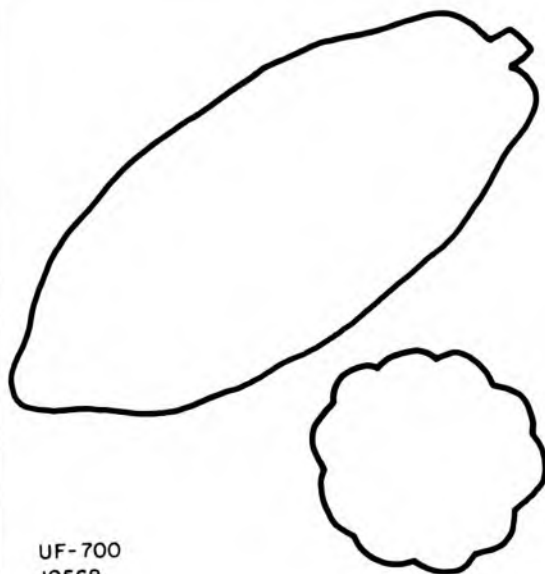


UF - 677
10566

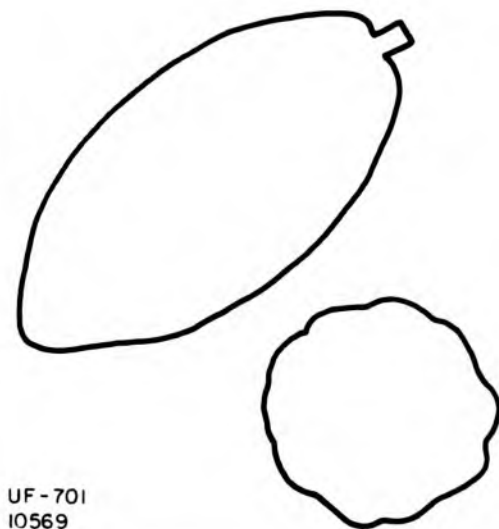




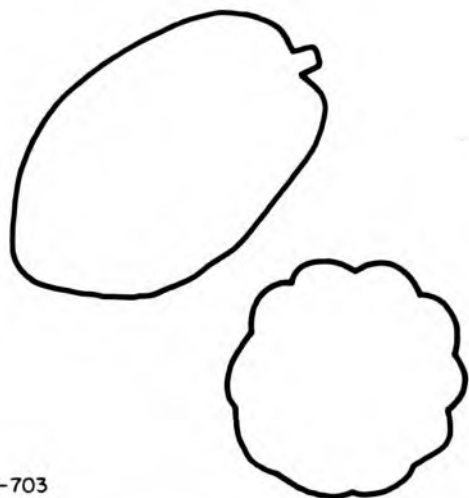
UF-700
10567



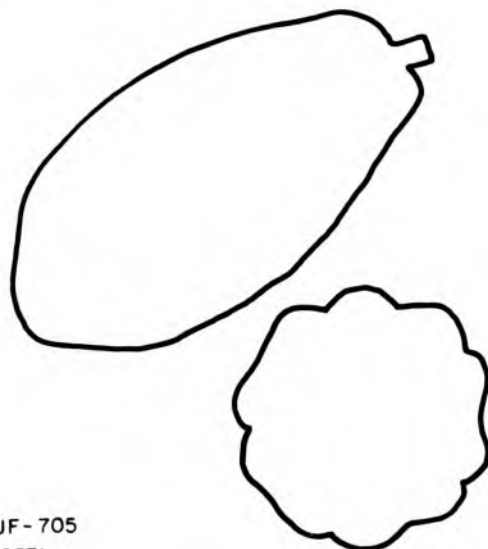
UF-700
10568



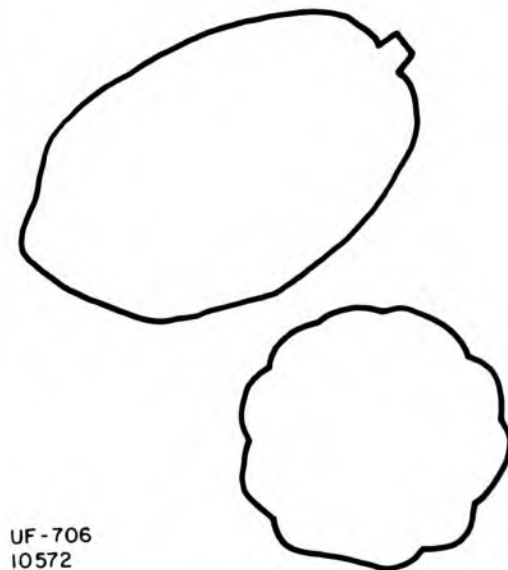
UF-701
10569



UF-703
10570

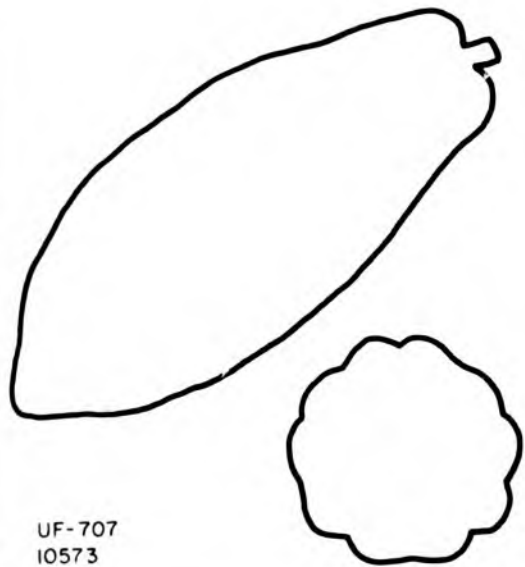


UF-705
10571

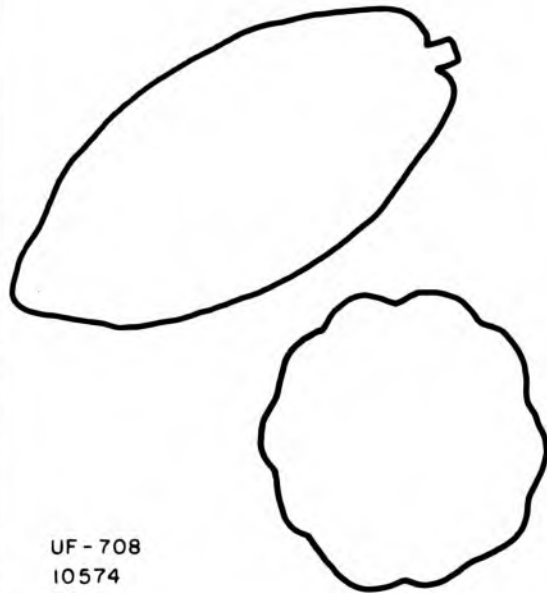


UF-706
10572

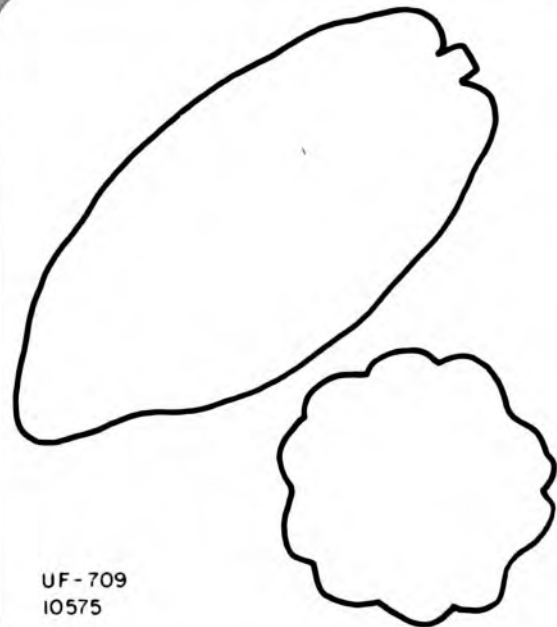




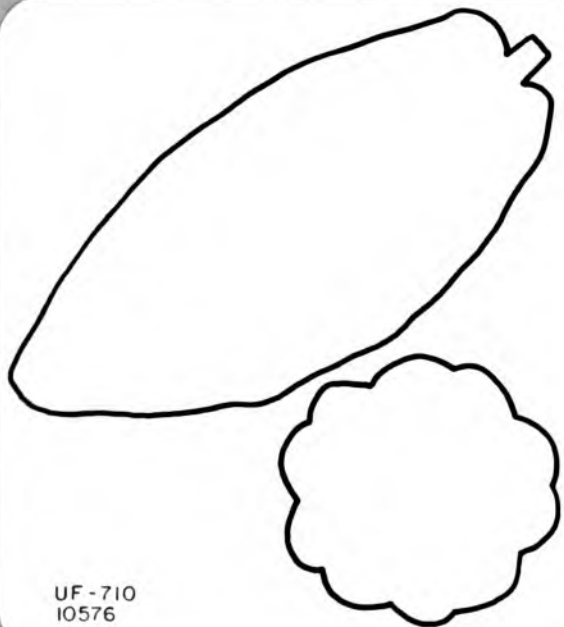
UF-707
10573



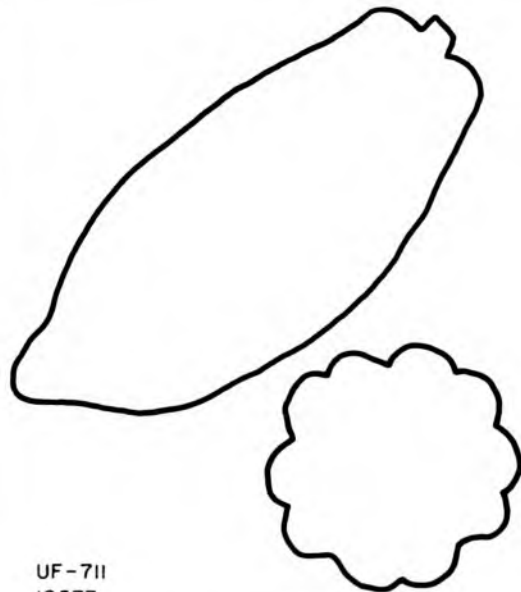
UF-708
10574



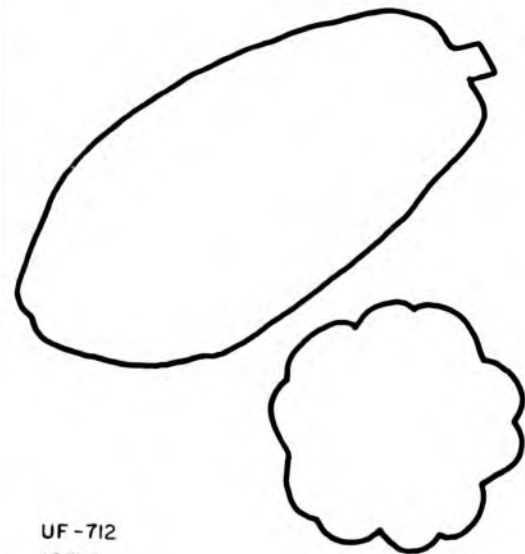
UF-709
10575



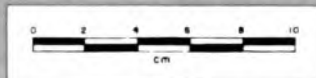
UF-710
10576

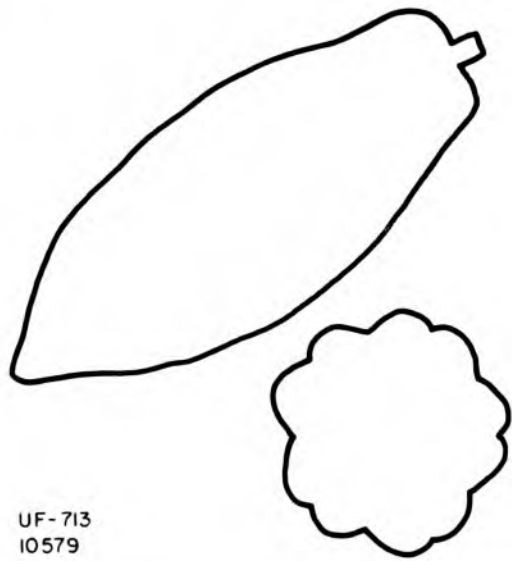


UF-711
10577

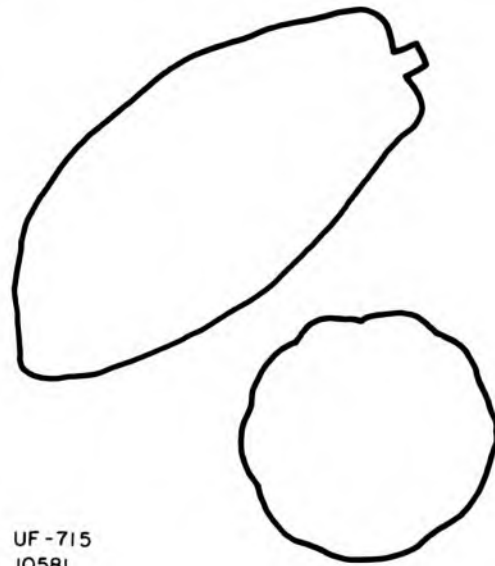


UF-712
10578

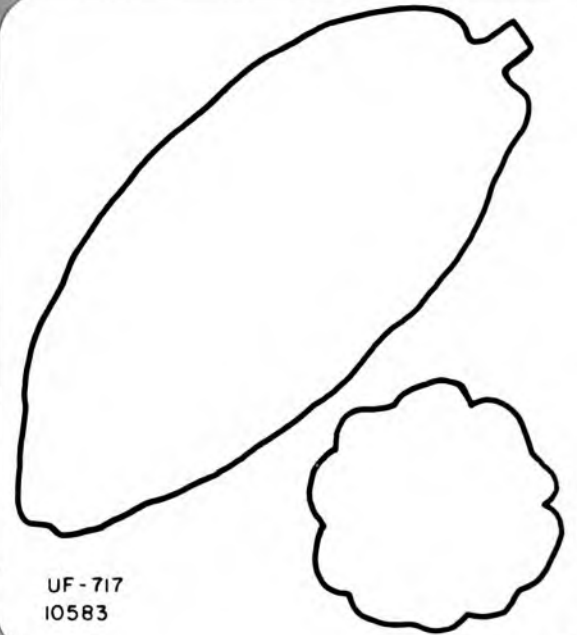




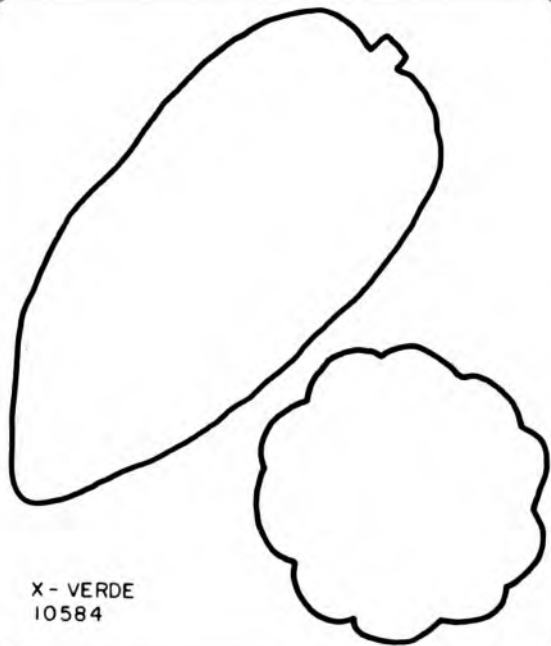
UF-713
10579



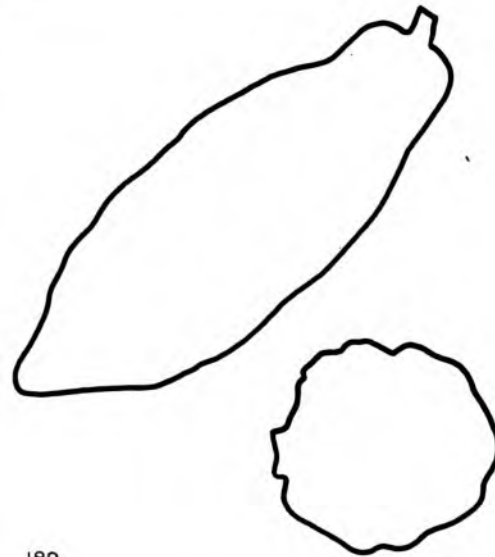
UF-715
10581



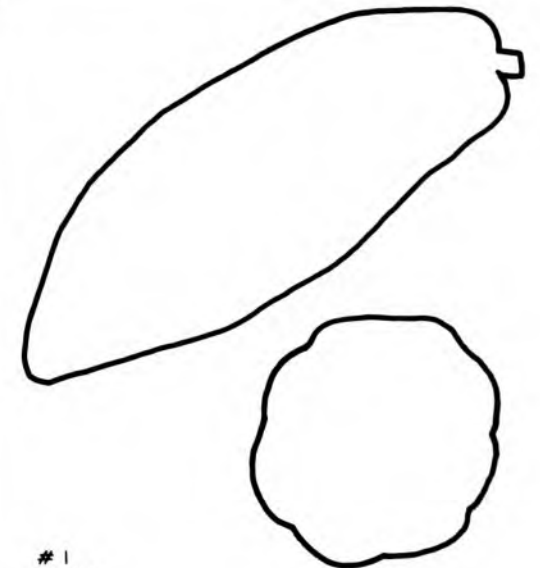
UF-717
10583



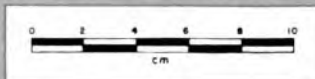
X-VERDE
10584



189
10585



1
10586



Appendix A
Alphabetical list of accession name acronyms,
country and locality of origin

ACRONYM	ORIGIN	COLLECTING SOURCE
APA	Colombia	Amazónico Palmira
BE	Brazil	Belém
BS	Honduras	Buenos Aires
CAS	Brazil	Cacau Amazónico Santarém
Catongo	Brazil	Name of farm
CC	Costa Rica	Centro de Cacao, Turrialba
CHUAO	Venezuela	Name of valley
CNS	Venezuela	Caño Negro, Selección
C. SUL	Brazil	Cruzeiro do Sul
CU	Honduras	Cuyamel
Diamantes	Costa Rica	Experimental Station "Los Diamantes"
DR	Indonesia	Djiti Roengen
EEG	Brazil	Estação Experimental de Goitacás
EET	Ecuador	Estación Experimental Tropical, Pichilingue
G	Indonesia	Getas
GA	Haití	Grand Anse Bay
GC	Jamaica	
GS	Grenada	Grenada Selection
ICS	Trinidad	Imperial College Selection
IMC	Perú	Iquitos
IQ	Perú	Iquitos
JACA	Brazil	Leaf shape of 'jack fruit'
Laranja	Brazil	Shape of orange
La Esmida	México	
I afi	Samoa	Name of village
LF	Costa Rica	La Fortuna, name of village
MA	Brazil	Manaus
Matina	Costa Rica	Name of village

ACRONYM	ORIGIN	COLLECTING SOURCE
NA	Peru	Nanay, name of village
OC	Venezuela	Ocumare de la Costa
P	Peru (?)	Peru (?)
P	Mexico (?)	Particular
Pa	Peru	Parinari (Peruvian Amazon)
Pará	Brazil	Name of state
Pentagona	Mexico	Pentagonal shape
Porcelana	Venezuela	
Pound	Peru	Selection made by Pound
PV	Venezuela	Porcelana Venezolano
R	Mexico	Rosario Izapa selection
RB	Brazil	Rio Branco, name of river
Santa Clara	Costa Rica	Name of village
SC	Colombia	Selección Cacao
SCA	Ecuador	Scavina, name of farm
SCR	Costa Rica	San Cristóbal, name of village
SGU	Guatemala	Selección Guatemala
SIAL	Brazil	Seleção Instituto Agronómico do Este
SIC	Brazil	Seleção Instituto de Cacao
SM	Brazil	São Manoel, name of village
SNK	Cameroun	Station of N'Koemoone
SPA	Colombia	Selection Palmira
STICA	Costa Rica	Servicio Técnico Internacional de Cooperación Agrícola
TJ	Honduras	Taujica
TSAN	Trinidad	Amazonian Selection of Trinidad
TSH	Trinidad	Trinidad selection hybrid
TSHN	Trinidad	Hybrid selection of Trinidad
UF	Costa Rica	United Fruit Company
X-Verde	Venezuela	Origin of green fruit unknown
Mexico	Mexico	Mexico
Mocorongo	Brazil	
MT	Honduras	Montes

Appendix B

List of colour codes used and their meaning

Explanation of the colour codes as used in Methuen handbook of colour. The codes are in numerical order by table number (=hue); by alphabetical order of their gradations in shading (=tone), and finally by number of their degree of density (=intensity). If several intensities or tones share the same name, they are listed together, connected by a dash.

1 A 2	yellowish white
1 B 4-6	grayish yellow
1 C 4-7	grayish green
1 C 8	deep green
1 D 5-6	grayish green
2 B 4	grayish yellow
2 C 4-5	grayish yellow
2 C 6	olive yellow
3 C 4-5	grayish yellow
3 C 7	olive yellow
4 A 5	light yellow
4 B 3-4	grayish yellow
4 C 4	blond
4 C 5	grayish yellow
4 D 4-7	olive brown
4 E 5-7	olive brown

5 B 4	grayish orange
5 C 4-5	brownish orange
5 C 7	brownish yellow
5 D 4	dark blond
5 D 5-7	light brown
5 E 4-8	yellowish brown
6 B 4	grayish orange
6 C 4-7	brownish orange
6 D 5-8	light brown
6 E 5-7	brown
7 A 2	reddish white
7 B 4	grayish red
7 C 4-7	brownish orange
7 D 4-8	light brown
7 E 6-7	brown
8 A 2	reddish white
8 A 3	pale red
8 B 5	grayish red
8 C 5	grayish red
8 C 6-7	brownish red
8 D 5-8	reddish brown
8 E 5-8	reddish brown
9 A 2	reddish white
9 A 3	pale red

9 A 4-5	pastel red	29 D 5-7	grayish green
9 B 6	grayish red	29 D 8	deep green
9 C 5-7	brownish red	29 E 5-7	green
9 D 5-8	reddish brown	29 E 8	deep green
9 E 6-8	reddish brown		
9 E 8	dark brown		
		30 A 3	pale green
10 A 2	reddish white	30 A 4	pastel green
10 A 3	pale red	30 A 5	light green
10 A 4-5	pastel red	30 B 3-6	grayish green
10 B 5-6	grayish red	30 C 4-7	grayish green
10 C 5-6	brownish red	30 D 3-4	dull green
10 D 5-8	brownish red	30 D 5-7	grayish green
10 E 4-8	violet brown	30 D 8	deep green
10 F 4-7	violet brown	30 E 5-7	green
		30 E 8	deep green
		30 F 7-8	dark green
			\
11 A 2	reddish white		
11 A 4-6	pink		
11 B 5	grayish pink		
11 C 5	grayish red		
11 D 4	grayish red		
11 D 6-7	brownish violet		
11 E 5-7	violet brown		
12 A 2	reddish white		
12 A 3	pale red		
12 D 4	grayish ruby		
28 B 3-4	grayish green		
28 C 4	grayish green		
28 D 5	grayish green		
28 D 8	deep green		
28 E 5-7	green		
28 E 8	deep green		
28 F 7	dark green		
29 B 2	greenish gray		
29 B 3-4	grayish green		
29 C 3-7	grayish green		
29 D 4	dull green		

Appendix C

List of TUR accession numbers of cacao clones having desirable characteristics or combinations of characteristics in common

For the convenience of the reader/potential user, a list is presented of clones having desirable characteristics in common. For each descriptor state or combination of states, the accession numbers are listed, the number of accessions showing this combination, and the proportion of all the clones (expressed as a percentage). The descriptor states are selected arbitrarily, based on common agronomic or breeding criteria. The following descriptors and their states present a series of desirable characteristics.

descriptor/combination	descriptor state(s)
1 fruit index	a) ≤ 20.0 and b) ≤ 15.0
2 seed index	a) ≥ 1.5 and b) ≥ 1.75
3 maximum seed number	a) ≥ 50 and b) ≥ 55
4 ratio of seed number/ fruit weight	≥ 0.085
5 presence of white seeds	+
6 self-compatibility	+
7 combination of 1 and 2	≤ 20.0 and ≥ 1.5 ; ≤ 15.0 and ≥ 1.75
8 combination of 1, 2, and 3	≤ 20.0 , ≥ 1.5 and ≥ 50
9 combination of 1, 2, and 4	≤ 25.0 , ≥ 1.0 and ≥ 0.075
10 combination of 1, 2, and 6	≤ 20.0 , ≥ 1.5 and +
11 combination of 3 and 4	≥ 50 and ≥ 0.085
12 combination of 5 and 6	+ and +

Fruit index \leq 20.0

Result: 55 (18.7%) accessions out of the 294 which were studied.

10133	10236	<u>10374</u>	<u>10534</u>
10134	10237	10376	10543
10135	10268	10415	10545
10140	10272	10417	<u>10550</u>
10155	10275	10419	10551
<u>10159*</u>	10279	10436	10557
10162	10296	10443	10558
10168	10297	10444	10562
10170	10309	10467	10568
10175	10311	10481	10574
10181	10313	<u>10493</u>	10576
10204	10318	10507	10577
10227	10329	10511	<u>10584</u>
10228	10333	<u>10533</u>	

* The underlined accessions have a fruit index $<$ 15.0 (result 7 – 2,4% of the accessions).

Seed index \geq 1.5

Result: 65 accessions or 22.1% out of the 294 which were studied.

<u>10133*</u>	10268	10415	10551
<u>10134</u>	10279	<u>10417</u>	<u>10557</u>
10136	<u>10296</u>	10418	<u>10558</u>
<u>10140</u>	10297	10419	10559
10155	10309	10420	<u>10560</u>
<u>10159</u>	10311	<u>10437</u>	<u>10562</u>
10160	10313	10443	<u>10565</u>
10161	<u>10316</u>	10444	<u>10566</u>
<u>10162</u>	10318	<u>10467</u>	<u>10568</u>
10168	10325	<u>10493</u>	10573
10170	10326	10504	10574
10171	10329	<u>10533</u>	10577
10175	10333	<u>10534</u>	<u>10584</u>
10177	10345	<u>10535</u>	10586
10179	<u>10374</u>	10542	
10181	10376	<u>10543</u>	
10236	10407	<u>10550</u>	

* The underlined accessions have an average dry seed weight of 1.75 g or more (result 25 – 8.5% – of the accessions).

Maximum seed number ≥ 50

Result: 68 accessions (23.1%) out of the 294 which were studied.

10113	10256	10380	10497
10143	10257	10398	10507
<u>10188*</u>	10260	10399	<u>10509</u>
<u>10189</u>	10267	10400	<u>10510</u>
10195	10268	<u>10401</u>	10511
10202	10273	<u>10407</u>	<u>10524</u>
<u>10204</u>	10276	10448	10525
10205	10282	10452	10526
10209	<u>10285</u>	10458	<u>10527</u>
<u>10211</u>	<u>10286</u>	<u>10464</u>	10532
10212	10288	10465	10537
10224	10311	10466	10540
<u>10231</u>	10313	10484	10546
10232	<u>10339</u>	10487	10548
10237	<u>10341</u>	10489	<u>10549</u>
<u>10243</u>	<u>10351</u>	10491	10567
10251	10368	10496	10572

* The underlined accessions have a maximum seed number > 55 .

Ratio of seed number/fruit weight ≥ 0.085

Result: 31 (10.5%) accessions out of the 294 which were studied.

<u>10145*</u>	<u>10237</u>	10368	10464
<u>10190</u>	<u>10243</u>	<u>10381</u>	<u>10473</u>
10191	10245	<u>10385</u>	<u>10478</u>
<u>10192</u>	10254	10448	<u>10488</u>
10195	10256	10449	10494
10204	<u>10258</u>	<u>10450</u>	10497
<u>10211</u>	<u>10344</u>	<u>10452</u>	10548
10221	10351	<u>10456</u>	

* The underlined accessions have a ratio > 0.090 .

Presence of white seeds

Result: 50 (17.0%) accessions out of the 294 which were studied.

10103	10333	10437	10535
10113	10338	10438	10541
10114	10368	10441	10543
10125	10376	10443	10557
10128	10382	10448	10559
10166	10397	10457*	10562
10219	10407	10458	10565
10236	10417	10477	10566
10289	10418	10498	10584
10290	10419	10499	10585
10325	10420	10517	11672
10326	10421	10533	
10329	10436	10534	

* The cotyledon colour of this accession is greyish white.

Self-compatibility

Result: 49 (16.7%) accessions out of the 294 which were studied.

10132	10254	10388	10535
10133	10257	10389	10537
10143	10258	10419	10545
10144	10267	10457	10546
10146	10268	10458	10547
10149	10271	10475	10549
10151	10277	10482	10557
10161	10309	10484	10562
10169	10311	10486	10566
10171	10318	10487	10581
10177	10335	10488	
10179	10344	10495	
10180	10374	10504	

Fruit index \leq 20.0

Seed index \geq 1.5

Result: 42 (14.3%) accessions out of the 294 which were studied.

10133	10268	10376	<u>10550</u>
10134	10279	10415	10551
10140	10296	10417	10557
10155	10297	10419	10558
<u>10159*</u>	10309	10443	10562
10162	10311	10444	10568
10168	10313	10467	10574
10170	10318	<u>10493</u>	10577
10175	10329	<u>10533</u>	<u>10584</u>
10181	10333	<u>10534</u>	
10236	<u>10374</u>	10543	

* The underlined accessions have a fruit index $<$ 15.0, and a seed index $>$ 1.75

Fruit index \leq 20.0

Seed index \geq 1.5

Maximum seed number \geq 50

Result: three (1.0%) accessions out of the 294 which were studied.

10268 10311 10313

Fruit index \leq 25.0

Seed index \geq 1.0

Ratio of seed number/fruit weight \geq 0.075

Result: eight (2.7%) accessions out of the 294 which were studied.

10143 10293 10524 10540
10251 10496 10537 10548

Fruit index ≤ 20.0

Seed index ≥ 1.5

Self-compatibility

Result: nine (3.1%) accessions out of the 294 which were studied.

10133	10311	10419
10268	10318	10557
10309	10374	10562

Maximum seed number ≥ 50

Ratio of seed number/fruit weight ≥ 0.085

Result: 13 (4.4%) accessions out of the 294 which were studied.

10195	10243	10448	10548
10204	10256	10452	
10211	10351	10464	
10237	10368	10497	

Presence of white seeds

Self-compatibility

Result: six (2.0%) accessions out of the 294 which were studied.

10419	10535	10562
10458	10557	10566

Appendix D

Statistical magnitudes of quantitative and qualitative characteristics

For the classed qualitative descriptors the absolute and percentage *frequency distributions* are presented.

For the quantitative descriptors the *mean value*, the *coefficient of variation (CV)*, the *range* (minimum and maximum value), *skewness* (a negative value indicates that the mode of the population is on the right side of the mean, and a positive value on the left side), *kurtosis* (a normal distribution has a kurtosis of 0.26; if the value is smaller the curve is flattened – platy-kurtosis – and if the value is larger than 0.26 the curve is peaked and slender), and *number of observations* are given.

QUALITATIVE DESCRIPTORS

Descriptor	Code	Number of accessions	Percentage
Collecting source	1	2	0.7
	2	81	27.6
	3	150	51.0
Type of pollination	1	56	19.0
	2	29	9.9
Year of description	1978	90	30.6
	1979	110	37.4
	1980	92	31.3
	1981	2	0.7

Descriptor	Code	Number of accessions	Percentage
Month of description	1	16	5.4
	2	23	7.8
	3	16	5.4
	4	39	13.2
	5	61	20.7
	6	43	14.6
	7	54	18.4
	8	8	2.7
	9	0	0.0
	10	7	2.4
	11	17	5.8
	12	10	3.6
Presence of white cotyledons	0	245	83.3
	+	49	16.7
Presence of greyish white cotyledons	0	293	99.7
	+	1	0.3
Presence of light purple cotyledons	0	108	36.7
	+	186	63.3
Presence of dark purple cotyledons	0	114	38.8
	+	180	61.2
Presence of purple spotted cotyledons	0	267	90.8
	+	27	9.2
Anthocyanin intensity in ridges	0	192	65.3
	1	12	4.1
	2	10	3.4
	3	13	4.4
	4	2	0.7
	5	2	0.7
	6	0	0.0
7	2	0.7	

Descriptor	Code	Number of accessions	Percentage
	8	9	3.0
	9	52	17.7
Anthocyanin intensity in primary furrows	0	222	75.5
	1	6	2.0
	2	2	0.7
	3	4	1.4
	4	2	0.7
	5	3	1.0
	6	0	0.0
	7	18	6.1
	8	18	6.1
	9	19	6.5
Anthocyanin intensity in ridges of ripe fruits	0	230	78.1
	1	4	1.4
	2	2	0.7
	3	1	0.4
	4	1	0.4
	5	21	7.1
	6	6	2.0
	7	18	6.1
	8	10	3.4
	9	1	0.4
Anthocyanin intensity in furrows of ripe fruits	0	245	83.2
	1	3	1.0
	2	8	2.7
	3	8	2.7
	4	4	1.4
	5	19	6.5
	6	2	0.7
	7	4	1.4
	8	1	0.4
	9	0	0.0

Descriptor	Code	Number of accessions	Percentage
Anthocyanin intensity in ligule	0	92	31.5
	1	3	1.0
	2	5	1.7
	3	134	45.7
	4	0	0.0
	5	0	0.0
	6	0	0.0
	7	59	20.1
	8	0	0.0
	9	0	0.0
Anthocyanin intensity in stamen filament	0	142	48.4
	1	2	0.7
	2	0	0.0
	3	103	35.2
	4	0	0.0
	5	2	0.7
	6	0	0.0
	7	44	15.0
	8	0	0.0
	9	0	0.0
Anthocyanin intensity in upper part of ovary	0	224	76.2
	1	1	0.4
	2	0	0.0
	3	45	15.3
	4	0	0.0
	5	0	0.0
	6	0	0.0
	7	24	8.1
	8	0	0.0
	9	0	0.0
Self-compatibility	0	245	83.3
	+	49	16.7

Descriptor	Code	Number of accessions	Percentage
Reaction to <i>Phytophthora palmivora</i>	R	6	2.0
	S	11	3.7
	T	2	0.7
	T-R	23	7.8
Reaction to <i>Crinipellis pernicioso</i>	R	4	1.4
	S	18	6.1
	T-R	10	3.4
	M-R	1	0.4
Reaction to <i>Monilia roleri</i>	S	13	4.4
Reaction to <i>Ceratocystis fimbriata</i>	R	4	1.4
	S	8	2.8
	T	10	3.4
	T-R	9	3.1

QUANTITATIVE DESCRIPTORS

Descriptor	Mean	CV	Minimum	Maximum	Skewness	Kurtosis
Fruit index	26.7	29	13.5	60.1	1.05	1.57
Seed index (dry seed weight)	1.23	28	.55	2.23	.62	-.03
Production	4.8	32	1.0	9.0	-.19	-.91
Maximum seed number	47.	11	30.	67.	.27	1.39
Wet seed weight	1.95	28	.92	3.39	.58	-.24
Ratio dry/wet seed weight	0.64	6	.50	.77	-0.09	1.12
Seed number per fruit	34.1	12	10.7	45.2	-0.77	3.32
Ratio seed number/max. seed number	0.73	11	.27	0.88	-1.69	8.21

Descriptor	Mean	CV	Minimum	Maximum	Skewness	Kurtosis
Ratio seed number/fruit weight	0.064	28	.028	.148	0.79	1.76
Seed length	24.40	9	19.6	30.0	0.22	-0.19
Ratio seed width/seed length	0.54	8	.36	.81	0.46	5.36
Seed width	13.1	13	7.40	17.3	0.02	-0.29
Seed thickness	9.	13	6.5	11.7	0.30	-0.78
Fruit length	174.	15	69.	241.	0.03	0.32
Fruit width	86.	8	69.	108.	0.44	0.18
Ratio fruit width/fruit length	0.51	16	.35	1.07	1.50	6.57
Ratio distance widest part/fruit length	0.51	7	.43	.61	0.35	0.93
Fruit weight	570.	8	208.	1171.	0.88	1.06
Fruit wall thickness (ridge)	12.50	16	8.2	18.6	0.35	-0.15
Fruit wall thickness (furrow)	7.9	18	4.8	14.9	.94	2.09
Ridge pair separation	.73	15	.11	.98	-.45	2.64
Primary furrow depth	3.9	41	1.0	9.0	.41	-0.42
Fruit surface rugosity	3.8	44	0.0	9.0	.30	0.01
Fruit apex form	4.6	39	0.0	9.0	.10	-0.18
Basal fruit constriction	1.8	100	0.0	9.0	1.13	0.86
Mesocarp hardness	5.0	33	1.0	7.0	-0.04	-1.35
Style length	2.27	12	1.35	3.14	0.33	0.78
Ovary length	1.36	12	1.02	2.20	-0.58	13.37
Ovary width	1.00	7	.82	1.53	3.73	26.37
Staminode length	7.49	9	4.00	9.13	-.73	2.54
Sepal length	8.66	9	6.23	11.44	-.24	0.47

Descripto	Mean	Cv	Minimum	Maximum	Skewness	Kurtosis
Sepal width	2.33	9	1.90	2.85	0.34	-0.31
Petal length	7.69	11	4.93	10.46	0.06	0.78
Ligule width	2.53	14	1.60	3.71	0.37	0.08

Appendix E
Alphabetic listing of the accessions of cacao
Theobroma cacao L.

No.	Name	Page	No.	Name	Page
10090	AMANA VEN	109	10142	CC-37	37
10091	APA-4	37	10143	CC-38	37
10092	APA-5	37	10144	CC-39	37
10099	BE-2	109	10145	CC-40	37
10100	BE-3	109	10146	CC-41	37
10101	BE-4	109	10147	CC-42	37
10102	BE-10	37	10148	CC-43	37
10103	BS-2	37	10149	CC-44	37
10104	CAAG	109	10150	CC-45	43
10107	CAR-1	109	10151	CC-46	43
10108	CAS-1	37	10152	CC-47	43
10109	CAS-3	37	10153	CC-48	43
10113	CATONGO BLANCO	37	10154	CC-49	43
10114	CATONGO BLANCO	37	10155	CC-52	43
10125	CATONGO-O	37	10156	CC-54	109
10128	CATONGO x SELF	37	10157	CC-60	109
10129	CATONGO URUCUCA	109	10158	CC-67	43
10132	CC-9	37	10159	CC-69	43
10133	CC-10	37	10160	CC-71	43
10134	CC-17	37	10161	CC-74	43
10135	CC-18	37	10162	CC-79	43
10136	CC-27	37	10163	CC-83	43
10137	CC-30	109	10164	CC-99	43
10138	CC-33	109	10165	CC-100	43
10139	CC-34	37	10166	CC-102	43
10140	CC-35	37	10167	CC-103	43

No.	Name	Page	No.	Name	Page
10168	CC-106	43	10207	CC-234	49
10169	CC-107	43	10208	CC-235	49
10170	CC-120	43	10209	CC-236	49
10171	CC-121	43	10210	CC-237	109
10172	CC-124	43	10211	CC-240	49
10173	CC-124	109	10212	CC-241	49
10175	CC-132	43	10213	CC-243	109
10177	CC-137	43	10214	CC-244	49
10178	CC-138	43	10215	CC-245	55
10179	CC-139	43	10216	CC-246	109
10180	CC-143	49	10217	CC-249	55
10181	CC-144	49	10218	CC-250	109
10182	CC-152	49	10219	CC-251	55
10183	CC-158	109	10220	CC-252	109
10184	CC-169	49	10221	CC-253	55
10185	CC-173	49	10222	CC-254	55
12874	CC-182	117	10223	CC-255	111
10186	CC-210	49	10224	CC-256	55
10187	CC-210	109	10225	CC-257	55
10188	CC-211	49	10226	CC-258	55
10189	CC-211	49	10227	CC-259	55
10190	CC-212	49	10228	CC-260	55
10191	CC-212	49	10229	CC-261	55
10192	CC-213	49	10230	CC-262	55
10193	CC-213	49	10231	CC-263	55
10194	CC-214	109	10232	CC-264	55
10195	CC-215	49	10233	Chuao-24	111
10196	CC-215	109	10234	Chuao-120	55
10197	CC-220	109	10235	CNS-22	111
10198	CC-221	109	10236	CNS-23	55
10199	CC-222	109	10237	COMUN TIPICO	55
10200	CC-223	109	10243	C. Sul-3	55
10201	CC-224	49	10246	CU-1 EN SEMI	111
10202	CC-225	49	10247	CU-1 EN SEMI	111
10203	CC-226	49	10248	CU-1	111
10204	CC-228	49	10249	CU-2	111
10205	CC-231	49	10250	CU-3	111
10206	CC-232	49	10251	DIAMANTES-800	55

No.	Name	Page	No.	Name	Page
10252	DR-1	111	10290	EET-400	67
10253	DR-38	111	10291	G-8	67
10254	EEG-25	55	10292	G-23	111
10255	EEG-27	55	10293	GA-11	67
10256	EEG-29	55	10295	GC-29	111
10257	EEG-48	55	10296	GS-29	67
10258	EEG-64	55	10297	GS-36	67
10259	EEG-65	61	10298	GS-78	111
10260	EET-12	61	10307	IAL-325	111
10261	EET-19	111	10308	IAL-339	111
10262	EET-41	61	10309	ICS-1	67
10263	EET-41	111	10310	ICS-1	111
10264	EET-48	61	10311	ICS-6	67
10265	EET-53	61	10312	ICS-8	111
10266	EET-59	61	10313	ICS-16	67
10267	EET-62	61	10314	ICS-32	111
10268	EET-64	61	10315	ICS-39	67
10269	EET-67	61	10316	ICS-40	67
10270	EET-75	61	10317	ICS-43	67
10271	EET-80	61	10318	ICS-44	67
10272	EET-94	61	10319	ICS-45	111
10273	EET-95	61	10320	ICS-46	113
10274	EET-96	111	10321	ICS-46	67
10275	EET-156	61	10322	ICS-47	113
10276	EET-162	61	10323	ICS-53	67
10277	EET-164	61	10325	ICS-60	67
10278	EET-183	61	10327	ICS-84	113
10279	EET-228	61	10326	ICS-89	67
10280	EET-250	61	10328	ICS-91	113
10281	EET-333	61	10335	ICS-95	67
10282	EET-338	61	10336	ICS-98	113
10283	EET-353	61	10337	ICS-100	67
10284	EET-364	111	10329	ICS-117	67
10285	EET-376	61	10338	ICS-133	67
10286	EET-377	61	10332	ICS-135	113
10287	EET-390	111	10333	ICS-137	67
10288	EET-397	61	10330	ICS-138	113
10289	EET-399	67	10339	IMC-60	67

No.	Name	Page	No.	Name	Page
10340	IMC-67	113	10390	PA-81	73
10341	IMC-67	67	10391	PA-121	73
10342	IQ-1	113	10392	PA-121	73
10343	JACA	67	10393	PA-169	73
10344	LARANJA	73	10394	PARA	113
10345	LA ESMIDA	73	10397	PORCELANA-3	73
10346	LA ESMIDA	73	10398	POUND-7	73
10347	LAFI-7	113	10399	POUND-7	79
10348	LF-1	113	10400	POUND-12	79
10349	LF-2	113	10401	POUND-12	79
10350	LF-3	113	10404	PV-2	113
10351	MA-12	73	10407	PV-4	79
10352	MA-13	73	10413	PV-6	115
10353	MATINA	73	10415	R-2	79
10357	MEX-5	113	10416	R-6	115
10361	MEX-11	113	10417	R-8	79
10362	MEX-12	113	10418	R-9	79
10363	MEX-14	113	10419	R-10	79
10368	MOCORONGO	73	10420	R-13	79
10369	MT-1	113	10421	R-15	79
10371	MUTACION UPALA	33	10422	R-19	79
10372	NA-34	73	10423	R-21	115
10374	OC-77	73	10424	R-23	115
10375	P-8	113	10425	R-24	115
10376	P-10	73	10426	R-30	115
10377	P-11	113	10427	R-39	115
10378	P-12	113	10428	R-41	115
10379	P-15	73	10429	R-43	115
10380	P-16	73	10430	R-44	115
10381	P-19	73	10431	R-48	115
10382	P-19	73	10432	R-52	115
10383	P-20	73	10433	R-56	115
10384	P-22	113	10434	R-68	115
10385	P-23	73	10435	R-71	79
10386	P-43	113	10436	R-75	79
10387	PA-13	73	10437	R-76	79
10388	PA-16	73	10438	R-78	79
10389	PA-16	73	10439	R-100	115

No.	Name	Page	No.	Name	Page
10440	R-101	115	10479	SIAL-42	85
10441	R-105	79	10480	SIAL-44	85
10442	R-106	115	10481	SIAL-56	85
10443	R-113	79	10482	SIAL-70	85
10444	R-117	79	10483	SIAL-93	85
10445	RB-29	115	10484	SIAL-163	85
10446	RB-29	115	10485	SIAL-169	117
10447	RB-34	79	10486	SIAL-325	85
10448	RB-39	79	10487	SIAL-407	85
10449	RB-39	79	10488	SIC-1	85
10450	RB-41	79	10489	SIC-1	85
10451	RB-43	115	10490	SIC-2	85
10452	RB-46	79	10491	SIC-6	91
10453	RB-47	115	10492	SIC-7	91
10454	RB-49	115	10493	SIC-28	91
10456	SANTA CLARA-3	79	10494	SIC-256	91
10457	SC-5	79	10495	SIC-329	91
10458	SC-6	85	10496	SIC-433	91
10459	SC-13	115	10497	SIC-802	91
10460	SC-24	115	10498	SIC-806	91
10461	SC-49	115	10499	SIC-813	91
10462	SC-51	117	10503	SM-2	117
10463	SCA-6	117	10504	SNK-12	91
10464	SCA-6	85	10505	SPA-4	117
10465	SCA-9	85	10506	SPA-5	91
10466	SCA-12	85	10507	SPA-7	91
10467	Scr-4	85	10508	SPA-9	91
10468	Scr-5	85	10509	SPA-10	91
10471	SGU-3	85	10510	SPA-11	91
10472	SGU-4	85	10511	SPA-12	91
10469	SGU-60	85	10212	SPA-17	91
10470	SGU-63	117	10513	STICA-100	117
10473	SGU-69	85	10514	T. ANGUSTIFOLIA	24
10474	SGU-71	85	10515	T. BICOLOR	25
10475	SGU-82	85	10516	T. GRANDIFLORA	26
10476	SGU-84	117	10517	T.J.-1	91
10477	SGU-89	85	10520	T. MAMMOSUM x T. SIM.	32
10478	SIAL-8	85	10522	T. MICROCARPA	27

No.	Name	Page	No.	Name	Page
10523	T. MAMMOSUM	28	10564	UF-672	97
10524	TSAN-792	91	10565	UF-676	97
10525	TSH-565	91	10566	UF-677	97
10526	TSH-565	91	10567	UF-700	103
10527	TSHA-644	91	10568	UF-700	103
10528	TSHN-812	117	10569	UF-701	103
10529	T. SIMIARUM	29	10570	UF-703	103
10500	T. SIMIARUM x T. MAM.	32	12875	UF-704	117
10530	T. SPECIOSUM	30	10571	UF-705	103
10531	T. SUBICANUM	31	10572	UF-706	103
10532	UF-4	91	10573	UF-707	103
10533	UF-10	91	10574	UF-708	103
10534	UF-11	91	10575	UF-709	103
10535	UF-12	97	10576	UF-710	103
10536	UF-20	97	10577	UF-711	103
10537	UF-29	97	10578	UF-712	103
10539	UF-36	117	10579	UF-713	103
10540	UF-36	97	10580	UF-714	117
10541	UF-93	97	10581	UF-715	103
10542	UF-122	97	10582	UF-716	117
10543	UF-168	97	10583	UF-717	103
10544	UF-210	97	10584	X-VERDE	103
10545	UF-221	97	10586	No. 1	103
10546	UF-242	97	10585	189	103
10547	UF-273	97	12871		117
10548	UF-296	97	12872		117
10549	UF-296	97	12873		117
10550	UF-601	97			
10551	UF-602	97			
10554	UF-613	97			
10556	UF-613	117			
10557	UF-650	97			
10558	UF-654	97			
10559	UF-666	97			
10560	UF-667	97			
10561	UF-667	117			
10562	UF-667	97			
19563	UF-668	97			

Illustrations:

Emilio Ortiz
Mauricio Argueta
Kees Reinink

Design and production:

Jaime Rojas H.

**A publication of CATIE
Training Unit
Run 500 copies
Printed in Litografía e Imprenta LIL, S.A.
San José, Costa Rica, February, 1982**