

Physical-chemical properties and sensory profile of *Coffea canephora* genotypes in high-altitudes

Carlos Alexandre Pinheiro, Lucas Louzada Pereira, Deusélio Bassini Fioresi, Daniela da Silva Oliveira, Vanessa Moreira Osório, Josimar Aleixo da Silva, Ulisses Alves Pereira, Maria Amélia Gava Ferrão, Elaine Manelli Riva-Souza, Aymbiré Francisco Almeida da Fonseca, Patrícia Fontes Pinheiro

Supplementary

Table S1. Agronomic characteristics of the clonal *conilon* coffee variety 'Vitoria - Incaper 8142'

Form of vegetative propagation	Asexual (clonal)
Number of clones	13 (thirteen): V1 to V13
Form of planting	In each field, one clone per row
Visual evaluation index	7.45 (Scale from 0 to 10)
Vegetative vigor	High
Average yield (not irrigated)	70.40 sacks of 60 kg of processed coffee/hectare
Cup diameter	2.79 m
Fruit ripening	Uniform on each clone
Maturation time	May to July (depending on clone)
Cherry coffee/processed ratio (mass)	3.92
Coconut/processed coffee ratio (mass)	1.80
Grain size	90.59% sieves 13 and larger
Mocha-type coffee beans	21.40%
Reaction to rust	Tolerant
Reaction to water deficit	Tolerant
Adaptation	Areas zoned for <i>conilon</i> in Espírito Santo, Brazil

Data available at: <https://biblioteca.incaper.es.gov.br/digital/bitstream/item/989/1/FOLDER-Conilon-Vitoria-2011-4-Ed.compressed.pdf>

Table S2. Agronomic characteristics of the clonal *conilon* coffee variety 'Robustão Capixaba Emcapa 8141'

Type of cultivar	Clonal
Number of clones	10 (ten): R1 to R10
Vegetative vigor	High
Maximum productivity achieved	112.5 sacks of 60 kg of coffee benefited / hectare
Average productivity in water stress	54.0 sacks of 60 kg of coffee benefited / hectare (average of 4 harvests: 24, 36, 48 and 60 months)
Plant Architecture	Low to medium
Fruit ripening	May/June
Reaction to water deficit	Drought Tolerant
Reaction to foliar diseases	Tolerant
Defoliation	Low

Data available at: <https://biblioteca.incaper.es.gov.br/digital/bitstream/item/1625/1/BRT-doc98-emcapa8141robustaacapixaba-Emcapa.pdf>

Table S3. Sensory attributes of the 21 samples of *C. canephora* cultivated at 720-m altitude obtained from Incaper clones: Vitória (V1 to V12) and Robustão Capixaba (R1-R3, R6-R10)

<i>C. canephora</i> (Clones)	F/A	UNI	ABS	SW	TS	ACI	BD	FIN	BAL	LT	TOTAL
V1	7.04 a	10.0 a	10.0 a	10.0 a	6.67 b	6.50a	6.96a	6.71 a	6.83 a	6.97 b	77.68 a
V2	7.04 a	10.0 a	10.0 a	9.50 a	7.08 a	6.63a	6.92a	6.83 a	6.71 a	7.23 a	77.93 a
V3	6.67 a	10.0 a	10.0 a	10.0 a	6.58 b	6.29a	6.92a	6.54 a	6.58 a	6.90 b	76.49 a
V4	7.04 a	10.0 a	10.0 a	10.0 a	6.79 b	6.58a	7.0 a	6.67 a	6.88 a	7.06 b	78.02 a
V5	7.17 a	10.0 a	10.0 a	10.0 a	7.04 a	6.63a	7.08 a	6.79 a	6.79 a	7.24 a	78.74 a
V6	7.54 a	10.0 a	10.0 a	9.5 a	7.38 a	7.04a	7.42 a	7.04 a	7.17 a	7.46 a	80.54 a
V7	6.71 a	10.0 a	10.0 a	10.0 a	6.54 b	6.25a	7.08 a	6.58 a	6.63 a	6.93 b	76.72 a
V8	6.96 a	10.0 a	10.0 a	10.0 a	6.58 b	6.29a	6.96 a	6.50 a	6.54 a	6.81 b	76.64 a
V9	6.96 a	10.0 a	10.0 a	10.0 a	6.75 b	6.42a	6.75 a	6.46 a	6.63 a	6.85 b	76.81 a
V10	7.21 a	10.0 a	10.0 a	10.0 a	6.75 b	6.46a	7.13 a	6.71 a	6.75 a	7.20 b	75.78 a
V11	6.96 a	10.0 a	10.0 a	10.0 a	6.96 b	6.58a	7.33 a	6.83 a	6.88 a	6.98 b	78.53 a
V12	6.75 a	10.0 a	10.0 a	10.0 a	6.54 b	6.21a	6.54 a	6.33 a	6.46 a	6.76 b	75.59 a
R1	6.79 a	10.0 a	10.0 a	10.0 a	6.46 b	6.33a	6.67 a	6.46 a	6.63 a	6.68 b	76.02 a
R2	6.96 a	10.0 a	10.0 a	10.0 a	7.08 a	6.58a	7.04 a	6.67 a	6.63 a	6.84 b	77.80 a
R3	7.33 a	10.0 a	10.0 a	10.0 a	7.13 a	6.63a	7.0 a	6.88 a	6.79 a	7.28 a	79.03 a
R6	6.96 a	10.0 a	10.0 a	10.0 a	6.79 b	6.58a	7.21 a	6.79 a	6.92 a	7.29 a	78.54 a
R7	7.00 a	10.0 a	10.0 a	10.0 a	6.88 b	6.42a	6.79 a	6.75 a	6.67 a	6.97 b	77.47 a
R8	6.88 a	10.0 a	10.0 a	10.0 a	6.46 b	6.17a	6.75 a	6.42 a	6.46 a	6.71 b	75.83 a
R9	6.88 a	9.67 a	10.0 a	10.0 a	7.38 a	6.88a	7.25 a	6.96 a	6.96 a	7.20 a	77.91 a
R10	6.71 a	9.67 a	10.0 a	10.0 a	6.67 b	6.42a	6.96 a	6.58 a	6.71 a	7.04 b	76.75 a
Average	6.98	9.97	10.00	9.95	6.83	6.49	6.99	6.68	6.73	7.02	77.44
CV(%)	6.66	2.56	0.00	3.85	7.18	8.88	6.79	7.72	7.62	5.82	3.77

Fragrance/aroma (F/A), uniformity (UN), absence of defects (ABS), sweetness (SW), taste (TS), acidity (ACI), body (BD), finalization (FIN), balance (BAL), last (LT). *Means followed by the same letter belong to the same group according to the *Scott-Knott* test ($P < 5\%$).