Supplementary Table S1. Seasonal and Phenological Variations in Fruit and Bunch Composition Parameters of Three OxG Cultivars

DRY SEASON							
Cultivar	**PS**	**MF %**	**FS %**	**FSnf %**	**FSpf %**	**FBnf %**	**FBpf %**
B×DJ	**709**	64.9±5.1	68.1±20.5	20.0±8.6	48.1±11.9	27.1±8.4	26.6±5.6
	800	67.7±7.0	67.7±19.0	21.0±12.0	46.7±20.0	26.0±13.2	25.5±11.4
	803	74.4±6.7	65.6±21.4	28.6±14.7	37.0±18.7	34.4±13.8	19.8±10.4
	805	76.2±7.1	63.4±19.3	31.6±12.2	31.8±13.2	39.2±10.8	17.0±9.1
	806	77.4±7.2	70.1±22.4	35.8±15.2	34.3±18.1	41.8±12.8	17.5±11.7
	807	76.1±7.0	74.2±22.0	33.1±15.0	41.1±19.0	39.5±14.3	19.7±10.2
	809	81.9±6.1	80.4±24.9	38.3±18.8	42.1±20.0	39.7±12.6	21.4±11.9
C×LM	**709**	57.3±6.3	84.7±35.7	20.6±10.3	64.1±25.4	27.3±10.4	25.7±10.3
	800	58.5±9.1	76.2±45.0	27.2±16.0	49.0±29.0	33.1±13.0	18.8±11.5
	803	61.0±8.2	79.6±39.4	30.6±16.0	49.0±23.4	36.5±10.4	17.0±9.3
	805	66.7±11.5	85.2±36.0	25.4±13.6	59.8±22.4	35.0±12.2	24.3±12.3
	806	67.1±9.9	84.4±30.0	27.0±12.0	57.4±18.0	35.5±10.6	22.2±11.1
	807	68.7±5.2	89.5±28.6	28.5±12.7	61.0±15.9	38.8±11.9	23.9±10.5
	809	68.4±7.5	92.4±33.6	25.0±12.4	67.4±11.2	34.3±11.5	28.3±10.1
M×C	**709**	59.7±12.3	69.1±27.0	15.8±12.2	53.3±14.8	21.2±13.1	34.7±13.0
	800	56.7±12.3	72.0±29.4	23.3±13.0	48.7±16.4	28.4±12.7	28.3±11.8
	803	67.1±8.1	65.0±25.0	25.8±12.2	39.2±12.8	32.4±13.4	22.5±9.8
	805	71.3±7.9	70.4±29.7	24.9±13.5	45.5±16.2	33.0±15.2	24.5±10.9
	806	69.9±7.7	72.0±29.0	27.2±14.2	44.8±14.8	34.2±14.5	25.6±11.8
	807	72.7±8.9	72.8±28.0	26.5±12.2	46.3±15.8	37.0±14.3	27.9±12.6
	809	75.1±8.7	74.4±26.0	25.1±12.8	49.3±13.2	32.7±14.6	26.2±12.1
RAINY SEASON							
Cultivar	**PS**	**MF %**	**FS %**	**FSnf %**	**FSpf %**	**FBnf %**	**FBpf %**
B×DJ	**709**	64.1±5.1	64.1±5.1	21.7±5.8	76.3±9.6	32.2±7.1	28.8±7.7
	800	67.4±6.3	67.4±6.3	22.0±12.2	75.5±12.9	28.9±12.0	33.1±12.0
	803	74.6±7.3	74.6±7.3	22.4±14.1	74.2±14.5	29.5±15.4	33.0±10.7
	805	75.5±6.9	75.5±6.9	24.3±21.7	71.1±22.1	27.6±17.8	35.6±16.5
	806	77.7±7.0	77.8±7.0	19.1±12.6	78.3±14.4	26.8±10.7	32.6±8.8
	807	77.2±7.5	77.2±7.5	26.6±14.1	71.4±14.2	33.5±13.5	28.1±10.5
	809	83.2±5.7	83.2±5.7	25.9±9.5	73.9±9.6	35.5±11.0	27.5±6.5
C×LM	**709**	58.0±7.5	58.0±7.5	26.1±21.7	48.5±21.1	31.0±21.0	25.3±13.3
	800	60.7±9.0	60.7±9.0	23.1±13.6	51.2±13.7	31.0±16.0	26.7±10.8
	803	64.2±8.8	64.2±8.8	20.3±13.3	51.6±12.6	27.4±15.4	29.6±11.4
	805	72.3±7.9	72.3±7.9	24.1±13.9	48.4±13.9	30.8±13.7	25.8±11.0
	806	65.2±6.4	65.2±6.4	26.1±16.1	44.9±16.8	32.1±14.6	25.5±13.1

	807	67.8±5.4	67.8±5.4	20.5±14.8	51.5±14.7	27.8±16.6	29.2±14.5
	809	66.0±8.7	66.1±8.7	31.1±17.6	40.3±17.3	35.5±15.1	19.5±11.5
M×C	**709**	59.6±13.8	59.6±13.8	21.4±15.5	35.7±15.1	28.6±16.0	22.8±14.6
	800	58.4±9.7	58.4±9.7	23.2±11.4	34.2±11.2	32.8±12.6	19.6±10.0
	803	67.9±7.8	67.9±7.8	17.9±12.5	38.1±12.2	26.3±17.1	24.4±12.2
	805	72.7±7.6	72.7±7.6	19.7±11.7	36.3±13.7	28.0±14.2	21.6±9.9
	806	68.5±8.0	68.5±8.0	22.3±12.1	36.3±13.4	30.6±14.2	22.4±11.9
	807	68.5±9.4	68.5±9.4	17.2±11.7	41.7±12.6	24.5±13.5	25.2±11.4
	809	71.9±9.7	71.9±9.7	20.0±11.2	38.8±10.6	29.4±13.5	23.7±9.3
Source of Variation							
Season (S)		ns	**	ns	**	ns	ns
Cultivar (C)		**	**	*	**	ns	**
PS		**	**	ns	ns	ns	ns
S × C		**	**	ns	ns	ns	ns
S × PS		**	**	ns	ns	ns	ns
C × PS		ns	ns	ns	ns	ns	ns
S × C × PS		**	**	ns	ns	ns	ns

Values correspond to mesocarp-to-fruit ratio (MF), fruit set (FS), normal fruit set (FSnf), parthenocarpic fruit set (FSpf), normal fruit-to-bunch ratio (FBnf), and parthenocarpic fruit-to-bunch ratio (FBpf) in B×DJ (Brazil × Djongo), C×LM (Coari × La Mé), and M×C (Manaos × Compacta) cultivars. Values represent mean ± SD (n = 29 for PS 706 and PS 809; n = 44 for all other PS). Statistical significance: ns = not significant; ** = highly significant ($p \leq 0.05$)