



## Supplementary Materials

1

2

3 4 **Table S1.** Days to germination and flowering expressed as means  $\pm$  standard deviations of the replicates (n=3) for each genotype. For the days to first flower, "#" means that at least one of the replicates did not flower and "-" means none of the replicates reach flowering.

Sambey21         4.33 ± 0.82         58.33 ± 1.53         54.33 ± 0.58           C11         4.33 ± 0.82         60.50 ± 6.36         #           C15         6.33 ± 1.03         59.00 ± 3.46         #           C18         5.00 ± 0.00         60.67 ± 1.15         58.00 ± 3.61           C19         4.83 ± 0.41         60.00 ± 3.00         55.00 ± 1.73           C20         5.33 ± 0.82         56.67 ± 1.15         56.67 ± 3.51           C21         5.83 ± 1.33         56.67 ± 1.15         58.00 ± 4.00           C22         4.67 ± 0.82         58.00 ± 1.00         58.67 ± 0.58           C23         4.67 ± 0.82         55.33 ± 2.31         58.00 ± 5.29           C24         5.17 ± 0.41         56.67 ± 1.15         55.67 ± 4.04           C29         4.67 ± 0.52         56.67 ± 0.58         55.33 ± 2.08           C3         4.17 ± 0.98         60.67 ± 0.58         55.33 ± 2.08           C3         4.17 ± 0.98         60.67 ± 0.58         59.33 ± 1.53           C31         4.67 ± 0.52         53.00 ± 1.00         51.67 ± 2.31           C39         5.00 ± 1.41         50.00 ± 1.00         51.67 ± 2.31           C39         5.00 ± 1.41         59.33 ± 2.31         55.33 ± 0.58		Description of the state of the	Days to first flower		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Genotype	Days to germination —	Control	Stress	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Bambey21	$4.33 \pm 0.82$	58.33 ± 1.53	$54.33 \pm 0.58$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C11	$4.33 \pm 0.82$	$60.50 \pm 6.36$	#	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C15	$6.33 \pm 1.03$	$59.00 \pm 3.46$	#	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C18	$5.00 \pm 0.00$	$60.67 \pm 1.15$	$58.00 \pm 3.61$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C19	$4.83 \pm 0.41$	$60.00 \pm 3.00$	$55.00 \pm 1.73$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C20	$5.33 \pm 0.82$	$56.67 \pm 1.15$	$56.67 \pm 3.51$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C21	$5.83 \pm 1.33$	$56.67 \pm 1.15$	$58.00 \pm 4.00$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C22	$4.67 \pm 0.82$	$58.00 \pm 1.00$	$58.67 \pm 0.58$	
C29 $4.67 \pm 0.52$ $56.67 \pm 0.58$ $55.33 \pm 2.08$ C3 $4.17 \pm 0.98$ $60.67 \pm 0.58$ $59.33 \pm 1.53$ C31 $4.67 \pm 0.52$ $53.00 \pm 1.00$ $51.67 \pm 2.31$ C39 $5.00 \pm 1.41$ $55.00 \pm 1.00$ $58.33 \pm 2.08$ C41 $4.83 \pm 0.41$ #       #         C43 $4.67 \pm 1.03$ $59.33 \pm 2.31$ $55.33 \pm 0.58$ C45 $6.00 \pm 1.55$ $56.00 \pm 0.00$ $56.67 \pm 1.15$ C47 $5.00 \pm 0.00$ $63.00 \pm 1.73$ $61.00 \pm 3.00$ C49 $4.83 \pm 0.41$ $58.67 \pm 3.06$ $60.67 \pm 4.16$ C5 $3.33 \pm 1.03$ $61.33 \pm 1.15$ $61.00 \pm 1.73$ C51 $5.00 \pm 0.00$ $53.33 \pm 0.58$ $53.00 \pm 0.00$ C52 $5.50 \pm 0.84$ $62.67 \pm 4.97$ #         C53 $4.67 \pm 0.82$ $60.00 \pm 4.00$ $63.67 \pm 1.15$ C56 $4.00 \pm 1.10$ $55.67 \pm 3.79$ $58.00 \pm 4.36$ C57 $4.83 \pm 0.98$ $59.00 \pm 4.36$ $60.33 \pm 3.51$ C58 $4.67 \pm 1.86$ $55.67 \pm 4.93$ $54.67 \pm 2.89$ C8 $4.50$	C23	$4.67 \pm 0.82$	$55.33 \pm 2.31$	$58.00 \pm 5.29$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C24	$5.17 \pm 0.41$	$56.67 \pm 1.15$	$55.67 \pm 4.04$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C29	$4.67 \pm 0.52$	$56.67 \pm 0.58$	$55.33 \pm 2.08$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C3	$4.17 \pm 0.98$	$60.67 \pm 0.58$	$59.33 \pm 1.53$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C31	$4.67 \pm 0.52$	$53.00 \pm 1.00$	$51.67 \pm 2.31$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C39	$5.00 \pm 1.41$	$55.00 \pm 1.00$	$58.33 \pm 2.08$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C41	$4.83 \pm 0.41$	#	#	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C43	$4.67 \pm 1.03$	$59.33 \pm 2.31$	$55.33 \pm 0.58$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C45	$6.00 \pm 1.55$	$56.00 \pm 0.00$	$56.67 \pm 1.15$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C47	$5.00 \pm 0.00$	$63.00 \pm 1.73$	$61.00 \pm 3.00$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C49	$4.83 \pm 0.41$	$58.67 \pm 3.06$	$60.67 \pm 4.16$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C5	$3.33 \pm 1.03$	$61.33 \pm 1.15$	$61.00 \pm 1.73$	
C53 $4.67 \pm 0.82$ $60.00 \pm 4.00$ $63.67 \pm 1.15$ C56 $4.00 \pm 1.10$ $55.67 \pm 3.79$ $58.00 \pm 4.36$ C57 $4.83 \pm 0.98$ $59.00 \pm 4.36$ $60.33 \pm 3.51$ C58 $4.67 \pm 1.86$ $55.67 \pm 4.93$ $54.67 \pm 2.89$ C59 $5.33 \pm 0.52$ #       -         C8 $4.50 \pm 0.84$ $56.67 \pm 5.77$ $59.67 \pm 1.53$	C51	$5.00 \pm 0.00$	$53.33 \pm 0.58$	$53.00 \pm 0.00$	
C56 $4.00 \pm 1.10$ $55.67 \pm 3.79$ $58.00 \pm 4.36$ C57 $4.83 \pm 0.98$ $59.00 \pm 4.36$ $60.33 \pm 3.51$ C58 $4.67 \pm 1.86$ $55.67 \pm 4.93$ $54.67 \pm 2.89$ C59 $5.33 \pm 0.52$ #       -         C8 $4.50 \pm 0.84$ $56.67 \pm 5.77$ $59.67 \pm 1.53$	C52	$5.50 \pm 0.84$	$62.67 \pm 4.97$	#	
C57 $4.83 \pm 0.98$ $59.00 \pm 4.36$ $60.33 \pm 3.51$ C58 $4.67 \pm 1.86$ $55.67 \pm 4.93$ $54.67 \pm 2.89$ C59 $5.33 \pm 0.52$ #       -         C8 $4.50 \pm 0.84$ $56.67 \pm 5.77$ $59.67 \pm 1.53$	C53	$4.67 \pm 0.82$	$60.00 \pm 4.00$	$63.67 \pm 1.15$	
C58 $4.67 \pm 1.86$ $55.67 \pm 4.93$ $54.67 \pm 2.89$ C59 $5.33 \pm 0.52$ # -         C8 $4.50 \pm 0.84$ $56.67 \pm 5.77$ $59.67 \pm 1.53$	C56	$4.00 \pm 1.10$	$55.67 \pm 3.79$	$58.00 \pm 4.36$	
$5.33 \pm 0.52$ # - $5.67 \pm 1.53$	C57	$4.83 \pm 0.98$	$59.00 \pm 4.36$	$60.33 \pm 3.51$	
68 4.50 ± 0.84 56.67 ± 5.77 59.67 ± 1.53	C58	$4.67 \pm 1.86$	$55.67 \pm 4.93$	$54.67 \pm 2.89$	
	C59	$5.33 \pm 0.52$	#	-	
T93K-503-1 $6.83 \pm 0.75$	C8	$4.50 \pm 0.84$	$56.67 \pm 5.77$	$59.67 \pm 1.53$	
	IT93K-503-1	$6.83 \pm 0.75$	-	-	

7

8

**Table S2**. Percentage of immature (I), mature (M) and no grain (N) pods for each genotype under control and drought conditions.

Genotype —		30 cm pipes			90 cm pipes	
	I	M	N	I	M	N
Bambey21	18%	41%	41%	64%	9%	27%
C11	41%	32%	27%	27%	27%	45%
C15	87%	0%	13%	0%	0%	100%
C18	38%	41%	21%	40%	20%	40%
C19	45%	5%	50%	47%	29%	24%
C20	50%	31%	19%	58%	17%	25%
C21	45%	40%	15%	50%	14%	36%
C22	41%	30%	30%	53%	0%	47%
C23	20%	70%	10%	50%	0%	50%
C24	43%	22%	35%	35%	0%	65%
C29	72%	11%	17%	47%	12%	41%
C3	58%	0%	42%	100%	0%	0%
C31	45%	40%	15%	38%	62%	0%
C39	12%	65%	24%	45%	18%	36%
C41	35%	6%	59%	-	-	-
C43	75%	8%	17%	80%	0%	20%
C45	36%	57%	7%	70%	20%	10%
C47	60%	0%	40%	57%	0%	43%
C49	57%	10%	33%	56%	0%	44%
C5	52%	16%	32%	26%	0%	74%
C51	58%	40%	3%	17%	39%	43%
C52	47%	13%	40%	33%	0%	67%
C53	44%	19%	38%	0%	0%	100%
C56	19%	58%	23%	44%	25%	31%
C57	21%	38%	41%	47%	6%	47%
C58	31%	69%	0%	53%	24%	24%
C59	8%	0%	92%	-	-	-
C8	27%	12%	62%	57%	29%	14%
IT93K-503-1	-	-	-	-	-	-





© 2020 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (http://creativecommons.org/licenses/by/4.0/).

9