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1449

1951

No. 31

ARCHIVES  
OF THE INDOCHINESE RICE OFFICE

*C. T. T.*  
RICE SEEDS

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1. Study on germinative power.

Influence of harvest conditions, of drying  
and of conservation.

Action of the mode of soaking.

by Yves COYAUD

(after the works and reports of  
A. ANGLADETTE, VO DUC HIEN, G. HUET,  
R. BILLETTE, L. ROGER and DQAN KHAC VUONG)

11. Controls of seed qualities

after A. ANGLADETTE and L. ROGER

# TEXT NOT REPRODUCIBLE

## COLORATION AT MATURATION OF THE GRAIN

### EXPERIMENT I -- CAHUNG TRANG VARIETY

No. of lot	Kernel state	Vegetative org.	Rachis	Husks and Glumellas
Lot 1 20 days after flowering	Pasty state for the majority.	Extreme dryness of base of panicle.	Yellowing to about 2cm. tip.	$\frac{1}{2}$ superior beginning to yellow, the rest green.
Lot 2 25 days after flowering	Wheat state generally.	$\frac{1}{2}$ superior panicle yellowed, base --- (?) from milky state to pasty state.	Rest beginning to yellow.	Yellow in places where the rachis are.
Lot 3 30 days after flowering	Wheat state at top of panicle.	Beginning of wheat state at panicular base.	$\frac{3}{4}$ superior of the yellowed panicle, entirely, primary rachis yellow after secondary ramif.	Yellowed in the $\frac{3}{4}$ sup. of panicles. Rest beginning to yellow.
Lot 4 35 days after flowering	Glassy state.	(cut off) (rest of description cut off)	Complete yellowing except at base of stem.	Entirely yellowed except some grains at the base.
Lot 5 40 days after flowering	Glassy state for --- the grains.	--- of leaves and stems. Grains breaking under teeth.	Almost complete yellowing, light green touches at base of panicles.	Complete yellowing.
Lot 6 50 days after flowering	Grains cracking under the tooth.	dried out ---, yellowed.	Complete yellowing.	Complete yellowing.
Lot 7 60 days after flowering	Very hard grains cracking under the tooth.	--- dried out, yellowed.	Complete yellowing.	Dull yellow grains like those of dry grains.



(Experiment III, cont'd)

CADUNG TRANG VARIETY

No. of the Lot	State of kernel	Coloration		
		Crg. vegetative	Rachis	Husks and glumellas
Lot 1 days after flowering	$\frac{1}{2}$ superior mealy panicle. Fasty middle panicle $\frac{1}{2}$ inferior milky	Drying of extrem- ity of panicular to about leaf.	Yellowing $\frac{1}{2}$ superior begin. to yellow, the 2cm. from top rest green.	
Lot 2 days after flowering	$\frac{1}{2}$ sup. panicle transparent case. $\frac{1}{2}$ inf. majority case trans. stays mealy	Drying of the (cut- off) $\frac{1}{2}$ sup. of the panicular limb.	$\frac{1}{2}$ yellowed sup. panicle Rest begin. to yellow.	Yellowed where the rachis are.
Lot 3 days after flowering	Totality of kernel cases trans. but crush easily under the tooth.	Drying of the limb and of the $\frac{1}{2}$ sup. of the panicular case.	$\frac{3}{4}$ sup. to the yellowed panicle entirely, primary panicles. rachis yellow after secondary ramif.	Yellowed in $\frac{3}{4}$ sup. Rest begin to yellow.
Lot 4 days after flowering	firm kernel crushing with dull noise. Cracks under tooth top panicle	Complete drying of the leaves. Begin. of yellowing of stem.	Complete yellow except at pan. base beginning some base of yellowing	Entirely yel- low except base grains.
Lot 5 days after flowering	Grains breaking under tooth with dry noise	Yellowing of leaves and stems.	Nearly complete yellowing, light green reflects at panicle base.	Complete yellowing.
Lot 6 days after flowering	Grains cracking under the tooth	Dried leaves Yellowed stem	Complete yellowing.	Complete yellowing.
Lot 7 days after flowering	Grains ceding with difficulty in cracking under the tooth.	Dried leaves Yellowed stems	Complete yellowing.	Grains of a faded yellow like that of dry grains.

# GRAPHIC NOT REPRODUCIBLE

TABLE III

INFLUENCE OF HARVEST TIME  
ON THE GERMINATIVE FACULTY OF THE SEEDS

(Battambang Station)

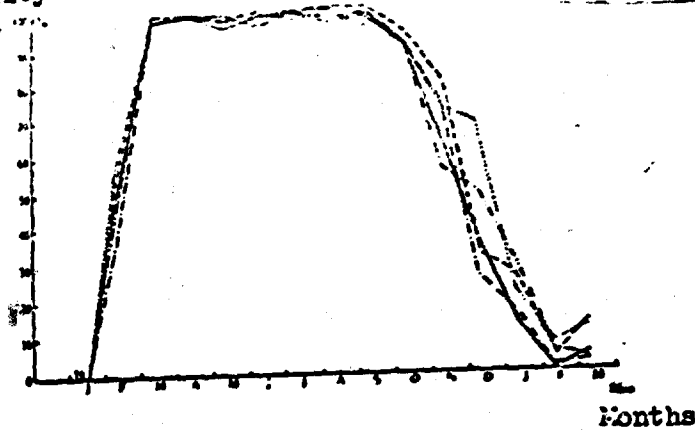
Nos.	NAMES OF VARIETIES	Date of trials Date of Harvest	Date des essais												
			Date de récolte												
			24-12-34	8-1-35	11-2-35	17-2-35	5-3-35	12-3-35	13-3-35	18-10-35	4-11-35	16-12-35	12-1-36	12-2-36	18-3-36
77	Niang song (1 <sup>er</sup> lot)	3-12-34	8	8			98	77	70	55	55	25	10		0
78	Niang song (2 <sup>nd</sup> lot)	2-1-35		91			100	78	72	55	52	37	4		0
79	Niang saat (1)	20-11-34		91			95	91	74	59	42	27	4		0
80	Niang saat (2)	30-12-34		88			95	95	71	61	45	24	4		0
89	Angkor cham (1)	20-11-34		88			99	95	77	31	19	15	7	1	
90	Angkor cham (2)	20-12-34		94			95	83	57	28	24	14	10		0
111	Kantou chichak (1)	10-12-34	15	66			98	84	43	30	25	10	2		0
111	Kantou chichak (2)	10-1-35		91			95	88	49	32	29	12	5		0
65	Krachak chrouk (1)	26-12-34	7	35			97	93	86	62	28	5	2		2
65	Krachak chrouk (2)	25-1-35		43			95	84	70	55	30	8	1		0
24	Pou koo (1)	27-12-34	2	49			95	99	83	73	52	18	22		0
24	Pou koo (2)	28-1-35		74			96	99	89	75	54	42	26		7
57	Niang leung (1)	5-1-35	0		60		100	89	86	52	36	24	17		7
57	Niang leung (2)	5-2-35			87		100	95	81	55	37	20	8		3
59	Salet (1)	5-1-35	0		72		92	94	94	93	82	72	46		23
59	Salet (2)	5-2-35			94		95	68	93	93	83	68	24		17
67	Kong thom (1)	5-1-35	0		71		99	95	91	74	35	30	28		3
67	Kong thom (2)	5-2-35			91		100	96	94	77	37	24	21		4
69	Phear daung (1)	5-1-35	0		81		99	88	84	67	51	27	7		2
69	Phear daung (2)	5-2-35			96		97	82	83	69	49	21	2		0

GRAPHIC NOT REPRODUCIBLE

Graph 7

VARIATION OF THE GERMINATIVE FACULTY  
AFTER LYING IN THE SHADE

Germinative  
Faculty



VARIATION OF THE RATE OF HUMIDITY  
after drying in the shade

VARIATION DU TAUX D'HUMIDITE

Graph 8

Graph 8

Humidity

% Humidity

