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Rice Update
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For past week, it has just been plain wet. Rainfall today alone has been quiet excessive. The only field work that occurred this week was mainly south of Shaw on Monday. Just looking at the current situation, Wednesday or Thursday of next week will be the earliest that any type of field work will begin.

With a limited amount of soybean seed available and a steady increase in rice prices (~\$8/bu), some producers have recently been interested in growing rice behind wheat if irrigation is available. Most of the questions surrounding this topic has been varieties, expected yield, pest, and harvest dates.

When planting late I would still consider planting our normal varieties such as Cocodrie, CL 161, or CL 171-AR. Typically, varieties that perform good early, perform good planted late.

Yields for rice that are planted around the first week of June are approximately 80% of yields when planted at an optimum time of April 15. For example, if your average rice yield is 150 bu/A for April planted rice, an approximate yield expectation for June 5 planted rice would be 120 bu/A. As your emergence date gets later, yields can be reduced by 1% per day. Therefore, it is important to get the rice planted and emerged as soon as possible following wheat harvest. When planting late, I would flush soon after planting to get the crop started. Waiting for a possible rain could significantly delay your crop even more, which would result in even lower yields. Also, when planting during these warm summer time conditions, it does not take long for the crop to emerge and get it to flood.

The two main pest issues for late planted rice would be rice water weevils and rice stinkbugs. I would certainly make plans to make at least one application of pyrethroid for rice water weevils at flooding and one application at heading for rice stinkbugs. More applications maybe necessary as pest populations build throughout the growing season and the later planted crops take the brunt of it.

Rice planted at the first of June will normally be ready to harvest around October 10. Getting the crop started as soon as possible will get you to harvest quicker. Do not hesitate in using water as a management tool.

To give you a better idea on the economics of growing rice behind wheat, I asked Dr. Steve Martin to put together a budget. This budget considered high input cost, a currently low rice price (\$6/bu), and an approximate yield of 120 bu/A. I would consider this budget to be a worse case scenario. The total specified input cost would be \$632/A. The total gross income would be \$720/A and the total net income would be \$88/A.

I have included the budget sheets on the following pages for your information. The first two sheets gives you detailed information on projected input cost. The last page gives you estimated returns on various yield and pricing combinations.

If you want to be added to my direct emailing list, email me at nathanb@ext.msstate.edu. Also, feel free to contact me at 662-822-7359.

Table 24.C Estimated costs for field operations, per acre
 Rice behind Wheat
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

OPERATION/ OPERATING INPUT	SIZE/ UNIT	-----DIRECT COST-----							FIXED COST	TOTAL COST	
		OP INPUT	FUEL	R&M	LABOR	LEASE	INTER	TOTAL			
-----dollars-----											
Field Cultivate Fld	32'		1.51	0.50	0.91			0.15	3.07	3.09	6.16
Grain Drill	24'		2.54	1.38	2.09			0.26	6.27	4.91	11.18
Rice Seed Conv.	lb	23.40						1.02	24.42		24.42
Roller	32'-12R30		1.51	0.29	0.91			0.12	2.83	2.21	5.04
Spray (Broadcast)	60'		0.91	0.21	0.65			0.08	1.85	0.96	2.81
Command 3ME	pt	16.96						0.74	17.70		17.70
Flush	acre	8.75						0.38	9.13		9.13
Seed Levees											
Rice Seed (Levees)	lb	3.90						0.17	4.07		4.07
App by Air (5 gal)	appl	4.50						0.16	4.66		4.66
Facet 75DF	lb	20.30						0.74	21.04		21.04
Stam M4	qt	23.92						0.87	24.79		24.79
App Fert by Air	cwt	5.00						0.18	5.18		5.18
Amm Sulfate (21% N)	cwt	12.00						0.44	12.44		12.44
Urea, Solid (46% N)	cwt	60.63						2.21	62.84		62.84
App Fert by Air	cwt	12.50						0.46	12.96		12.96
Flush	acre	8.75						0.32	9.07		9.07
App by Air (3 gal)	appl	4.50						0.16	4.66		4.66
Karate Z	oz	6.20						0.23	6.43		6.43
Rice Management											
RICE MGT. LABOR	hour				0.73			0.03	0.76		0.76
Rice Management											
RICE MGT. LABOR	hour				1.46			0.04	1.50		1.50
App Fert by Air	cwt	7.50						0.22	7.72		7.72
Urea, Solid (46% N)	cwt	36.38						1.06	37.44		37.44
Rice Management											
RICE MGT. LABOR	hour				1.46			0.03	1.49		1.49
App by Air (5 gal)	appl	4.50						0.10	4.60		4.60
Stratego	pt	18.52						0.41	18.93		18.93
App by Air (3 gal)	appl	4.50						0.10	4.60		4.60
Karate Z	oz	6.20						0.14	6.34		6.34
Rice Management											
RICE MGT. LABOR	hour				1.46			0.02	1.48		1.48
Header - Rice (SL)	25' Rigid		10.27	5.76	4.27			0.30	20.60	23.50	44.10
Rice Grain Cart	700 Bu		0.41	0.12	0.25			0.01	0.79	0.54	1.33
Handling & Storage											
HAND LABOR	hour				1.83			0.03	1.86		1.86
Haul Rice	bu	26.40						0.39	26.79		26.79
Dry Rice	bu	48.00						0.70	48.70		48.70
Heavy Disk	21'		3.14	1.04	1.88			0.04	6.10	4.61	10.71
Flood Irr.	acre	2.00	74.60	9.06	18.18			3.42	107.26	61.68	168.94
TOTALS		365.31	94.89	18.36	36.08	0.00	15.73	530.37	101.50	631.87	

Note: Cost of production estimates are based on 2007 input prices.

Table 24.E Summary of estimated costs and returns per acre
 Rice behind Wheat
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

ITEM	UNIT	PRICE	QUANTITY	AMOUNT	YOUR FARM
		dollars		dollars	
INCOME					
Rice	bu	6.00	120.0000	720.00	_____

TOTAL INCOME				720.00	_____
DIRECT EXPENSES					
CUSTOM SPRAY	acre	18.00	1.0000	18.00	_____
FERTILIZERS	acre	109.01	1.0000	109.01	_____
FUNGICIDES	acre	18.52	1.0000	18.52	_____
HERBICIDES	acre	61.18	1.0000	61.18	_____
INSECTICIDES	acre	12.40	1.0000	12.40	_____
SEED/PLANTS	acre	27.30	1.0000	27.30	_____
ADJUVANTS	acre	17.50	1.0000	17.50	_____
CUSTOM FERTILIZE	acre	25.00	1.0000	25.00	_____
HAULING	acre	26.40	1.0000	26.40	_____
DRYING	acre	48.00	1.0000	48.00	_____
SURVEY & MARK LEVEES	acre	2.00	1.0000	2.00	_____
HAND LABOR	hour	7.31	0.3426	2.50	_____
IRRIGATE LABOR	hour	7.31	2.3750	17.39	_____
OPERATOR LABOR	hour	10.21	0.6072	6.21	_____
RICE MGT. LABOR	hour	7.31	0.7000	5.11	_____
UNALLOCATED LABOR	hour	10.20	0.4770	4.87	_____
DIESEL FUEL	gal	3.30	28.7487	94.89	_____
REPAIR & MAINTENANCE	acre	18.36	1.0000	18.36	_____
INTEREST ON OP. CAP.	acre	15.73	1.0000	15.73	_____

TOTAL DIRECT EXPENSES				530.37	_____
RETURNS ABOVE DIRECT EXPENSES				189.63	_____
TOTAL FIXED EXPENSES				101.50	_____

TOTAL SPECIFIED EXPENSES				631.87	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES				88.13	_____

Note: Cost of production estimates are based on 2007 input prices.

Table 24.J Estimated returns for various price/yield combinations, per acre
 Rice behind Wheat
 Flood irrigated, 27 ac-in., Delta Area, Mississippi, 2008

			PERCENT										
PRODUCT			75	80	85	90	95	100	105	110	115	120	125
			PRODUCT PRICE										
Rice			4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50
PERCENT	YIELD	UNIT	dollars										
50	60.00	bu	-222	-204	-186	-168	-150	-132	-114	-96	-78	-60	-42
			-324	-306	-288	-270	-252	-234	-216	-198	-180	-162	-144
60	72.00	bu	-176	-154	-132	-111	-89	-68	-46	-24	-3	18	39
			-277	-256	-234	-212	-191	-169	-148	-126	-104	-83	-61
70	84.00	bu	-129	-104	-79	-54	-28	-3	21	46	71	97	122
			-231	-206	-180	-155	-130	-105	-80	-54	-29	-4	20
80	96.00	bu	-83	-54	-25	3	31	60	89	118	147	175	204
			-184	-155	-127	-98	-69	-40	-11	16	45	74	103
90	108.00	bu	-36	-4	27	60	92	125	157	189	222	254	287
			-138	-105	-73	-41	-8	23	56	88	120	153	185
100	120.00	bu	9	45	81	117	153	189	225	261	297	333	369
			-91	-55	-19	16	52	88	124	160	196	232	268
110	132.00	bu	56	95	135	174	214	254	293	333	372	412	452
			-45	-5	33	73	112	152	192	231	271	310	350
120	144.00	bu	102	145	188	232	275	318	361	404	448	491	534
			1	44	87	130	173	217	260	303	346	389	433
130	156.00	bu	148	195	242	289	336	382	429	476	523	570	616
			47	94	141	187	234	281	328	375	421	468	515
140	168.00	bu	195	245	296	346	397	447	497	548	598	649	699
			93	144	194	245	295	345	396	446	497	547	597
150	180.00	bu	241	295	349	403	457	511	565	619	673	727	781
			140	194	248	302	356	410	464	518	572	626	680

The top number in each cell is Returns Above Direct Expenses.
 The bottom number in each cell is Returns Above Total Specified Expenses.
 Only the product listed has been varied to calculate net returns.
 Note: Cost of production estimates are based on 2007 input prices.