



APPENDICES

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่

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APPENDIX A

Gross margin of yala season paddy production in two AgS divisions

Budget item (Rupees/Acre)	Ambalantota	Lunama	Average
Seed paddy	2,768	2,932	2,851
Chemical fertilizers	1,435	1,435	1,435
Organic fertilizers	300	2,238	1,592
Insecticides	1,725	1,990	1,826
Fungicides	619	783	688
Weedicides	1,900	2,047	1,976
Fuel	1,260	3,176	1,865
Total input cost (Rupees/Acre)	10,007	14,601	12,233
Labor and machinery cost	17,604	19,302	18,462
Operating cost - owners	27,611	33,903	30,695
Interest for working capital	506	622	563
Total variable cost- owners	28,117	34,525	31,258
Price (Rupees/Kg)	30.32	28.64	29.48
Average yield (Kg/Acre)	2,414	2,170	2,301
Total Revenue (Rupees/Acre)	73,192	62,149	67,833
Gross margin – owners ExFL	45,075	27,624	36,575
Opportunity cost of family labor	2,417	2,386	2,400
Gross margin – owners InFL	42,658	25,238	34,175
Rental	15,263	15,391	15,319
Operating cost–tenants/leased	42,874	49,294	46,014
Interest for working capital	786	904	844
Total variable cost - tenants/leased	43,660	50,198	46,858
Gross margin–tenants/leased ExFL	29,532	11,951	20,975
Opportunity cost of family labor	1,561	2,075	1,810
Gross margin–tenants/leased InFL	27,223	8,545	18,185

Note: ExFL, InFL – excluding and including the cost of family labor respectively,

Interest rate - 5.5% annually

APPENDIX B

Gross margin of maha season paddy production in two AgS divisions

Budget item (Rupees/Acre)	Ambalantota	Lunama	Average
Seed paddy	2,783	2,831	2,807
Chemical fertilizers	1,435	1,435	1,435
Organic fertilizers	500	2,238	1,890
Insecticides	1,925	2,032	1,962
Fungicides	605	783	673
Weedicides	1,929	2,010	1,971
Fuel	1,248	3,176	1,827
Total input cost (Rupees/Acre)	10,425	14,505	12,565
Labor and machinery cost	16,954	19,294	18,101
Operating cost - owners	27,379	33,799	30,666
Interest for working capital	502	620	562
Total variable cost - owners	27,881	34,419	31,228
Price (Rupees/Kg)	29.98	26.03	28.13
Average yield (Kg/Acre)	2,387	2,178	2,295
Total Revenue (Rupees/Acre)	71,562	56,693	64,558
Gross margin –owners ExFL	43,681	22,274	33,330
Opportunity cost of family labor	2,248	2,386	2,321
GM–Owners InFL	41,433	19,888	31,009
Rental	15,676	13,385	14,670
Operating cost– tenants/leased	43,055	47,184	45,336
Interest for working capital	789	865	831
Total variable cost - tenants/leased	43,844	48,049	46,176
Gross margin–tenants/leased ExFL	27,718	8,644	18,382
Opportunity cost of family labor	1,717	2,073	1,845
Gross margin– tenants/leased InFL	26,001	6,571	16,537

Note: ExFL, InFL – excluding and including the cost of family labor respectively,

Interest rate - 5.5% annually

APPENDIX C

Gross margin between INM adopters and non adopters in Ambalantota AgS division

Budget item (Rupees/Acre)	Adopters	Non Adopters
Seed paddy	2,811	2,458
Chemical fertilizers	1,435	1,435
Organic fertilizers	500	0
Insecticides	1,921	1,967
Fungicides	611	570
Weedicides	1,946	1,200
Fuel	1,272	933
Total input cost (Rupees/Acre)	10,496	8,563
Labor and machinery cost	17,104	15,197
Operating cost - owners	27,600	23,760
Interest for working capital	506	436
Total variable cost - owners	28,106	24,196
Price (Rupees/Kg)	29.98	29.98
Average yield (Kg/Acre)	2,399	2,242
Total Revenue (Rupees/Acre)	71,922	67,215
Gross margin – owners ExFL	43,816	43,019
Opportunity cost of family labor	2,157	2,940
Gross margin – owners InFL	41,659	40,079
Rental	15,676	15,676
Operating cost– tenants/leased	43,276	39,436
Interest for working capital	793	723
Total variable cost - tenants/leased	44,069	40,159
Gross margin– tenants/leased ExFL	27,853	27,056
Opportunity cost of family labor	1,458	2,800
Gross margin– tenants/leased InFL	26,395	24,256

Note: ExFL, InFL – excluding and including the cost of family labor respectively,

Interest rate - 5.5% annually

APPENDIX D

Gross margin between INM adopters and non adopters in Lunama AgS division

Budget item (Rupees/Acre)	Adopters	Non Adopters
Seed paddy	2,820	2,862
Chemical fertilizers	1,435	1,435
Organic fertilizers	2,238	0
Insecticides	1,707	2,683
Fungicides	853	667
Weedicides	2,024	1,960
Fuel	3,611	1,000
Total input cost (Rupees/Acre)	14,688	10,607
Labor and machinery cost	19,193	19,607
Operating cost - owners	33,881	30,214
Interest for working capital	621	554
Total variable cost - owners	34,502	30,768
Price (Rupees/Kg)	26.03	26.03
Average yield (Kg/Acre)	2,206	2,093
Total Revenue (Rupees/Acre)	57,422	54,481
Gross Margin –owners ExFL	22,920	23,713
Opportunity cost of family labor	2,773	929
Gross Margin –owners InFL	20,147	22,784
Rental	13,385	13,385
Operating cost–tenants/leased	47,216	43,599
Interest for working capital	866	799
Total variable cost - tenants/leased	48,082	44,398
Gross margin– tenants/leased ExFL	9,340	10,083
Opportunity cost of family labor	2,410	975
Gross margin– tenants/leased InFL	6,930	9,108

Note: Explanation: ExFL- Excluding family labor, InFL- Including family labor,

Cost of hired labor – Rs: 700/man day, Interest rate - 5.5% annually

APPENDIX E

Gross margin between an INM adopters and non adopters in study area

Budget item (Rupees/Acre)	Adopter	Non Adopter
Seed paddy	2,815	2,761
Chemical fertilizers	1,435	1,435
Organic fertilizers	1,890	0
Insecticides	1,861	2,444
Fungicides	687	628
Weedicides	1,982	1,891
Fuel	1,922	967
Total input cost (Rupees/Acre)	12,592	10,126
Labor and machinery cost	18,024	18,505
Operating cost - owners	30,616	28,631
Interest for working capital	561	525
Total variable cost - owners	31,177	29,156
Price (Rupees/Kg)	28.13	28.13
Average yield (Kg/Acre)	2,314	2,130
Total Revenue (Rupees/Acre)	65,093	59,917
Gross Margin–owners ExFL	33,916	30,761
Opportunity cost of family labor	2,472	1,479
Gross Margin –owners InFL	31,444	29,282
Rental	14,670	14,670
Operating cost–tenants/leased	45,286	43,301
Interest for working capital	830	794
Total variable cost - tenants/leased	46,116	44,095
Gross margin– tenants/leased ExFL	18,977	15,822
Opportunity cost of family labor	1,900	1,583
Gross margin– tenants/leased InFL	17,077	14,239

Note: ExFL, InFL – excluding and including the cost of family labor respectively,

Interest rate - 5.5% annually

APPENDIX F

Gross margin between an average INM adopter and non adopter (without subsidy)

Budget item (Rupees/Acre)	Adopter	Non Adopter
Seed paddy	2,815	2,761
Chemical fert	20,509	20,509
Organic fert	1,890	0
Insecticides	1,861	2,444
Fungicides	687	628
Weedicides	1,982	1,891
Fuel	1,922	967
Total input cost (Rupees/Acre)	31,666	29,200
Labor and machinery cost	18,024	18,505
Operating cost - owners	49,690	47,705
Interest for working capital	911	875
Total variable cost - owners	50,601	48,580
Price (Rupees/Kg)	28.13	28.13
Average yield (Kg/Acre)	2,314	2,130
Total Revenue (Rupees/Acre)	65,093	59,917
Gross Margin –owners ExFL	14,492	11,337
Opportunity cost of family labor	2,472	1,479
Gross Margin –owners InFL	12,020	9,858
Rental	14,670	14,670
Operating cost – tenants/leased	64,360	62,375
Interest for working capital	1,180	1,144
Total variable cost – tenants/leased	65,540	63,519
Gross margin– tenants/leased ExFL	-447	-3,602
Opportunity cost of family labor	1,900	1,583
Gross margin– tenants/leased InFL	-2,347	-5,185

Note: ExFL, InFL – excluding and including the cost of family labor respectively,

Interest rate - 5.5% annually

CURRICULUM VITAE

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Scholarships

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