Table N-3-18 Estimation of Cash Flow of Model Farmer (Model: 9. Alternative)

63,746 4, 538 12, 832 12, 832 305 305 5, 391 9, 190 9, 190 3,940 0000 000 598 598 598 4, 793 59,947 l th 5 r Col. 4, 538 51,958 12,832 305 5, 391 9, 190 9, 190 832 598 940 598 305 (Unit: 48, 159 4,793 0th 12, ÷ 59 5, 391 9, 190 9, 190 40,170 4, 538 12, 832 12, 832 305 305 598  $\sim$ 3,940 598 15.9 4,793 2 36, 9 t h တ္ခ် 28,900 823 9, 190 9, 190 3,940 598 12,832 518 305 5, 391 4, 538 12,832 793 598 2 8 th с С 25, 327 4, 538 12,832 5, 391 9, 190 9, 190 598 24, 134 3,940 5986,402 620 335 4,793 7 th 5, 391 9, 190 9, 190 20,446 3,940 598 4, 538 12, 832 12, 832 7,378 305 8,405 5000 122 647 4,793 598 0 20. 5 th 5, 391 9, 190 9, 190 4, 538 12, 832 12, 832 8,355 647 038 598 3,940 598824 305 4,793 17,837 5th တ် ŝ 4, 793 598 5, 391 9, 190 9, 190 16, 306 3,940598 4, 538 12, 832 12, 832 9,331 926 10, 562 038 507 0 0 0 4 th 2,  $\begin{array}{c} 4, 538\\ 12, 832\\ 12, 832\end{array}$ 4. 773 5, 391 9, 190 9, 190 204 8,986 3,906 511305 181 222 3,940 598 169 4,793 598 23 181 0 0 10 41 4 3rd 4, 538 11, 494 4,076 11,494 305 462 4,666 5, 391 28 28 9.9.8 125 866 3, 800 793 598 8, 351 475 3,800 4,275 462 940 598 906 511217 6.325 69 351 ີ່ ŝ 3, 903 4, 391 2, 543 1, 995 1, 995 4, 538 10, 303 10, 303 3, 903 6, 175 7, 532 7, 532 488 903 3,906 1,030 305 249 1, 995 419 1, 674 9, 578 578 1.674 598 940 598 577 ŝ с, С <del>ر</del> ear  $\square$ Balance Carried Forward 1 0143 Sub-total (E) Required Fund (Stage Sub-total (A) Required Fund (Stage Farm Credit (Long) Farm Credit (Short) Farm Credit (Short) (11)(Short) (Short) Repayment (short) (Long) (Long) Interest (Short) Living Expenses Living Expenses Production Cost Production Cost Balance Carried Amortization Sub-total (C) Sub-total (G) Sub-total (D) Amortization Sub-total (B) Sub-total (F) Term-end Fund nitial Fund Farm Income Farm Income 0/M Charge Repayment Repayment Interest Sub-total Interest

N - 64

Table N-4-1 Annual Disbursement Schedule of The Project Cost

(Unit:Col. \$1,000) 10tal 397,854 244,804 642,558 90, 053 90, 063 90, 063 295, 672 471, 989 767, 661 5, 655, 739 5, 655, 739 5, 606, 5397 11, 265, 5397 36, 728 36, 728 36, 728 36, 728 36, 728 36, 728 36, 728 36, 728 36, 728 36, 728 36, 235 133 2, 208, 332 143, 913 2, 208, 332 143, 913 2, 208, 332 143, 913 2, 208, 332 143, 913 2, 208, 332 143, 913 2, 208, 332 143, 913 2, 208, 335 143, 277 2, 208, 377 143, 277 2, 208, 377 143, 277 2, 208, 372 143, 277 2, 208, 377 143, 277 2, 208, 377 143, 277 2, 208, 375 143, 277 145, 277 145, 277 1 205, 216 834, 356 853, 303 855, 503 11, 261, 323 8, 660, 873 1, 301, 202 1, 431, 202 1, 431, 202 1, 431, 202 1, 431, 202 1, 431, 202 1, 205, 667 1, 205, 202 1, 205, 667 1, 205, 202 1, 206, 202 ۲...۲ 69695 375 694, 356 694, 356 159, 489 85, 881 245, 370 9.0 7 89 
 1
 2
 194
 125
 2
 031
 035
 334

 2
 2
 0.31
 000
 120
 861
 861

 7
 305
 030
 030
 130
 861
 861

 7
 305
 030
 130
 260
 133
 762

 7
 305
 030
 555
 945
 133
 762

 4
 255
 123
 755
 255
 945
 133

 7
 604
 835
 555
 945
 133
 133

 7
 455
 555
 945
 246
 2465
 246

 7
 4
 829
 954
 4
 256
 246

 7
 4
 829
 26
 265
 340
 38

 7
 4
 829
 956
 20
 38
 26
 38

 23
 5
 8
 2
 5
 340
 38
 38

 23
 <td 16, 375 16, 375 413, 934 401, 650 815, 584 45.358 24.422 54.422 54.422 54.422 54.422 54.422 109.579 123.566 123.566 123.566 123.566 123.566 123.566 123.566 123.566 123.578 123.566 123.578 123.566 123.5787 123.5787 123.5787 123.5787 123.5787 123.5787 123.5787 123.5787 123.5787 123.5787 125 959 - - i e 45, 357 24, 423 29, 423 109, 578 123, 558 123, 5 375 935 649 584 210, 294 62, 676 272, 970 1.413 2.815 n S မ်းတို့ 2, 325, 511 2, 170, 082 402, 797 402, 797 402, 797 720, 404 720, 404 5, 715, 997 5, 715, 997 5, 715, 997 5, 715, 997 5, 715, 297 5, 715, 297 647 836 647 836 883 934 883 935 883 935 401 849 15 935 18 357 18 357 19 357 2233 145 123 557 123 557 123 145 123 145 171 758 490 717 758 490 780 171 758 16, 375 16, 375 210, 294 62, 676 272, 970 258 276 268 4 th 647, 836 835, 935 225, 935 432, 935 401, 649 13, 554 45, 357 45, 357 45, 357 45, 357 11, 123 567 11, 123 11, 569 11, 123 11, 569 11, 123 11, 569 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 11, 156 11, 123 12, 123 13, 124 13, 124 13, 124 13, 124 14 16, 375 685 090 р. С ..... 170, 710, 710 318, 444 8, 536 8, 536 44, 986 14, 986 354, 886 354, 886 354, 886 2, 48 205, 216 205, 216 8, 188 8, 188 750 275, 275, 11, 357 6, 988 18, 345 18, 345 385, 501 385, 253 2010 144 764 908 227, 144 139, 764 366, 908 30,99 L/C L/C F/C Total L/C Total Total L/C otal Year F/C L/C Total L/C Total t/c Total r/c L/C Total r/c L/C Total ota Total Physical Contingency Land Consolidation Land Acquisition Irrigation Canal Detailed Design Road (D/M Road) Road (Trocha 4) Administration Drainage Canal 0/M Equipment Supervision Description Revetment Sub-total Headwork Total જી

### Table N-4-2 Estimation of EIRR

		140	le N-4-2	Estimation	OI DINK	(linit	: Col. \$1,000)
"	Canadanua	Replacement	0/M	Incremental	Project	Incremental	Project
Vaan	Construc. Cost	Cost	Cost	Prod. Cost	Costs	Benefit	Return
Year	431, 483			1100. 0000	431, 483		-431, 483.
1 2	598, 230				598,230		-598,230
3	6, 193, 753				6, 193, 753		-6, 193, 753
4	6, 401, 917	)			6,401,917		-6, 401, 917
5	5, 409, 560		36,960	512, 424	5, 958, 944	849,617	-5, 109, 327
6	4, 991, 101		6,720	1,614,926	6,612,747	3, 232, 660	-3,380,087
7	1, 322, 129		6,720	2, 822, 426	4, 151, 275	6, 487, 979	2, 336, 704
8	1,000,100	1	148,996	2, 822, 426	2, 971, 422	7,767,103	4,795,681
9 9	l		148,996	2,822,426	2, 971, 422	8,412,407	5,440,985
10			148,996	2,822,426	2,971,422	8, 424, 786	5, 453, 364
11			145,636	2, 822, 426	2,968,062	8,433,285	5, 465, 223
12			145,636	2, 822, 426	2,968,062	8, 433, 285	5, 465, 223
13			290,860	2, 822, 426	3, 113, 286	8, 433, 285	5,319,999
14			290,860	2,822,426	3, 113, 286	8, 433, 285	5, 319, 999
15		816, 563	290,860	2, 822, 426	3, 929, 848	8, 433, 285	4, 503, 437
16	}		290,860	2,822,425	3, 113, 286	8, 433, 285	5, 319, 999
17			290,860	2, 822, 426	3, 113, 286	8,433,285	5,319,999
18			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
19			290,860	2, 822, 426	3, 113, 286	8,433,285	5,319,999
20			290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
21			290,860	2,822,426	3, 113, 286	8, 433, 285	5, 319, 999
22	ļ		290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
23		816, 563	290,860	2,822,426	3, 929, 848	8,433,285	4,503,437
24		[	290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
25		[	290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
26			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
27			290,860	2, 822, 426	3, 113, 286	8,433,285	5,319,999
28			290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
29			290,860	2, 822, 426	3, 113, 286	8,433,285	5, 319, 999
30			290,860	2, 822, 426	3, 113, 286	8,433,285	5,319,999
31		816, 563	290,860	2,822,426	3,929,848	8,433,285	4,503,437
32		953,695	290,860	2,822,426	4,066,980	8,433,285	4,366.305
33		219,778	290,860	2, 822, 426	3, 333, 063	8,433,285	5, 100, 222
34		219,778	290,860	2,822,426	3, 333, 063	8,433,285	5, 100, 222
35		219,778	290,860	2, 822, 426	3, 333, 063	8, 433, 285	5, 100, 222
36		219,778	290,860	2.822.426	3, 333, 063	8,433,285	5, 100, 222
37			290,860	2,822,426	3, 113, 286	8, 433, 285	5, 319, 999
38	·		290, 860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
39		816,563	290,860	2,822,426	3, 929, 848	8,433,285	4,503,437
40	ļ		290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
41			290,860	2,822,425	3, 113, 286	8, 433, 285	5,319,999
42			290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
43			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
44			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
45	l		290,860	2,822,426	3, 113, 286	8, 433, 285	5,319,999
46	1	010 500	290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
47		816, 563	290,860	2,822,426	3, 929, 848	8,433,285	4,503,437
48			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
49			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
50	1		290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
51			290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
52		E OUE ALO	290,860	2,822,426	3, 113, 286	8,433,285	5,319,999
	25, 348, 173	5, 915, 619	12, 423, 040	131, 958, 946	175, 645, 778	389, 372, 522	213, 726, 744

Internal Rate of Return (IRR) =

16.2%

N - 66

# Table N-4-3 Estimation B/C and NPV

P*******			· · · ·	(Unit:	<u>Col. \$1,000</u> )
	Project	Incremental	Project		Rate = 12%)
Year	Costs	Benefit	Return	P. Cost	I. Benefit
· 1	431,483		-431, 483	385,253	Ó
2	598, 230		-598,230	476,905	0
3	6, 193, 753		-6, 193, 753	4,408,591	0
4	6, 401, 917		-6, 401, 917	4,068,534	0
5	5, 958, 944	849,617	-5,109,327	3, 381, 265	482,096
6	6,612,747	3, 232, 660	-3, 380, 087	3,350,223	1,637,766
7	4, 151, 275	6,487,979	2,336,704	1,877,826	2,934,832
8	2,971,422	7,767,103	4, 795, 681	1,200,107	3, 137, 003
9	2,971,422	8,412,407	5,440,985	1,071,525	3,033,598
10	2,971,422	8, 424, 786	5,453,364	956,718	2,712,556
11	2,968,062	8, 433, 285	5,465,223	853,247	2, 424, 368
12	2,968,062	8, 433, 285	5, 465, 223	761,828	2,164,614
13	3, 113, 286	8, 433, 285	5, 319, 999	713, 485	1,932,691
14	3, 113, 286	8, 433, 285	5,319,999	637,040	1,725,617
15	3, 929, 848	8, 433, 285	4, 503, 437	717,969	1,540,730
16	3, 113, 286	8, 433, 285	5, 319, 999	507,844	1, 375, 651
17	3, 113, 286	8, 433, 285	5,319,999	453, 432	1, 228, 260
18	3, 113, 286	8, 433, 285	5,319,999	404,850	1,096,661
19	3, 113, 286	8,433,285	5,319,999	361,474	979, 162
20	3, 113, 286	8, 433, 285	5,319,999	322,744	874, 251
21	3, 113, 286	8, 433, 285	5, 319, 999	288, 164	780, 582
22	3, 113, 286	8,433,285	5,319,999	257, 290	696,948
23	3,929,848	8,433,285	4,503,437	289,975	622,275
24	3, 113, 286	8, 433, 285	5,319,999	205,110	555,603
25	3, 113, 286	8,433,285	5,319,999	183, 134	496,074
26	3, 113, 286	8, 433, 285	5,319,999	163, 512	442,923
27	3, 113, 286	8, 433, 285	5,319,999	145,993	395, 467
28	3, 113, 286	8, 433, 285	5, 319, 999	130,351	353,095
29	3, 113, 286	8, 433, 285	5, 319, 999	116, 385	315, 264
30	3, 113, 286	8,433,285	5,319,999	103, 915	281, 486
31	3, 929, 848	8,433,285	4,503,437	117, 116	251, 326
32	4,066,980	8,433,285	4,366,305	108, 217	224, 399
33	3, 333, 063	8,433,285	5, 100, 222	79,186	200,356
34	3, 333, 063	8,433,285	5,100,222	70,702	178,889
35	3, 333, 063	8,433,285	5,100,222	63, 127	159,722
36	3, 333, 063	8,433,285	5,100,222	56,363	142,609
37	3, 113, 286	8,433,285	5,319,999	47,006	127,330 113,687
38	3, 113, 286	8, 433, 285	5,319,999	41,970	101, 507
39	3, 929, 848	8,433,285	4,503,437	47,301	90,631
40	3, 113, 286	8,433,285	5,319,999	33, 458 29, 873	80, 920
41	3, 113, 286	8,433,285	5,319,999		72, 250
42	3, 113, 286	8,433,285	5,319,999 5,210,000	26,672	1 1
43	3, 113, 286	8,433,285	5,319,999 5,210,000	23,815	64,509 57,598
44	3, 113, 286	8,433,285	5,319,999 5,210,000	21,263	51, 426
45	3, 113, 286	8,433,285	5,319,999 5,319,000	18,985	45, 916
46	3, 113, 286	8,433,285	5,319,999		40,997
47	3,929,848	8,433,285	4,503,437	19,104	40, 997 36, 604
48	3, 113, 286	8,433,285	5,319,999	13, 513	!
49	3, 113, 286	8,433,285	5,319,999	12,065	32,682
50	3, 113, 286	8,433,285	5,319,999	10,773	29,181
51	3, 113, 286	8,433,285	5,319,999	9,618 0,500	26,054
52	3, 113, 286	8, 433, 285	5,319,999	8,588	23,263
	175, 645, 778	<u>389, 372, 522</u>	213, 726, 744	29,670,355	36, 371, 429

B/C (Discount Rate 12%) = 1.23

ANNEX O : OTHERS

#### ANNEX O : OTHERS

### TABLE OF CONTENTS

0.1	ECONOMIC EVALUATION FOR		
	FOUR ALTERNATIVE LAND USE PLAN	0 -	1
0.2	ECONOMIC EVALUATION FOR		

THREE ALTERNATIVE PROBABLE YEAR ..... 0 - 1

#### LIST OF TABLES

		P	AG	E
0-1-1	Increased Production Value (Land Use I-1)	0	_	3
0-1-2	Increased Production Cost (Land Use 1-1)	0		3
0-1-3	Production Cost Cost and Value with Project			
	Upper Zone (Land Use I-1)	0		3
0-1-4	Production Cost Cost and Value with Project			
	Middle Zone (Land Use I-1)	0	-	4
0-1-5	Production Cost Cost and Value with Project			
	Lower Zone (Land Use I-1)	0		4
0-1-6	Estimation of IRR (Land Use I-1)	0		5
0-1-7	Estimation of IRR (Land Use I-2)			6
0-1-8	Increased Production Value (Land Use II-1)			7
0-1-9	Increased Production Cost (Land Use II-1)	0	-	7
0-1-10	Production Cost Cost and Value with Project			
	Upper Zone (Land Use II-1)	0	-	7
0-1-11	Production Cost Cost and Value with Project			
	Middle Zone (Land Use 11-1)	0	-	8
0-1-12	Production Cost Cost and Value with Project			
	Lower Zone (Land Use II-1)	0	-	8
0-1-13	Estimation of IRR (Land Use II-1)	0	-	9
0-1-14	Increased Production Value (Land Use II-2)	0	•-	10
0-1-15	Increased Production Cost (Land Use II-2)	0	-	10
0-1-16	Production Cost Cost and Value with Project			
	Upper Zone (Land Use II-2)	0		10

0-1-17 Production Cost Cost and Value with Project			
Middle Zone (Land Use II-2)	0	1	1
0-1-18 Production Cost Cost and Value with Project			
Lower Zone (Land Use II-2)	0 -	1	1
0-1-19 Estimation of IRR (Land Use II-2)			
0-2-1 Increased Production Value (Probability of 1/2)			
0-2-2 Increased Production Cost (Probability of 1/2)			
0-2-3 Production Cost Cost and Value with Project			
Upper Zone (Probability of 1/2)	0 -	• 1	3
0-2-4 Production Cost Cost and Value with Project		. •	
Middle Zone (Probability of 1/2)	0 -	1	4
0-2-5 Production Cost Cost and Value with Project			
Lower Zone (Probability of 1/2)	0 -	1	4
0-2-6 Estimation of IRR (Probability of 1/2)	0 -	1	5
0-2-7 Increased Production Value (Probability of 1/5)			
0-2-8 Increased Production Cost (Probability of 1/5)	0 -	• 1	6
0–2–9 Production Cost Cost and Value with Project			
Upper Zone (Probability of 1/5)	0	1	6
0-2-10 Production Cost Cost and Value with Project			
Middle Zone (Probability of 1/5)	0, -	1	7
0-2-11 Production Cost Cost and Value with Project		· . ·	
Lower Zone (Probability of 1/5)	0 -	1	7
0-2-12 Estimation of IRR (Probability of 1/5)	0 -	1	8
0-2-13 Increased Production Value (Probability of 1/10)			
0-2-14 Increased Production Cost (Probability of 1/10)	0 -	1	9
0-2-15 Production Cost Cost and Value with Project			
Upper Zone (Probability of 1/10)	0 -	• 1	9
0-2-16 Production Cost Cost and Value with Project			
Middle Zone (Probability of 1/10)	0 -	2	0
0-2-17 Production Cost Cost and Value with Project			
Lower Zone (Probability of 1/5)	0 -	2	0
0-2-18 Estimation of IRR (Probability of 1/10)	0 -	2	1

## 0.1 Economic Evaluation for Four Alternative Land Use Plans

Economic evaluation for four alternative land use plans will be carried out based on following assumptions;

- Construction cost

Annual disbursement schedule of construction cost which is estimated in ANNEX I will be assumed as 20 % of the construction cost.

- O/M Cost

Annual operation and maintenance cost will be assumed as 2 % of the total construction cost.

- Production Cost and Value

Production cost and value are estimated on the basis of the four land use plans.

#### 0.2 Economic Evaluation for Three Alternative Probable Years

Economic evaluation for three alternative probable years of land use plan 1-2 will be carried out based on following assumtions;

- Construction cost

Annual disbursement schedule of construction cost which is estimated in ANNEX I will be assumed as 20 % of the construction cost.

- O/M Cost

Annual operation and maintenance cost will be assumed as 2 % of total construction cost.

- Production Cost and Value

Production cost and value are estimated on the basis of the irrigated or non-irrigated area which is estimated for each probable year in ANNEX I.

0 - 1

# TABLES

0 - 2

Table 0-1-1 Increased Production Value (Land Use I-1)

				(Unit: Col.\$1,000)
	Zone	Without Project	With Project	Increased Production
				Benefit
1	Upper	2, 215, 525	4, 020, 618	1,805,093
	Middle	3, 816, 151	8, 211, 162	4, 395, 011
:	Lower	3, 402, 059	7, 889, 714	4, 487, 655
	Total	9, 433, 735	20, 121, 494	10, 687, 759

Table 0-1-2 Increased Production Cost (Land Use I-1)

			(Unit: Col.\$1,000)
Zone	Without Project	With Project	Increased Production
· · · · · · · · · · · · · · · · · · ·			Cost
Upper	958,727	1, 531, 777	573,050
Middle	2, 192, 488	3, 373, 761	1, 181, 273
Lower	1, 902, 242	3, 240, 162	1,337,920
Total	5, 053, 457	8, 145, 700	3, 092, 243

Table 0-1-3 Production Cost Cost and Value with Project Upper Zone (Land Use I-1)

Upper Zone				and the second state of th		
	Area	Produc	tion cost	Producti	on value	N. P. Y
Crop	(ha)	(\$/ha)	(\$1,000)	<u>(\$/ha)</u>	(\$1,000)	(\$1,000)
Paddy rice	5,430	181,740	986,848	440,000	2, 389, 200	1,402,352
Upland rice				· .		
Maize	500	89,310	44,655	130,000	65,000	20,345
Maize (Non irr)	130	89310	11610	104000	11714	104
Soybean	250	138,100	34, 525	230,670	57,668	23, 143
Sorghum	75	113,880	8,541	189,000	14,175	5,634
Other crops	55	178,430	9,814	315,000	17,325	7,511
Plantain	960	147,680	141, 773	500,000	480,000	338, 227
Plantain (Non irr)	60	147680	-8861	300000	. 18000	9139
Cacao	260	148,830	38,696	274,680	71,417	32, 721
Papaya	410	207,970	85, 268	880,000	360,800	275, 532
Papaya (Non irr)	430	207,970	89, 427	800,000	344,000	254, 573
Oil palm		1. A.				
Other tree crops	10	559,030	5,590	880,000	8,800	3,210
Pasture	2,600	15,310	39,806	and a second	0	-39,806
Cattle	2,600	10,140	26,364	70,200	182, 520	
Total			1, 531, 777		4,020,618	2,488,841

0 3

Table 0-1-4 Production Cost Cost and Value with Project Middle Zone (Land Use I-1)

Middle Zone				and a substantia and a sub		
	Area	Produc	tion cost	Producti	on value	N. P. V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	16,600	181,740	3,016,884	440,000	7,304,000	4,287,116
Upland rice			:			
Maize	475	89,310	42, 422	130,000	61,750	19, 328
Maize (Non irr)	25	89,310	2.233	104,000	2,600	367
Soybean	150	138,100	20,715	230,670	34,601	13,886
Sorghum	100	113,880	11, 388	189,000	18,900	7,512
Other crops	60	178,430	10,706	315,000	18,900	8,194
Plantain	590	147,680	87,131	500,000	295,000	207,869
Cacao	380	148,830	56,555	274,680	104,378	47,823
Papaya						
Oil palm	320	252,760	38,547	870,200	131,904	93, 357
Other tree crops	10	77,680	777	80,000	800	23
Pasture	3,395	15,310	51,977		0	-51,977
Cattle	3, 395	10,140	34, 425	70,200	238, 329	203,904
Total			<u>8,373,761</u>		8, 211, 162	<b>1,837,40</b> 1

Table 0-1-5 Production Cost Cost and Value with Project Lower Zone (Land Use I-1)

Lower Zone						
	Area	Produc	tion cost	Producti	on value	N.P.V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	15,950	181,740	2,898,753	440,000	7,018,000	4, 119, 247
Upland rice	1					
Maize	300	89,310	26,793	130,000	39,000	12,207
Maize (Non irr)	100	89,310	8,931	104,000	10,400	1,469
Soybean	100	138,100	13,810	230,670	23,067	9,257
Sorghum	100	113,880	11, 388	163,800	16,380	4,992
Other crops	100	178,430	17,843	315,000	31,500	13,657
Other crops (Non)	20	178,430	3,569	210,000	4,200	631
Plantain	760	147,680	112, 237	500,000	380,000	267,763
Cacao	230	148,830	34, 231	274,680	63,176	28,946
Papaya						
Oil palm						
Other tree crops	10	559,030	5,590	880,000	8,800	3,210
Pasture	4,205	15,310	64,379		0	-64,379
Cattle	4,205	10,140	42,639	70, 200	295, 191	252, 552
Total			3, 240, 162		7,889,714	1,649,552

Table 0-1-6 Estimation of IRR (Land Use I-1)

1			and a second			(Unit:Col.\$1,000)
Year	Const. Cost	0/M Cost	Prod. Cost	Total	Inc. Benefit	Project Return
	3,634,043			3,634,043		-3,634,043
2	3,634,043			3,634,043		-3, 634, 043
3	3,634,043			3,634,043		-3,634,043
4	3,634,043			3,634,043		-3,634,043
5	3,634,043			3,634,043		-3, 634, 043
6	-	363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
7		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
8		363,404	3,092,243	3,455,647	10,687,759	7, 232, 112
9		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
10		363,404	3, 092, 243	3, 455, 647	10, 687, 759	7, 232, 112
11		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
12		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
13		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
14		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
15		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
16		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
17		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
18		363,404	3,092.243	3, 455, 647	10,687,759	7, 232, 112
19		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
20		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
21		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
22	1. A.	363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
23		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
24		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
25		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
26		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
27		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
28		363, 404	3,092,243	3, 455, 647	10, 687, 759	7, 232, 112
29		363, 404	3,092,243	3,455,647	10,687,759	7, 232, 112
30		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
31		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
32		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
33		363, 404	3,092,243	3, 455, 647	10, 587, 759	7, 232, 112
34		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
35		363,404	3, 092, 243	3, 455, 647	10,687,759	7, 232, 112
36		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
37		363, 404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
38		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
39		363, 404	3, 092, 243	3, 455, 647	10, 687, 759	7, 232, 112
40.		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
40		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
41 42		363,404	3,092,243	3, 455, 647	10, 687, 759	7, 232, 112
42 43		363,404	3,092,243	3, 455, 647	10, 687, 759	7, 232, 112
l r		363,404	3,092,243	3, 455, 647	10,687,759	7, 232, 112
44			3,092,243	3, 455, 647	10,687,759	7, 232, 112
- 45	·	363,404 363,404	3,092,243	3, 455, 647	10, 687, 759	7, 232, 112
46		363,404	3,092,243 3,092,243	3, 455, 647	10,687,759	7, 232, 112
47	e transferencia de la companya de la	363,404	3,092,243 3,092,243	3, 455, 647	10, 687, 759	7, 232, 112
. 48		363,404		3, 455, 647	10, 687, 759	7, 232, 112
49		363,404	3,092,243 2,002,243	3,455,647	10, 687, 759	7, 232, 112
50	10 170 040	363,404	3,092,243	5, 455, 041 173, 674, 340	480, 949, 155	307, 274, 815
	18, 170, 213	16,353,192	139, 150, 935	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 100 0 101 100	And and the second s

Estimated IRR =

24.5%

.

Table 0-1-7 Estimation of IRR (Land Use I-2)

						(Unit:Col. \$1,000)
Year	Const. Cost	0/M Cost	Prod. Cost	Total	Inc. Benefit	Project Return
1	2,702,923			2,702,923		-2, 702, 923
2	2,702,923			2,702,923		-2, 702, 923
3	2, 702, 923			2, 702, 923		-2, 702, 923
4	2,702,923			2,702,923		-2,702,923
5	2,702,923			2,702,923		-2, 702, 923
6		333,469	2,949,547	3,283,016	9, 981, 690	6,698,674
7		333, 469	2, 949, 547	3,283,016	9,981,690	6,698,674
8		333, 469	2, 949, 547	3,283,016	9, 981, 690	6,698,674
9	[	333, 469	2, 949, 547	3,283,016	9,981,690	6,698,674
10		333, 469	2,949,547	3,283,016	9,981,690	6,698,674
11		333, 469	2,949,547	3,283,016	9, 981, 690	6,698,674
12		333, 469	2,949,547	3,283,016	9,981,690	6,698,674
13		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
14		333, 469	2, 949, 547	3,283,016	9, 981, 690	6, 698, 674
15		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6,698,674
16		333, 469	2,949,547	3, 283, 016	9, 981, 690	6,698,674
17		333, 469	2,949,547	3,283,016	9,981,690	6,698,674
18		333,469	2,949,547	3, 283, 016	9, 981, 690	6,698,674
19		333, 469	2,949,547	3, 283, 016	9, 981, 690	6, 698, 674
20		333, 469	2,949,547	3,283,016	9, 981, 690	6,698,674
21		333, 469	2,949,547	3, 283, 016	9, 981, 690	6, 698, 674
22		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
23	•	333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6,698,674
24		333, 469	2,949,547	3, 283, 016	9, 981, 690	6,698,674
25		333, 469	2,949,547	3, 283, 016	9, 981, 690	6, 698, 674
26		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
27		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
28		333.469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
20		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6,698,674
30		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
31		333, 469	2,949,547	3, 283, 016	9, 981, 690	6,698,674
32	Ì	333, 469	2,949,547	3, 283, 016	9, 981, 690	6, 698, 674
33		333.469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
34		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
35		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
36		333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
37		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
38		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
39		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
39 40		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
41			2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
42		333, 469 333, 469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
43			2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
44		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
45		333,469	2, 949, 547	3, 283, 016	9, 981, 690	6, 698, 674
46		333,469			9, 981, 690	6, 698, 674
47		333, 469	2,949,547	3,283,016		
48		333,469	2,949,547	3, 283, 016	9,981,690	6,698,674
49	ļ	333,469	2,949,547	3,283,016	9,981,690	6,698,674
50		333, 469	2,949,547	3, 283, 016	9,981.690	6, 698, 674
	16,673,469	15,006,122	132, 729, 615	161, 250, 350	449, 176, 050	287, 925, 700

Estimated IRR = 28.3%

Table 0-1-8	Increased	Production	Value	(Land	Use	II-1)

Zone	Without Project	With Project	(Unit: Col.\$1,000 Increased Productic Rongfit
Upper Middle	2, 215, 525	3, 781, 713	Benefit 1,566,18
Lower	3, 816, 151 3, 402, 059	7,349,504 7,062,201	3, 533, 35 3, 660, 14
Total	9, 433, 735	18, 193, 418	8, 759, 68

Table 0-1-9 Increased Production Cost (Land Use II-1)

	and a subscription of the	CARGO MANAGEMENT CONTRACTOR CONTRACTOR OF THE		(Unit: Col.\$1,000)
	Zone	Without Project	With Project	Increased Production
		·		Cost
	Upper	958, 727	1,462,340	503,613
	Middle	2, 192, 488	3, 134, 886	942, 398
	Lower	1, 902, 242	2, 979, 672	1,077,430
L	Total	5,053,457	7, 576, 898	2, 523, 441

Table 0-1-10	Production	Cost	Cost	and	Value	with	Project
	Upper Zone	e (Lai	nd Vse	e II-	-1)		

· · ·	Area	Produc	tion cost	Producti	<u>on value _</u>	] N.P.V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	3,720	181,740	676,073	440,000	1,636,800	960,72
Upland rice			]		1	
Maize	1,340	89,310	119,675	130,000	174,200	54,52
Maize (Non irr)	130	89310	11610	104000	11714	10
Soybean	700	138,100	96,670	230,670	161,469	64.79
Sorghum	300	113,880	34,164	189,000	56,700	22,53
Other crops	220	178,430	39,255	315,000	69.300	30,04
Plantain	1,060	147,680	156, 541	500,000	530,000	373,45
Plantain (Non irr)	60	147680	8861	300000	18000	913
Cacao	260	148,830	38,696	274,680	71,417	32,72
Papaya	610	207, 970	126,862	880,000	536,800	409,93
Papaya (Non irr)	430	207, 970	89,427	800,000	344,000	254,57
Oil palm						
Other tree crops	10	559,030	5,590	880,000	8,800	3,21
Pasture	2, 315	15, 310	35, 443		0	-35,44
Cattle	2,315	10,140	23, 474	70,200	162,513	139,03
Total	<u>i</u>	· · · · · · · · · · · · · · · · · · ·	1, 462, 340		3, 781, 713	<u>2,319,37</u>

Table 0-1-11 Production Cost Cost and Value with Project Middle Zone (Land Use II-1)

Middle Zone			an a	
	Area	Production cos	t Production value	N. P. V
Crop	(ha)	(\$/ha) (\$1,000	) (\$/ha) (\$1,000)	(\$1,000)
Paddy rice	13, 320	181,740 2,420,77	7 440,000 5,860,800	3,440,023
Upland rice				
Maize	2,085	89,310 186,21	1 130,000 271,050	84,839
Maize (Non irr)	25	89,310 2,23	3 104,000 2,600	367
Soybean	1,100	138,100 151,91	0 230,670 253,737	101.827
Sorghum	500	113,880 56,94	0 189,000 94.500	37,560
Other crops	220	178,430 39,25	5 315,000 69,300	30,045
Plantain	640	147,680 94,51	5 500,000 320,000	225, 485
Cacao	380	148,830 56,55	5 274,680 104.378	47,823
Papaya				
Oil palm	320	252,760 38,54	7 870,200 131,904	93, 357
Other tree crops	10	77,680 77	7 80,000 800	23
Pasture	3, 425	15, 310 52, 43	7	-52,437
Cattle	3,425	10, 140 34, 73	0 70,200 240,435	205,706
Total		8, 134, 88	6 7, 349, 504	1.214,618

Table O-1-12 Production Cost Cost and Value with Project Lower Zone (Land Use II-1)

	Area	Produc	tion cost	Producti	on value	N. P. V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	13,100	181,740	2, 380, 794	440,000	5,764,000	8, 383, 201
Upland rice						
Maize	1,540	89,310	137, 537	130,000	200, 200	62,66
Maize (Non irr)	100	89,310	8,931	104,000	10,400	1,46
Soybean	750	138,100	103, 575	230.670	173,003	69,42
Sorghum	300	113,880	34, 164	189,000	56,700	22, 53
Sorghum(Non irr)	100	113,880	11, 388	163,800	16,380	
Other crops	150	178,430	26,765	315,000	47,250	20,48
Other crops (Non)	20	178,430	3, 569	210,000	4,200	63
Plantain	810	147,680	119,621	500,000	405,000	285, 37
Cacao	230	148,830	34, 231	274,680	63,176	28,94
Papaya						
Oil palm						
Other tree crops	10	559,030	5,590	880,000	8,800	3,21
Pasture	4,460	15,310	68,283		0	-68,28
Cattle	4,460	10,140	45, 224	70,200	313.092	267,86
Total			2,979,672		7,062,201	4,077,53

Table 0-1-13 Estimation of IRR (Land Use II-1)

Year	Const. Cost	0/M Cost	Dural			(Unit:Col.\$1,00
1	3, 123, 449	U/M COSt	Prod. Cost		Inc. Benefit	Project Return
2	3, 123, 449			3, 123, 449		-3, 123, 449
3	3, 123, 449			3, 123, 449		-3, 123, 449
4	3, 123, 449		{	3, 123, 449		-3, 123, 449
5	3, 123, 449			3, 123, 449		-3, 123, 449
6	5, 165, 445	910 015	0 500 444	3, 123, 449		-3, 123, 449
7		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
8		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
9		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
10		312, 345	2. 523, 441	2,835,786	8,759,683	5, 923, 897
11		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
12	•	312, 345	2, 523, 441	2,835,786	8,759,683	5,923,897
13	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
14 15		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
15		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
17		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
18		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
19		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
20	.31	312, 345	2, 523, 441	2,835,786	8,759,683	1
20		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
22		312, 345	2, 523, 441	2,835,786	8,759,683	5,923,897
23		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
24		312, 345	2, 523, 441	2,835,786	8,759,683	5,923,897
25		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
26		312, 345	2, 523, 441	2,835,786	8,759,683	
27 28		312, 345	2, 523, 441 2, 523, 441	2,835,786 2,835,786	8,759,683 8,759,683	
20		312,345 312,345	2, 523, 441	2,835,786	8,759,683	
30		312, 345	2, 523, 441	2,835,786	8,759,683	1
31		312, 345	2, 523, 441	2,835,786	8,759,683	
32		312, 345	2, 523, 441	2,835,786	8,759,683	
33		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
34		312, 345	2, 523, 441		8,759,683	5, 923, 897
35		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
36		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
37	ļ	312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
38	,	312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
39		312, 345	2, 523, 441	2, 835, 786	8,759,683	5, 923, 897
40		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
41		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
41		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
42		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
44		312, 345 312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
44		312, 345 312, 345	2, 523, 441	2, 835, 786	8,759,683	5, 923, 897
46	· · · · ·	312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
40		312, 345 312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
			2, 523, 441	2,835,786	8,759,683	5, 923, 897
48		312, 345	2, 523, 441	2,835,786	8,759,683	5, 923, 897
49		312, 345	2, 523, 441 2, 523, 441	2,835,786	8,759,683	5, 923, 897
50	15, 617, 244	<u>312, 345</u> 14, 055, 520	2, 523, 441	143, 227, 609	394, 185, 735	250, 958, 126

Estimated IRR =

23.7%

Table 0-1-14 Increased Production Value (Land Use II-2)

Zone	Without Project	With Project	Increased Production Benefit
Upper	2, 215, 525	3, 453, 614	1,238,089
Middle	3, 816, 151	6, 801, 622	2, 985, 471
Lower	3, 402, 059	6, 733, 144	3, <u>331, 085</u>
Total	9, 433, 735	16, 988, 380	7, 554, 645

Table O-1-15 Increased Production Cost (Land Use II-2) .

			<u>(Unit: Col.\$1,000)</u>
Zone	Without Project	With Project	Increased Production
			Cost
Upper	958, 727	1, 374, 333	415,606
Middle	2, 192, 488	3,002,827	810, 339
Lower	1, 902, 242	2,899,803	997, 561
Total	5,053,457	7, 276, 963	2, 223, 506

Table (	0-1-16	Production	n Cost	Cost	and	Value	with	Project
		Upper Zoi	ne (Lai	nd Vse	e II-	-2)		

Upper Zone						
opper zone	Area	Produc	tion cost	Producti	on value	N. P. V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	2,450	181,740	445, 263	440,000	1,078,000	632,737
Upland rice						
Maize	1,710	89,310	152,720	130,000	222, 300	69,580
Maize (Non irr)	130	89310	11610	104000	11714	104
Soybean	1,000	138,100	138,100	230,670	230,670	92,570
Sorghum	900	113,880	102,492	189,000	170,100	67,608
Other crops	220	178,430	39,255	315,000	69,300	30,045
Plantain	1,060	147,680	156, 541	500,000	530,000	373, 459
Plantain (Non irr)	60	147680	8861	300000	18000	9139
Cacao	260	148,830	38,696	274,680	71,417	32, 721
Papaya	610	207, 970	126,862	880,000	536,800	409,938
Papaya (Non irr)	430	207,970	89,427	800,000	344,000	254, 573
Oil palm						
Other tree crops	10	559,030	5,590	880,000	8,800	3, 210
Pasture	2,315	15,310	35, 443		0	-35, 443
Cattle	2,315	10,140	23, 474	70,200	162,513	139,039
Total			1, 374, 333		8,453,614	2,079,281

Table O-1-17 Production Cost Cost and Value with Project Middle Zone (Land Use II-2)

<b>a</b>	Area		tion cost	Producti	on value	N.P.V
Сгор	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	10,950	181,740	1,990,053	*******		2,827.94
Upland rice					,,	L, UD1, 24
Maize	2,235	89,310	199,608	130,000	290,550	90, 94
Maize (Non irr)	25	89, 310	2,233	104,000	· ·	36
Soybean	2,440	138,100	336, 964	230, 670	562,835	225, 87
Sorghum	1, 380	113,880	157, 154	189,000	260.820	103,66
Other crops	220	178,430	39,255	315,000	· ·	30,04
Plantain	640	147,680	94, 515	500,000	320,000	225, 48
Cacao	380	148,830	56, 555	274,680	104, 378	47,82
Papaya					104,010	11,02
Oil palm	320	252,760	38, 547	870, 200	131,904	93, 35
Other tree crops	10	77,680	777	80,000	800	2
Pasture	3, 425	15,310	52, 437		0	-52,43
Cattle	3, 425	10,140	34,730	70,200	240, 435	205, 70
Total			3,002,827			8, 798, 79

Table 0-1-18 Production Cost Cost and Value with Project Lower Zone (Land Use II-2)

Lower Zone						
	Area	Produc	tion cost	Producti	on value	N.P.V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	11,670	181,740	2,120,906	440,000	5,134,800	3,013,894
Upland rice				1		
Maize	1,490	89,310	133,072	130,000	193,700	60,628
Maize (Non irr)	220	89,310	19.648	104,000	22,880	3, 232
Soybean	1,530	138,100	211, 293	230,670	352,925	141,632
Sorghum	980	113,880	111,602	189,000	185, 220	73,618
Sorghum(Non irr)	0	113,880	0	163,800	0	0
Other crops	170	178,430	30, 333	315,000	53,550	23,217
Other crops (Non)	0	178,430	Q	210,000	0	0
Plantain	810	147,680	119,621	500,000	405,000	285, 379
Cacao	230	148,830	34,231	274,680	63,176	28,946
Papaya			}		1	
Oil palm						
Other tree crops	10	559,030	5,590	880,000	8,800	3, 210
Pasture	4,460	15,310	68,283		0	-68,283
Cattle	4,460	10,140	45, 224	70,200	313,092	267,868
Total			2,899,803	[	6, 733, 144	3, 833, 340

lear	Const. Cost	0/M Cost	Prod. Cost	Total	lnc. Benefit	Project Return
1	2,770,972			2,770,972		-2.770,972
2	2,770,972			2,770,972		-2, 770, 972
3	2,770,972		l	2,770,972		-2,770,972
4	2,770,972			2,770,972		-2, 770, 972
5	2,770,972			2,770,972		-2,770,972
6		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
7		277,097	2,223,506	2,500,603	7, 554, 645	5, 054, 042
8		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
9		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
10		277.097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
11		277,097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
12		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
13		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
14		277.097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
15		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
16		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
17		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
18		277,097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
19		277,097	2,223,506	2,500,603	7, 554, 645	5, 054, 042
20		277,097	2,223,506	2,500,603	7, 554, 645	5,054.042
21		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
22		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
23		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
24		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
25		277,097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
26		277,097	2,223,506	2,500.603	7, 554, 645	5,054,042
27		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
28		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
29		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
30		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
31		277,097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
32		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
33		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
34		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
35		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
36		277,097	2,223,506	2, 500, 603	7, 554, 645	5,054,042
37		277,097	2, 223, 506	2,500,603	7, 554, 645	5, 054, 042
38		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
39		277,097	2,223,506	2,500,603	7.554.645	5,054.042
40		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
41		277,097	2, 223, 506	2,500,603	- 7, 554, 645	5,054,042
42		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
43		277,097	2,223,506	2,500,603	7, 554, 645	5,054,042
44		277,097	2, 223, 506	2,500,603	7, 554, 645	5,054,042
45		277,097	2, 223, 506	2,500,603	7,554,645	5,054,042
46		277,097	2, 223, 506	2,500,603	7,554,645	5,054,042
47		277,097	2, 223, 506	2, 500, 603	7,554,645	5,054,042
48		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
49		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
50		277,097	2, 223, 506	2, 500, 603	7, 554, 645	5,054,042
	13,854,861	12, 469, 375	100,057,770	126, 382, 006	339, 959, 025	213, 577, 019

Estimated IRR = 23.1%

0 - 12

Table 0-2-1 Increased Production Value (Probability of 1/2)

		(Unit: Col.\$1,000)
Without Project	With Project	Increased Production
······································		Benefit
2, 215, 525	3, 820, 285	1,604,760
3, 816, 151	7,972,665	4, 156, 514
3, 402, 059	7, 547, 004	4, 144, 945
9, 433, 735	19, 339, 954	9, 906, 219
	3, 402, 059	2, 215, 525   3, 820, 285     3, 816, 151   7, 972, 665     3, 402, 059   7, 547, 004

Table 0-2-2 Increased Production Cost (Probability of 1/2)

-				(Unit: Col.\$1,000)
	Zone	Without Project	With Project	Increased Production
			· · · · · · · · · · · · · · · · · · ·	Cost
	Upper	958,727	1,496,275	537, 548
Į	Middle	2, 192, 488	3, 334, 257	1, 141, 769
	Lower	1, 902, 242	3, 168, 683	1, 266, 441
Ĺ	Total	5, 053, 457	7, 999, 215	2, 945, 758

Table 0-2-3 Production Cost Cost and Value with Project Upper Zone (Probability of 1/2)

Upper	Zone	

opper zone							
	Area	Produc	tion cost	Production value		N. P. V	
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)	
Paddy rice	4,520	181,740	821,465	440,000	1,988,800	1,167,335	
Paddy rice (w.s)	55	181,740	9,996	328,000	18,040	8,044	
Maize	500	89,310	44,655	130,000	65,000	20,345	
Maize (Non irr)	130	89, 310	11,610	104,000	13, 520	1,910	
Soybean	655	138,100	90,456	225,000	147, 375	56,920	
Soybean (w.s)	45	138,100	6,215	200,000	9,000	2,786	
Sorghum	265	113,880	30,178	189,000	50,085	19,907	
Sorghum (w.s)	35	113,880	3,986	163,800	5,733	1,747	
Other crops	200	178,430	35,686	315,000	63,000	27, 314	
Other crops (w.s)	35	178,430	6,245	210,000	7,350	1,105	
Plantain	920	147,680	135,866	500,000	460,000	324,134	
Plantain (w.s)	40	147,680	5,907	300,000	12,000	6,093	
Plantain (Non irr)	60	147,680	8,861	300,000	18,000	9,139	
Cacao	230	148,830	34,231	274,680	63,176	28,946	
Cacao (w.s)	30	148,830	4,465	196, 200	5,886	1, 421	
Papaya	375	207, 970	77,989	880,000	330,000	252,011	
Papaya (w.s)	35	207,970	7,279	800,000	28,000	20,721	
Papaya (Non irr)	430	207,970	89, 427	800,000	344,000	254, 573	
Oil palm		252,760	· 0	870,200	0	0	
Other tree crops	10	559,030	5,590	880,000	8,800	3,210	
Pasture	2,600	15,310	39,806			-39,806	
Cattle	2,600	10,140	26,364	70,200	182, 520	156,156	
Total			1,496,275		3,820,285	2,324,010	

Table 0-2-4 Production Cost Cost and Value with Project Middle Zone (Probability of 1/2)

Middle Zone	Middle Zone							
	Area	Produc	tion cost	Producti	on value	N. P. Y		
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)		
Paddy rice	14,865	181,740	2,701,565	440,000	6, 540, 600	3,839,035		
Paddy rice (w.s)	95	181,740	17,265	328,000	31,160	13,895		
Maize	495	89,310	44, 208	130,000	64,350	20,142		
Maize (w.s)	30	89,310	2,679	104,000	3,120	441		
Maize (Non irr)	25	89,310	2,233	104,000	2,600	367		
Soybean	1,150	138,100	158,815	225,000	258,750	99,935		
Soybean (w.s)	50	138,100	6,905	200,000	10,000	3,095		
Sorghum	465	113,880	52,954	189,000	87,885	34, 931		
Sorghum (w.s)	35	113,880	3,986	163,800	5,733	1,747		
Other crops	170	178,430	30,333	315,000	53,550	23, 217		
Other crops (w.s)	30	178,430	5,353	210,000	6,300	947		
Plantain	560	147,680	82,701	500,000	280,000	197.299		
Plantain (w.s)	30	147,680	4,430	300,000	9,000	4,570		
Plantain (Non irr)	. 0	147,680	- 0	300,000	. 0	0		
Cacao	350	148,830	52,091	274,680	96,138	44,048		
Cacao (w.s)	30	148,830	4,465	196,200	5,886	1, 421		
Papaya	0	207,970	0	880,000	0	0		
Papaya (w.s)	0	207, 970	0	800,000	] 0	0		
Papaya (Non irr)	0	207.970	0	800,000	0	0		
Oil palm	290	252,760	73,300	870,200	252, 358	179,058		
Oil palm (w.s)	30	252,760	7,583	870,200	26,106	18, 523		
Other tree crops	10	77,680	177	80,000	800	23		
Pasture	3,395	15,310	51,977			-51,977		
Cattle	3, 395	10,140	34, 425	70,200	238, 329	203, 904		
Total			3, 338, 046		7, 972, 665	4,634,619		

Table 0-2-5 Production Cost Cost and Value with Project Lower Zone (Probability of 1/2)

Lower Zone							
	Area	Produc	tion cost	Producti	on value	N. P. V	
Crop	(ha)	(\$/ha)	(\$1,000)	(\$ <u>/ha</u> )	(\$1,000)	(\$1,000)	
Paddy rice	14,430	181,740	2,622,508	440,000	6,349,200	3,726,692	
Paddy rice (w.s)	95	181,740	17,265	328,000	31,160	13,895	
Maize	300	89,310	26,793	130,000	39,000	12,207	
Maize (w.s)		89,310	0	104,000	0	0	
Maize (Non irr)	220	89,310	19,648	104,000	22,880	3, 232	
Soybean	810	138,100	111,861	225,000	182,250	70, 389	
Soybean (w.s)	40	138,100	5, 524	200,000	8,000	2,476	
Sorghum	465	113,880	52,954	189,000	87,885	34, 931	
Sorghum (w.s)	35	113,880	3,986	163,800	5,733	1,747	
Other crops	245	178, 430	43,715	315,000	77,175	33, 460	
Other crops (w.s)	30	178,430	5,353	210,000	6,300	947	
Plantain	725	147,680	107,068	500,000	362, 500	255, 432	
Plantain (w.s)	35	147,680	5,169	300,000	10,500	5, 331	
Plantain (Non irr)		147,680	0	300,000	0	0	
Cacao	195	148,830	29,022	274,680	53,563	24, 541	
Cacao (w.s)	35	148,830	5,209	196,200	6,867	1,658	
Papaya		207,970	0	880,000	0	· . 0	
Papaya (w.s)		207,970	0	800,000	0	· 0	
Papaya (Non irr)		207,970	0	800,000	0	. 0	
Oil palm		252,760	0	870,200	0	0	
Oil palm (w.s)		252,760	0	870,200	0	0	
Other tree crops	10	559,030	5,590	880,000	8,800	3,210	
Pasture	4,205	15,310	64,379			-64.379	
Cattle	4,205	10,140	42,639	70,200	295, 191	252, 552	
Total			3, 168, 683		7,547,004	4, 378, 320	

## Table 0-2-6 Estimation of IRR (Probability of 1/2)

		and the second				(Unit: \$1,000)
Year	Const. Cost	0/M Cost	Prod. Cost	Total	Inc. Benefit	Project Return
1	3, 109, 267			3, 109, 267		-3, 109, 267
2	3, 109, 267			3, 109, 267	]	-3, 109, 267
3	3, 109, 267	·		3, 109, 267		-3, 109, 267
4	3, 109, 267			3, 109, 267		-3, 109, 267
5	3, 109, 267	· · · · ·		3, 109, 267		-3,109,267
6		310,927	2, 945, 758	3,256,685	9,906,219	6,649,534
7	ĺ	310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
8		310,927	2, 945, 758	3,256,685	9,906,219	6.649,534
9		310,927	2,945,758	3,256,685	9,906,219	6,649,534
10		310, 927	2,945,758	3,256,685	9,906,219	6,649,534
11		310,927	2, 945, 758	3, 256, 685	9, 906, 219	6, 649, 534
12		310,927	2,945,758	3,256,685	9,906,219	6,649,534
13		310,927	2,945,758	3,256,685	9,906,219	6,649,534
14		310, 927	2,945,758	3, 256, 685	9, 906, 219	6,649,534
15		310, 927	2, 945, 758	3, 256, 685	9,906,219	6,649,534
16		310,927	2,945,758	3,256,685	9,906,219	6,649,534
17		310,927	2, 945, 758	3, 256, 685	9,906,219	6,649,534
18		310,927	2,945,758	3,256,685	9, 906, 219	6,649,534
19		310,927	2,945,758	3,256,685	9,906,219	6,649,534
20		310, 927	2, 945, 758	3,256,685	9, 906, 219	6, 649, 534
21		310, 927	2,945,758	3,256,685	9,906,219	6,649,534
22		310,927		3,256,685	9,906,219	6,649,534
23		310,927	2, 945, 758	3,256,685	9,906,219	6,649,534
24		310,927	2,945,758	3,256,685	9,906,219	6,649,534
25		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
26		310,927	2,945,758	3,256,685	9,906,219	6,649,534
27		310,927	2,945,758	3,256,685	9,906,219	6,649,534
28		310,927	1	3,256,685	9,906,219	6,649,534
29		310,927	2,945,758	3, 256, 685	9,906,219	6, 649, 534
30		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
31		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
32		310,927	2,945,758	3,256,685	9,906,219	6,649,534
33		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
34		310, 927	2, 945, 758	3, 256, 685	9,906,219	6,649,534
35		310,927	2,945,758	3,256,685	9,906,219	6,649,534
36		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
37		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
38		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
39	1	310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
40		310,927	2,945,758	3, 256, 685	9, 906, 219	6,649,534
41		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
42		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
43		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
44		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
45		310,927	2,945,758	3, 256, 685	9,906,219	6,649,534
46		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
47		310, 927	2,945,758	3, 256, 685	9, 906, 219	6,649,534
48		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
.49		310, 927	2,945,758	3, 256, 685	9,906,219	6,649,534
50		310,927	2,945,758	3, 256, 685	9,906,219	6, 649, 534
	15, 546, 336	13,991,702	132, 559, 110	162,097,148	445, 779, 855	283, 682, 707

Estimated IRR =

<sup>25.7%</sup> 

Table 0-2-7 Increased Production Value (Probability of 1/5)

				(Unit: Col.\$1,000)
Г	Zone	Without Project	With Project	Increased Production
				Benefit
F	Upper	2, 215, 525	3, 843, 646	1, 628, 121
	Middle	3,816,151	7,995,389	4, 179, 238
ł	Lower	3, 402, 059	7, 570, 146	4, 168, 087
T	Total	9, 433, 735	19, 409, 181	9, 975, 446

Table 0-2-8 Increased Production Cost (Probability of 1/5)

			(Unit: Col.\$1,000)
Zone	Without Project	With Project	Increased Production
1		. <u> </u>	Cost
Upper	958,727	1, 496, 275	537,548
Middle	2, 192, 488	3, 334, 257	1, 141, 769
Lower	1, 902, 242	3, 168, 683	1, 266, 441
Total	5,053,457	7, 999, 215	2, 945, 758

Table 0-2-9 Production Cost Cost and Value with Project Upper Zone (Probability of 1/5)

Upper Zone						
	Area	Produc	tion cost	Producti	N. P. V	
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	4,569	181, 740	830,370	440,000	2,010,360	1, 179, 990
Paddy rice (w.s)	6	181, 740	1,090	328,000	1,968	878
Maize	500	89,310	44,655	130,000	65,000	20, 345
Maize (Non irr)	130	89,310	11,610	104,000	13,520	1,910
Soybean	696	138,100	96,118	225,000	156,600	60, 482
Soybean (w.s)	4	138,100	552	200,000	800	248
Sorghum	300	113,880	34, 164	189,000	56,700	22,536
Sorghum (w.s)	0	113,880	0	163,800	0	. 0
Other crops	234	178,430	41,753	315,000	73,710	31,957
Other crops (w.s)	1	178,430	178	210,000	210	32
Plantain	957	147,680	141, 330	500,000	478,500	337,170
Plantain (w.s)	3	147,680	443	300,000	900	457
Plantain (Non irr)	60	147,680	8,861	300,000	18,000	9,139
Cacao	259	148,830	38, 547	274,680	71,142	32, 595
Cacao (w.s)	1	148,830	149	196,200	196	47
Papaya	409	207,970	85,060	880,000	359,920	274,860
Papaya (w.s)	1	207,970	208	800,000	800	592
Papaya (Non irr)	430	207, 970	89,427	800,000	344,000	254, 573
Oil palm		252,760	0	870,200	0	0
Other tree crops	10	559,030	5,590	880,000	8,800	3, 210
Pasture	2,600	15, 310	39,806			-39,806
Cattle	2,600	10,140	26, <u>364</u>	70,200	182, 520	156,156
Total			1, 496, 275		3,843,646	2,347,371

Middle Zone

Table 0-2-10Production Cost Cost and Value with Project<br/>Middle Zone (Probability of 1/5)

	Area	Produc	tion cost	Producti	on value	N. P. V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	14,943	181,740	2, 715, 741	440,000	6, 574, 920	3,859,179
Paddy rice (w.s)	17	181,740	3,090	328,000	5,576	2,486
Maize	525	89,310	46,888	130,000	68,250	21,362
Maize (w.s)	0	89, 310	0	104,000	0	
Maize (Non irr)	25	89, 310	2, 233	104.000	2,600	367
Soybean	1,196	138,100	165,168	225,000	269,100	103,932
Soybean (w.s)	4	138,100	552	200,000	800	248
Sorghum	498	113,880	56,712	189,000	94, 122	37,410
Sorghum (w.s)	2	113,880	228	163,800	328	100
Other crops	200	178,430	35,686	315,000	63,000	27, 314
Other crops (w.s)	0	178,430	0	210,000	0	0
Plantain	589	147,680	86,984	500,000	294, 500	207,516
Plantain (w.s)	1	147.680	148	300,000	300	152
Plantain (Non irr)	0	147,680	0	300,000	0	0
Cacao	379	148.830	56,407	274,680	104,104	47,697
Cacao (w.s)	1	148,830	149	196, 200	196	47
Papaya	0	207,970	. 0	880,000	0	0
Papaya (w.s)	0	207,970	0	800,000	0	0
Papaya (Non irr)	0	207, 970	0	800,000	0	0
Oil palm	320	252,760	80,883	870,200	278,464	197,581
Oil palm (w.s)	0	252,760	0	870,200	0	0
Other tree crops	10	77,680	177	80,000	800	23
Pasture	3,395	15, 310	51,977			-51,977
Cattle	3,395	10,140	34, 425	70,200	238,329	203, 904
Total			3, 338, 046		7,995,389	4,657,342

Table 0-2-11 Production Cost Cost and Value with Project Lower Zone (Probability of 1/5)

\_\_\_\_\_

LO#		
_	 	 

	Area	Produc	tion cost	Producti	on value	N. P. V
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	14, 511	181,740	2,637,229	440,000	6,384,840	3,747,611
Paddy rice (w.s)	14	181,740	2, 544	328,000	4,592	2,048
Maize	300	89,310	26,793	130,000	39,000	12,207
Maize (w.s)		89,310	0	104,000	0	0
Maize (Non irr)	220	89,310	19,648	104,000	22,880	3, 232
Soybean	847	138,100	116,971	225,000	190, 575	73,604
Soybean (w.s)	3	138,100	414	200,000	600	186
Sorghum	498	113,880	56,712	189,000	94,122	37,410
Sorghum (w.s)	2	113,880	228	163,800	328	100
Other crops	274	178,430	48,890	315,000	86,310	37,420
Other crops (w.s)	1	178,430	178	210,000	210	32
Plantain	758	147,680	111,941	500,000	379,000	267,059
Plantain (w.s)	2	147,680	295	300,000	600	305
Plantain (Non irr)		147,680	0	300,000	0	0
Cacao	229	148,830	34,082	274,680	62,902	28,820
Cacao (w.s)	1	148.830	149	196,200	196	47
Papaya		207,970	0	880,000	0	0
Papaya (w.s)		207, 970	0	800,000	0	0
Papaya (Non irr)		207,970	0	800,000	0	0
Oil palm		252,760	0	870,200	0	0
Oil palm (w.s)		252,760	0	870,200	0	0
Other tree crops	10	559,030	5,590	880,000	8,800	3,210
Pasture	4,205	15,310	64,379			-64,379
Cattle	4,205	10,140	42,639	70,200	295, 191	252, 552
Total			3, 168, 683		7,570,146	4,401,462

0 - 17

Table 0-2-12 Estimation of IRR (Probability of 1/5)

YearCordCostProd.CostTotalInc.BenefitProject Return13. 123, 4493. 123, 4493. 123, 449-3. 123, 4493. 123, 4493. 123, 449-3. 123, 449-3. 123, 4493. 123, 4493. 123, 449-3. 123, 4494. 3, 123, 4493. 123, 449-3. 123, 4495. 3, 123, 4493. 123, 449-3. 123, 44963. 123, 4493. 123, 4497312, 3452. 945, 75883. 258, 1039. 975, 4466. 717, 3438312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 3439312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34310312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34312312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34313312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34314312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34315312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34316312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34317912, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34318312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34319312, 3452. 945, 7583. 258, 1039. 975, 4466. 717, 34320				1.	· ·		(Unit: \$1,000)
	Year	Const. Cost	0/M Cost	Prod. Cost	Total	Inc. Benefit	Project Return
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					3, 123, 449		-3, 123, 449
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	2	3, 123, 449			3, 123, 449		-3, 123, 449
53, 123, 4493, 123, 4493, 123, 4496312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 3437312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 3439312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34310312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34311312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34312312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34313312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34314312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34315312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34316312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34317312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34318312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34320312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34321312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34322312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34323312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34324312, 3452, 945, 7583, 258, 1039, 975, 4	3	3, 123, 449			3, 123, 449		-3, 123, 449
6312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 3437312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 3439312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34310312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34311312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34312312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34313312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34314312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34315312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34316312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34317312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34318312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34320312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34321312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34322312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34323312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34324312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34325312, 3452, 945, 758 <td>4</td> <td>3, 123, 449</td> <td></td> <td></td> <td>3, 123, 449</td> <td></td> <td>-3, 123, 449</td>	4	3, 123, 449			3, 123, 449		-3, 123, 449
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5	3, 123, 449			3, 123, 449		-3, 123, 449
8312,3452,945,7583,258,1039,975,4466,717,3439312,3452,945,7583,258,1039,975,4466,717,34310312,3452,945,7583,258,1039,975,4466,717,34311312,3452,945,7583,258,1039,975,4466,717,34312312,3452,945,7583,258,1039,975,4466,717,34313312,3452,945,7583,258,1039,975,4466,717,34314312,3452,945,7583,258,1039,975,4466,717,34315312,3452,945,7583,258,1039,975,4466,717,34316312,3452,945,7583,258,1039,975,4466,717,34318312,3452,945,7583,258,1039,975,4466,717,34320312,3452,945,7583,258,1039,975,4466,717,34321312,3452,945,7583,258,1039,975,4466,717,34322312,3452,945,7583,258,1039,975,4466,717,34323312,3452,945,7583,258,1039,975,4466,717,34324312,3452,945,7583,258,1039,975,4466,717,34325312,3452,945,7583,258,1039,975,4466,717,34326312,3452,945,7583,258,1039,975,4466,717,34327312,3452,945,7583,258,1039,975,4466,717,34336312,3452,945,7583,258,1039,975,4466,717,	6		312,345	2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	7		312, 345	2,945,758	3,258,103		6, 717, 343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	8		312,345	2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	9		312, 345	2, 945, 758	3,258,103	9, 975, 446	6, 717, 343
12312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34313312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34315312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34316312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34317312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34318312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34320312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34321312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34322312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34323312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34324312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34325312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34326312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34327312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34336312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34337312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34338312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34331312, 3452, 945, 758<	10		312,345	2,945,758	3,258,103	9, 975, 446	6,717,343
18 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 14 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 15 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 16 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 17 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 18 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 20 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 21 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 22 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 23 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 24 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 25 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 26 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 27 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 38 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ 39 $312, 345$ $2, 945, 758$ $3, 258, 103$ $9, 975, 446$ $6, 717, 343$ <	11		312,345	2, 945, 758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	12		312, 345	2,945,758	3,258,103	9, 975, 446	6,717,343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	13		312,345	2,945,758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	14		312, 345	2, 945, 758	3,258,103	9, 975, 446	}
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	15		312, 345	2,945,758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	16		312, 345	2, 945, 758	3,258,103	9,975.446	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	17	[	312, 345	2, 945, 758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1.8		312, 345	2,945,758	3,258,103	9,975,446	6,717,343
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	19		312, 345	2,945,758	3,258,103	9,975.446	6,717,343
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20		312, 345	2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	21		312, 345	2,945,758	3, 258, 103	9,975,446	6, 717, 343
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	22		312, 345	2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	23		312, 345	2, 945, 758	3, 258, 103	9,975,446	6, 717, 343
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	24		312, 345	2,945,758	3,258,103	9,975,446	6, 717, 343
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	25			2,945,758	3,258,103	9,975,446	6, 717, 343
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				2,945,758	3,258,103	9, 975, 446	6, 717, 343
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	27		312,345	2,945,758	3,258,103	9,975,446	6, 717, 343
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	28		312,345	2, 945, 758	3,258,103	9, 975, 446	6, 717, 343
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	29		312, 345	2,945,758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	30			2,945,758	3,258,103	9,975,446	6, 717, 343
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	31			2,945,758	3,258,103	9, 975, 446	6, 717, 343
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	32	·		2,945,758	3, 258, 103	9,975,446	6, 717, 343
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33		312, 345	2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				2,945,758	3, 258, 103	9,975,446	6, 717, 343
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	35			2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	36			2,945,758	3, 258, 103	9, 975, 446	6, 717, 343
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	37					9,975,446	6, 717, 343
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	38					9,975,446	6, 717, 343
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						9, 975, 446	6, 717, 343
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					3,258,103	- 9, 975, 446	6, 717, 343
42312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34343312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34344312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34345312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34346312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34346312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34347312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34348312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34349312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34350312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 343						9, 975, 446	6, 717, 343
43 312,345 2.945,758 3.258,103 9.975,446 6,717,343   44 312,345 2.945,758 3.258,103 9.975,446 6,717,343   45 312,345 2.945,758 3.258,103 9.975,446 6,717,343   46 312,345 2.945,758 3.258,103 9.975,446 6,717,343   46 312,345 2.945,758 3.258,103 9.975,446 6,717,343   47 312,345 2.945,758 3.258,103 9.975,446 6,717,343   48 312,345 2.945,758 3.258,103 9.975,446 6,717,343   49 312,345 2.945,758 3.258,103 9.975,446 6,717,343   50 312,345 2.945,758 3.258,103 9.975,446 6,717,343						9, 975, 446	
44312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34345312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34346312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34347312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34348312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34349312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34350312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 343							
45312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34346312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34347312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34348312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34349312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34350312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 343						1	
46   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343     47   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343     48   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343     49   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343     50   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343							
47312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34348312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34349312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 34350312, 3452, 945, 7583, 258, 1039, 975, 4466, 717, 343							
48   312,345   2,945,758   3,258,103   9,975,446   6,717,343     49   312,345   2,945,758   3,258,103   9,975,446   6,717,343     50   312,345   2,945,758   3,258,103   9,975,446   6,717,343						L	
49   312,345   2,945,758   3,258,103   9,975,446   6,717,343     50   312,345   2,945,758   3,258,103   9,975,446   6,717,343							
50   312, 345   2, 945, 758   3, 258, 103   9, 975, 446   6, 717, 343							£
		15, 617, 244	14,055,520	132, 559, 110	162, 231, 874	448, 895, 070	286, 663, 196

Estimated IRR =

Table 0-2-13 Increased Production Value (Probability of 1/10)

Zone	Without Project	With Project	(Unit: Col.\$1,00 Increased Producti Benefit
Upper Middle	2, 215, 525 3, 816, 151	3, 845, 145 7, 997, 385	1, 629, 6 4, 181, 2
Lower	3, 402, 059	7, 572, 198	4, 170, 1
Total	9, 433, 735	19, 414, 728	9, 980, 9

Table 0-2-14 Increased Production Cost (Probability of 1/10)

r				(Unit: Col.\$1,000)
1	Zone	Without Project	With Project	Increased Production
.  _	· · · · · · · · · · · · · · · · · · ·			Cost
	Upper	958,727	1, 496, 275	537, 548
	Middle	2, 192, 488	3, 334, 257	1, 141, 769
	Lower	1, 902, 242	3, 168, 683	1, 266, 441
L	<u>Total</u>	5,053,457	7, 999, 215	2, 945, 758

Table 0-2-15Production Cost Cost and Value with Project<br/>Upper Zone (Probability of 1/10)

Upper Zone

upper zone			<u> </u>			
	Area	Produc	tion cost	Producti	N.P.V	
Crop	<u>(ha)</u>	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	4,574	181,740	831,279	440,000	2,012,560	1, 181, 281
Paddy rice (w.s)	1	181,740	182	328,000	328	146
Maize	500	89,310	44,655	130,000	65,000	20,345
Maize (Non irr)	130	89,310	11,610	104,000	13, 520	1,910
Soybean	699	138,100	96, 532	225,000	157,275	60,743
Soybean (w.s)	1	138,100	138	200,000	200	62
Sorghum	300	113,880	34, 164	189,000	56,700	22,536
Sorghum (w.s)	0	113,880	0	163,800	0	0
Other crops	235	178,430	41,931	315,000	74,025	32,094
Other crops (w.s)	0	178,430	0	210,000	0	0
Plantain	960	147,680	141, 773	500,000	480,000	338,227
Plantain (w.s)	· 0	147,680	0	300,000	0	0
Plantain (Non irr)	60	147,680	8,861	300,000	18,000	9,139
Cacao	260	148.830	38,696	274,680	71,417	32,721
Cacao (w.s)	0	148,830	0	196,200	0	0
Papaya	410	207,970	85,268	880,000	360,800	275, 532
Papaya (w.s)	0	207,970	. 0	800,000	0	0
Papaya (Non irr)	430	207,970	89,427	800,000	344,000	254, 573
Oil palm		252,760	0	870,200	0	0
Other tree crops	10	559,030	5,590	880,000	8,800	3, 210
Pasture	2,600	15,310	39,806		1	-39,806
Cattle	2,600	10,140	26,364	70,200	182,520	156,156
Total			1,496,275		3,845,145	2,348,869

Table 0-2-16 Production Cost Cost and Value with Project Middle Zone (Probability of 1/10)

Middle Zone

MIGGIE ZONE	Агеа	Production cost		Producti	N. P. V	
Crop	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	14,957	181,740	2, 718, 285	440,000	6, 581, 080	3, 862, 795
Paddy rice (w.s)	3	181,740	545	328,000	984	439
Maize	525	89, 310	46,888	130,000	68,250	21, 362
Maize (w.s)	0	89,310	0	104,000	0	· 0
Maize (Non irr)	25	89, 310	2, 233	104,000	2,600	367
Soybean	1,200	138,100	165,720	225,000	270,000	104, 280
Soybean (w.s)	0	138,100	0	200,000	0	( 0
Sorghum	500	113,880	56,940	189,000	94,500	37,560
Sorghum (w.s)	0	113,880	0	163,800	· 0	0
Other crops	200	178,430	35,686	315,000	63,000	-27, 314
Other crops (w.s)	0	178,430	0	210,000	0	0
Plantain	590	147,680	87,131	500,000	295,000	207,869
Plantain (w.s)	0 -	147,680	. 0	300,000	0	0
Plantain (Non irr)	0	147,680	0	300,000	0	.0.
Caeao	380	148,830	56, 555	274,680	104,378	47,823
Cacao (w.s)	0	148,830	0	196,200	0	0
Papaya	0	207,970	0	880,000	0	0
Papaya (w.s)	0	207,970	0	800,000	) 0	0
Papaya (Non irr)	0	207, 970	0	800,000	0	0
Oil palm	320	252,760	80.883	870,200	278,464	197,581
Oil palm (w.s)	0	252.760	0	870,200	0	0
Other tree crops	10	77,680	777	80,000	800	23
Pasture	3,395	15,310	51,977	]		-51,977
Cattle	3, 395	10,140	34, 425	70,200	238, 329	203, 904
Total			3, 338, 046	L	7,997,385	4,659,339

Table 0-2-17 Production Cost Cost and Value with Project Lower Zone (Probability of 1/10)

Lower Zone

LOWEL ZONG	Area	Produc	tion cost	Producti	N.P.V	
Сгор	(ha)	(\$/ha)	(\$1,000)	(\$/ha)	(\$1,000)	(\$1,000)
Paddy rice	14, 523	181, 740	2,639,410	440,000	6, 390, 120	3,750,710
Paddy rice (w.s)	2	181,740	363	328,000	656	293
Maize	300	89, 310	26,793	130,000	39,000	12,207
Maize (w.s)		89, 310	0	104,000	0	0
Maize (Non irr)	220	89,310	19,648	104,000	22, 880	3, 232
Soybean	850	138,100	117,385	225,000	191, 250	73,865
Soybean (w.s)	0	138,100	0	200,000	0	0
Sorghum	500	113, 880	56,940	189,000	94,500	37, 560
Sorghum (w.s)	0	113,880	0	163,800	0	0
Other crops	275	178,430	49,068	315,000	86,625	37, 557
Other crops (w.s)	0	178,430	0	210,000	0	0
Plantain	760	147,680	112,237	500,000	380,000	267,763
Plantain (w.s)	0	147,680	0	300,000	0	0
Plantain (Non irr)	Ť	147,680	0	300,000	0	÷ 0 .
Cacao	230	148,830	34, 231	274,680	63,176	28,946
Cacao (w.s)	0	148,830	0	196,200	. 0	0.
Papaya	, , ,	207,970	l o	880,000	0	0
Papaya (w.s)		207,970	0	800,000	0	0
Papaya (Non irr)		207,970	0	800,000	0	0
Oil palm		252,760	0	870, 200	0	· 0 :
Oil palm (w.s)		252,760	0	870,200	. 0	0
Other tree crops	10	559,030	5,590	880,000	8,800	3, 210
Pasture	4,205	15, 310	64,379			-64, 379
Cattle	4, 205	10,140	42,639	70, 200	<u>295, 191</u>	252, 552
Total	.,		3, 168, 683		7, 572, 198	4,403,515
EIO EGT	and the second sec	└──────────────────────────────────────				استبالت الشينيت ختي

Year	Const. Cost	0/11 01-1				<u>(Unit: \$1,000)</u>
1041	3, 137, 374	0/M Cost	Prod. Cost		Inc. Benefit	Project Return
2	3, 137, 374			3, 137, 374		-3,137,374
3				3, 137, 374		-3, 137, 374
	3, 137, 374			3, 137, 374		-3, 137, 374
	3, 137, 374			3, 137, 374		-3, 137, 374
5	3, 137, 374			3, 137, 374		-3, 137, 374
6		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
1	-	313, 737	2, 945, 758	3, 259, 495	9,980,993	6, 721, 498
8		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
9		313,737	2, 945, 758	3, 259, 495	9, 980, 993	6,721,498
10		313, 737	2, 945, 758	3, 259, 495	9,980,993	6,721,498
11		313, 737	2, 945, 758	3, 259, 495	9, 980, 993	6, 721, 498
12		313, 737	2,945,758	3, 259, 495	9, 980, 993	6,721,498
13	1	313, 737	2,945,758	3,259,495		6,721,498
14		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
15		313, 737	2,945,758	3, 259, 495	9,980,993	6, 721, 498
16		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
17		313, 737	2, 945, 758	3, 259, 495	9,980,993	6, 721, 498
18		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
19		313, 737	2,945,758	3, 259, 495	9,980,993	6, 721, 498
20		313,737	2,945,758	3, 259, 495	9, 980, 993	6, 721, 498
21		313, 737	2, 945, 758	3, 259, 495	9, 980, 993	6, 721, 498
22		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
23	ĺ	313,737	2,945,758	3, 259, 495	9,980,993	6, 721, 498
24		313,737	2,945,758	3, 259, 495	9, 980, 993	6,721,498
25	]	313, 737	2, 945, 758	3, 259, 495	9,980,993	6, 721, 498
26		313, 737	2, 945, 758	3, 259, 495	9,980,993	6,721,498
27		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
28		313, 737	2,945,758	3, 259, 495	9,980,993	6, 721, 498
29		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
30		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
31		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
32		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
33		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
34		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
35		313, 737	2,945,758	3, 259, 495	9, 980, 993	6,721,498
36		313,737	2,945,758	3,259,495	9,980,993	6,721,498
37		313,737	2,945,758	3,259,495	9,980,993	6,721,498
38		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
39		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
40		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
41		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
42		313,737	2,945,758	3, 259, 495	9,980,993	6,721,498
43		313, 737	2,945,758	3, 259, 495	9,980,993	6,721,498
44		313, 737	2,945,758	3, 259, 495	9,980,993	6, 721, 498
45		313, 737	2,945,758	3, 259, 495	9, 980, 993	6, 721, 498
46		313,737	2, 945, 758	3,259,495	9, 980, 993	6, 721, 498
47		313, 737	2,945,758	3, 259, 495	9, 980, 993	6, 721, 498
48		313, 737	2, 945, 758	3, 259, 495	9, 980, 993	6, 721, 498
49		313, 737	2, 945, 758	3, 259, 495	9,980,993	6,721,498
50		313, 737	2,945,758	3, 259, 495	9, 980, 993	6,721,498
	15, 686, 872	14, 118, 185	132, 559, 110	162, 364, 167	449, 144, 685	286, 780, 518
	10,000,016	17,110,100				the second s

Estimated IRR =

•