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Pengelolaan sumberdaya air bendung Langla di Daerah Irigasi Padawaras Kabupaten Tasikmalaya
MULYADI, Prof.Dr.Ir. Bambang Triatmodjo, CES.,DEA

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LAMPIRAN



Data Klimatologi Tasikmalaya

Item	Jan	Peb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
Temperatur Rerata	25.00	25.20	25.10	25.80	25.30	25.10	24.70	24.20	24.70	25.10	25.70	25.20
Kelembaban Udara	83.70	83.90	83.00	84.30	84.10	84.20	84.30	80.60	80.30	82.50	83.70	84.30
Penyinaran Matahari	52.00	58.60	58.70	66.00	66.00	65.00	64.00	65.30	47.00	58.00	40.50	55.00
Kecepatan Angin	2.50	2.60	2.30	2.70	3.00	2.90	2.90	2.80	2.90	2.80	2.40	2.20

Sumber : BMG Jawa Barat

Letak Geografis : 07° 74' 04" LS 108° 06' 37" BT

Elevasi : 314 m dpl

U_{day} : 2m/detik

Evapotranspirasi (Eto)

Kota	Jan	Peb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
Tasikmalaya	4.50	4.62	4.40	4.41	4.01	3.72	3.72	4.08	4.12	4.54	4.10	4.38

Sumber : Hasil Perhitungan

Penyelesaian (Metode FAO – Modifikasi Penman)

Bulan : Januari

$$ET_r = c \left[\frac{\Delta}{\Delta + \gamma} R_n + \frac{\Delta}{\Delta + \gamma} (0.27)(1.0 + 0.01U_{2m})(e_s - e_a) \right] \dots\dots\dots (5-19)$$

$$T_{mean} = 25.0 \text{ } ^\circ\text{C}$$

$$\Delta = 2(0,00738T'_{mean} + 0,8072)^7 - 0,00116 \dots\dots\dots (5-24)$$

$$\Delta = 2(0,00738 \times 25 + 0,8072)^7 - 0,00116 = 1,885 \text{ mb}^\circ\text{C}$$

$$\gamma = 1,6134P / L \dots\dots\dots (5-27)$$

$$P = 1013 - 0,1055 \times \text{Elevasi} \dots\dots\dots (5-28)$$

$$= 1013 - 0,1055 \times 314 = 979,87 \text{ mb}$$

$$L = 2500,78 - 2,3601 T_{mean} \dots\dots\dots (5-30)$$

$$= 2500,78 - 2,3601 \times 25 = 2441,777 \text{ KJkb}$$

$$\gamma = 1,6134 \times 979,87 / 2441,777 = 0,647 \text{ mb} / ^\circ\text{C}$$



$$\frac{\Delta}{\Delta + \gamma} = \frac{1,885}{1,885 + 0,647} = 0,744$$

$$\frac{\gamma}{\Delta + \gamma} = \frac{0,647}{1,885 + 0,647} = 0,255$$

$$R_{s0} = 12,5 \text{ Jam (Table 5-9)} = 693.5 \text{ cal/cm}^2 \text{ (Table 5-10)}$$

Konversi Cal/cm² = Jm²

$$\text{Cal cm}^2 = 41,868 \text{ jm}^2$$

$$R_s = \frac{693.5 \text{ Calcm}^2 / \text{hari}}{L\rho_w} \left[41,868 \frac{\text{j/m}^2}{\text{Cal/m}^2} \right]$$

$$R_s = \frac{29035,45 \text{ kj/m}^2 / \text{hari} (1000 \text{ mm/m})}{2441,777 \text{ kj/kg} (1000 \text{ kg/m}^3)} = 11,89 \text{ mm/hari}$$

$$\varepsilon = a_1 - b_1 (e_s - dp)^{1/2}$$

$$a_1 = 0,39 \text{ (Table 5 - 11)}$$

$$b_1 = -0,05$$

$$e_s = 33,8639 \left\{ [0,00738(T_{mean}) + 0,8072]^3 - 0,000019(1,8T_{mean} + 48) + 0,001316 \right\}$$

$$e_s = 33,8639 \left\{ [0,00738 \times 25 + 0,8072]^3 - 0,000019(1,8 \times 25 + 48) + 0,001316 \right\} = 31,664 \text{ mb}$$

$$\varepsilon = 0,39 - (-0,05)(31,664)^{1/2} = 0,108$$

$$R_{ho} = 0,095(4,8995 \times 10^{-3} \text{ j/m}^2 / \text{hari}) \left[(25 + 273)^4 + (25 + 273)^4 \right] / 2$$

$$= 4254753,3 \text{ j/m}^2 / \text{hari} = 4254,753 \text{ kj/m}^2 / \text{hari}$$

Konversi : mm/hari

$$\frac{4254,753 \text{ kj/m}^2 / \text{hari} (1000 \text{ mm/m})}{2441,777 \text{ kj/kg} (1000 \text{ kg/m}^3)} = 1,742 \text{ mm/hari}$$

Penyinaran : 12 jam (n)

Table 5-9 (N) = 10,2



$$n/N = 12/10,2 = 1,176$$

$$\sigma = \text{konstanta Stephan - Boltzman} = 4,8995 \times 10^{-3} \text{ J/m}^2/\text{hari/K}^4$$

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$$R_b = (0,9n/N + 0,1) \left[0,34 - 0,044(e_s - dp)^{1/2} \sigma (T_{mean})^4 \right] \dots \dots \dots (5-43)$$

$$= (0,9 \times 1,176 + 0,1) \left[0,34 - 0,044(31,664)^{1/2} \right] \times 4,8995 \times 10^{-3} (25)^4$$

$$= 4193343,6 \text{ j/m}^2/\text{hari} = 4193,343 \text{ kj/m}^2/\text{hari}$$

Konversi : mm/hari

$$\frac{4193,343 \text{ kj/m}^2/\text{hari}}{2441,777 \text{ kj/kg}} = 1,717 \text{ mm/hari}$$

$$R_u = (1 - \alpha)R_s - R_b \quad \alpha = 0,25$$

$$= (1 - 0,25)11,89 - 1,717 = 10,17 \text{ mm/hari}$$

$$e_a = e_s (RH_{mean})$$

$$e_a = 31,664(0,837) = 26,5 \text{ mb}$$

$$e_s - e_a = 31,664 - 26,5 = 5,16 \text{ mb}$$

$$U_2 = 2 \times 24 = 48 \text{ km/hari}$$

$$U_{2m} = 48 \text{ km/hari} \left[\frac{2,0 \text{ m}}{0,46} \right]^{0,2} = 64,40 \text{ km/hari}$$

$$U_{2m-day} = \frac{4}{5} (64,40 \text{ km/hari}) = 51,52 \text{ km/12 jam}$$

$$U_{2day} = \frac{51,52}{12} \left[\frac{1 \text{ jam}}{3600 \text{ det}} \right] \frac{1000 \text{ m}}{1 \text{ km}} = 4,29 \text{ m/det}$$

Nilai (c) (Tabel 5-7)

$$c = 1,1$$

$$ET_r = c \left[\frac{\Delta}{\Delta + \gamma} R_u + \frac{\gamma}{\Delta + \gamma} (0,27)(1,0 + 0,01 U_{2m})(e_s - e_a) \right]$$

$$= 1,1 [0,744 \times 4,86 + 0,255(0,27)(1,0 + 0,01 \times 4,29)(5,16)]$$

$$= 4,5 \text{ mm/hari}$$

Maka ET untuk bulan Januari $4,5 \times 31 = 139,5 \text{ mm/bulan}$



UNIVERSITAS GADJAH MADA **TABLE 5-7** Adjustment factor (c) in FAO modified Penman equation.

Rs mm/d	RHmax = 30%				RHmax = 60%				RHmax = 90%			
	3	6	9	12	3	6	9	12	3	6	9	12
Uday m/s	Uday/Unight = 4.0											
0	.86	.90	1.00	1.00	.96	.98	1.05	1.05	1.02	1.06	1.10	1.10
3	.79	.84	.92	.97	.92	1.00	1.11	1.19	.99	1.10	1.27	1.32
6	.68	.77	.87	.93	.85	.96	1.11	1.19	.94	1.10	1.26	1.33
9	.55	.65	.76	.90	.76	.88	1.02	1.14	.88	1.01	1.16	1.27
	Uday/Unight = 3.0											
0	.86	.90	1.00	1.00	.96	.98	1.05	1.05	1.02	1.06	1.10	1.10
3	.76	.81	.88	.94	.87	.96	1.06	1.12	.94	1.04	1.18	1.28
6	.61	.68	.81	.88	.77	.88	1.02	1.10	.86	1.01	1.15	1.22
9	.46	.56	.72	.82	.67	.79	.88	1.05	.78	.92	1.06	1.18
	Uday/Unight = 2.0											
0	.86	.90	1.00	1.00	.96	.98	1.05	1.05	1.02	1.06	1.10	1.10
3	.69	.76	.85	.92	.83	.91	.99	1.05	.89	.98	1.10	1.14
6	.53	.61	.74	.84	.70	.80	.94	1.02	.79	.92	1.05	1.12
9	.37	.48	.65	.76	.59	.70	.81	.95	.71	.81	.96	1.06
	Uday/Unight = 1.0											
0	.86	.90	1.00	1.00	.96	.98	1.05	1.05	1.02	1.06	1.10	1.10
3	.64	.71	.82	.89	.78	.86	.94	.99	.85	.92	1.01	1.05
6	.43	.53	.68	.79	.62	.70	.84	.93	.72	.82	.95	1.00
9	.27	.41	.59	.70	.50	.60	.75	.87	.62	.72	.87	.96

TABLE 5-9 Mean daily duration of maximum possible sunshine hours (N) for different months and latitudes.

Northern												
Lats	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Southern												
Lats	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
50	8.5	10.1	11.8	13.8	15.4	16.3	15.9	14.5	12.7	10.8	9.1	8.1
48	8.8	10.2	11.8	13.6	15.2	16.0	15.6	14.3	12.6	10.9	9.3	8.3
46	9.1	10.4	11.9	13.5	14.9	15.7	15.1	14.2	12.6	10.9	9.5	8.7
44	9.3	10.5	11.9	13.4	14.7	15.4	15.2	14.0	12.6	11.0	9.7	8.9
42	9.4	10.6	11.9	13.4	14.6	15.2	14.9	13.9	12.6	11.1	9.8	9.1
40	9.6	10.7	11.9	13.3	14.4	15.0	14.7	13.7	12.5	11.2	10.0	9.3
35	10.1	11.0	11.9	13.1	14.0	14.5	14.3	13.5	12.4	11.3	10.3	9.8
30	10.4	11.1	12.0	12.9	13.6	14.0	13.9	13.2	12.4	11.5	10.6	10.2
25	10.7	11.3	12.0	12.7	13.3	13.7	13.5	13.0	12.3	11.6	10.9	10.6
20	11.0	11.5	12.0	12.6	13.1	13.3	13.2	12.8	12.3	11.7	11.2	10.9
15	11.3	11.6	12.0	12.5	12.8	13.0	12.9	12.6	12.2	11.8	11.4	11.2
10	11.6	11.8	12.0	12.3	12.6	12.7	12.6	12.4	12.1	11.8	11.6	11.5
5	11.8	11.9	12.0	12.2	12.3	12.4	12.3	12.3	12.1	12.0	11.9	11.8
0	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

TABLE 5-11 Net radiation coefficients. (Adapted from Jensen, 1974.)

Region	Experimental Coefficients for Net Radiation Eqs. 5-37 and 5-39			
	a	b	a ₁	b ₁
Davis, California	1.35	-0.35	0.25	-0.046
Southern Idaho	1.22	-0.18	0.325	-0.044
England	N.A. ^a	N.A.	0.47	-0.065
	N.A.	N.A.	0.44	-0.080
Australia	N.A.	N.A.	0.35	-0.042
General	1.2	-0.2	0.39	-0.05
	1.0	0	—	—

^aN.A., not available

Lampiran 2. Daftar harga komoditi tahun 2000 di Kabupaten Tasikmalaya

No	Komoditi	Harga (Rp/kg)											
		Jan	Peb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	Padi	2,525	2,520	2,200	2,250	2,250	2,250	2,212.5	2,160	2,000	2,000	1,975	2,000
2	Jagung	980	965	900	890	900	890	875	780	800	825	890	860
3	Kacang tanah	1,917	1,933	1,850	1,933	1,767	1,767	1,600	1,767	1,767	1,550	1,575	1,667
4	Kedelai	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800
5	Bawang merah	5,435	5,355	5,600	6,505	7,350	8,500	8,205	8,250	9,025	13,435	12,305	11,250
6	Cabai	5,500	6,335.1	5,075	5,250	6,100	5,800	5,800	5,250	5,250	4,250	2,650	2,650

Sumber : Badan Pusat Statistik Tasikmalaya, 2000

Lampiran 2a. Daftar harga komoditi tahun 2000 di Kabupaten Tasikmalaya

No	Komoditi	Harga (Rp/ha)											
		Jan	Peb	Mar	Apr	Mei	Jun	Jul	Ags	Sep	Okt	Nop	Des
1	Padi	11,907,900.00	11,884,320.00	10,375,200.00	10,611,000.00	10,611,000.00	10,611,000.00	10,434,150.00	10,186,560.00	9,432,000.00	9,432,000.00	9,314,100.00	9,432,000.00
2	Jagung	5,368,440.00	5,286,270.00	4,930,200.00	4,875,420.00	4,930,200.00	4,875,420.00	4,793,250.00	4,272,840.00	4,382,400.00	4,519,350.00	4,875,420.00	4,711,080.00
3	Kacang tanah	2,574,531.00	2,596,019.00	2,484,550.00	2,598,019.00	2,373,081.00	2,373,081.00	2,148,800.00	2,373,081.00	2,373,081.00	2,081,650.00	2,115,225.00	2,238,781.00
4	Kedelai	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00	2,057,400.00
5	Bawang merah	5,435,000.00	5,355,000.00	5,600,000.00	6,505,000.00	7,350,000.00	8,500,000.00	8,205,000.00	8,250,000.00	9,025,000.00	13,435,000.00	12,305,000.00	11,250,000.00
6	Cabai	11,880,000.00	13,683,816.00	10,962,000.00	11,340,000.00	13,176,000.00	12,528,000.00	12,528,000.00	11,340,000.00	11,340,000.00	9,180,000.00	5,724,000.00	5,724,000.00

Sumber : Hasil Perhitungan



Lampiran 3. Perhitungan biaya produksi per hektar

No	Jenis Sarana Produksi	Satuan	Harga Satuan (Rp)	Jumlah Kebutuhan Sarana Produksi per hektar						Jumlah Biaya Sarana Produksi per hektar					
				Padi	Jagung	Kacang tanah	Kedelai	Bawang merah	Cabai	Padi	Jagung	Kacang tanah	Kedelai	Bawang merah	Cabai
1	Benih :														
	Padi	kg	2,823	55.36						156,281					
	Jagung	kg	1,250		35.95					-	44,938				
	Kacang tanah	kg	3,050			22.85				-	-	69,693			
	Kedelai	kg	3,075				45.04			-	-	-	138,498		
	Bawang merah	kg	21,000					70.32		-	-	-	-	1,476,720	
	Cabai	kg	15,000						9.95						149,250
2	Urea	kg	400	275.72	113.96	249.11	115.05	178.55	155.93	110,288	45,584	99,644	46,020	71,420	62,372
3	Za	kg	300	5.12	-	-	-	125.71	76.85	1,536	-	-	-	37,713	23,055
4	TSP	kg	643	140.03	78.97	70.75	79.35	125.71	74.15	90,039	50,778	45,492	51,022	80,832	47,678
5	Kcl	kg	650	93.57	-	68.35	-	82.81	73.35	60,821	-	44,428	-	53,827	47,678
6	Pupuk cair	ltr	475	-	-	-	-	-	-	-	-	-	-	-	-
7	Pestisida	ltr	4,882	0.60	0.94	1.25	1.09	0.37	1.22	2,929	4,589	6,103	5,321	1,806	5,956
8	Pupuk kandang	pikul	475	-	-	200.35	-	-	-	-	-	95,166	-	-	-
9	Tenaga kerja	jam	1,625	1,725	375.57	999.35	900.25	1,033.73	1,002.00	2,803,288	610,301	1,623,944	1,462,906	1,679,811	1,628,250
	Total									3,225,182	756,190	1,984,469	1,703,768	3,402,129	1,964,239

Sumber : - Proyek Irigasi Jawa Barat, 2000

- BPS. Tasikmalaya, 2000



Lampiran 4. Perhitungan harga satuan produksi per hektar

No	Komoditi	Produksi (ton/ha)	Harga Jual Produksi (Rp/ton)		Biaya Produksi (Rp/ha)	Harga Bersih Produksi (Rp/ha)	
			Musim Hujan	Musim Kemarau		Musim Hujan	Musim Kemarau
1	Padi	4.716	11,907,900.00	10,186,560.00	3,225,182.00	8,682,718.00	6,961,378.00
2	Jagung	5.478	5,368,440.00	4,272,840.00	756,190.00	4,612,250.00	3,516,650.00
3	Kacang tanah	1.343	2,574,531.00	2,373,081.00	1,984,469.00	590,062.00	388,612.00
4	Kedelai	1.143	2,057,400.00	2,057,400.00	1,703,768.00	353,632.00	353,632.00
5	Bawang Merah	1.00	5,435,000.00	8,250,000.00	3,402,129.00	2,032,871.00	4,847,871.00
6	Cabai	2.16	11,880,000.00	11,340,000.00	1,964,239.00	9,915,761.00	9,375,761.00

Sumber : Hasil Perhitungan

Max 8682718XA1mt1 + 8682718XA1mt2 + 8682718XA1mt3 + 8682718XB1mt1 +
8682718XB1mt2 + 8682718XB1mt3 + 4612250XA2mt1 + 4612250XA2mt2 +
4612250XA2mt3 + 4612250XB2mt1 + 4612250XB2mt2 + 4612250XB2mt3 +
590062XA3mt1 + 590062XA3mt2 + 590062XB3mt1 + 590062XB3mt2 +
353632XA4mt1 + 353632XA4mt2 + 353632XA4mt3 + 353632XB4mt1 +
353632XB4mt2 + 353632XB4mt3 + 2032871XA5mt1 + 2032871XA5mt2 +
2032871XA5mt3 + 2032871XB5mt1 + 2032871XB5mt2 + 2032871XB5mt3 +
9915761XA6mt1 + 9915761XA6mt2 + 9915761XA6mt3 + 9915761XB6mt1 +
9915761XB6mt2 + 9915761XB6mt3

St

! Constraint Kebutuhan & ketersediaan air musim tanam 1

0.0234XA1mt1+0.0019XA2mt1+0.00095XA3mt1+ 0.00134XA4mt1+0.0025XA5mt1+
0.00257XA6mt1+0.0235XB1mt1+0.00027XB2mt1+0.00099XB3mt1+
0.00134XB4mt1+0.0019XB5mt1+0.0019XB6mt1=<=78.70

! Constraint Kebutuhan & ketersediaan air musim tanam 2

0.0245XA1mt2+0.0056XA2mt2+0.00326XA3mt2+ 0.00571XA4mt2+0.00377XA5mt2+
0.00377XA6mt2+0.0266XB1mt2+0.00517XB2mt2+0.00395XB3mt2+
0.00596XB4mt2+0.00486XB5mt2+0.00486XB6mt2=<=42.40

! Constraint Kebutuhan & ketersediaan air musim tanam 3

0.0000XA1mt3+0.0051XA2mt3+0.0034XA3mt3+ 0.00575XA4mt3+0.00231XA5mt3+
0.00231XA6mt3+0.0060XB1mt3+0.00697XB2mt3+0.00415XB3mt3+
0.00575XB4mt3+0.00305XB5mt3+0.00305XB6mt3=<=10.00

! Constraint luas lahan musim tanam 1

XA1mt1+XA2mt1+XA3mt1+XA4mt1+XA5mt1+XA6mt1+XB1mt1+XB2mt1+XB3mt1+
XB4mt1+XB5mt1+XB6mt1=<=2593

! Constraint luas lahan musim tanam 2

XA1mt2+XA2mt2+XA3mt2+XA4mt2+XA5mt2+XA6mt2+XB1mt2+XB2mt2+XB3mt2+
XB4mt2+XB5mt2+XB6mt2=<=2593

! Constraint luas lahan musim tanam 3

XA1mt3+XA2mt3+XA3mt3+XA4mt3+XA5mt3+XA6mt3+XB1mt3+XB2mt3+XB3mt3+
XB4mt3+XB5mt3+XB6mt3=<=2593

End



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



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LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7713471E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	1233043.000000
XA1MT2	0.000000	1233043.000000
XA1MT3	0.000000	1233043.000000
XB1MT1	0.000000	1233043.000000
XB1MT2	0.000000	1233043.000000
XB1MT3	0.000000	1233043.000000
XA2MT1	0.000000	5303511.000000
XA2MT2	0.000000	5303511.000000
XA2MT3	0.000000	5303511.000000
XB2MT1	0.000000	5303511.000000
XB2MT2	0.000000	5303511.000000
XB2MT3	0.000000	5303511.000000
XA3MT1	0.000000	9325699.000000
XA3MT2	0.000000	9325699.000000
XB3MT1	0.000000	9325699.000000
XB3MT2	0.000000	9325699.000000
XA4MT1	0.000000	9562129.000000
XA4MT2	0.000000	9562129.000000
XA4MT3	0.000000	9562129.000000
XB4MT1	0.000000	9562129.000000
XB4MT2	0.000000	9562129.000000
XB4MT3	0.000000	9562129.000000
XA5MT1	0.000000	7882890.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	7882890.000000
XB5MT1	0.000000	7882890.000000
XB5MT2	0.000000	7882890.000000
XB5MT3	0.000000	7882890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9915761.000000
XB3MT3	0.000000	9915761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9915761.000000
6)	0.000000	9915761.000000
7)	0.000000	9915761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 3

OBJECTIVE FUNCTION VALUE

1) 0.8125285E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	61714.781250
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	5912724.000000
XA2MT2	0.000000	5357291.000000
XA2MT3	0.000000	5912724.000000
XB2MT1	0.000000	5912724.000000
XB2MT2	0.000000	5344654.000000
XB2MT3	0.000000	5912724.000000
XA3MT1	0.000000	9934912.000000
XA3MT2	0.000000	9310711.000000
XB3MT1	0.000000	9934912.000000
XB3MT2	0.000000	9330989.000000
XA4MT1	0.000000	10171342.000000
XA4MT2	0.000000	9619142.000000
XA4MT3	0.000000	10171342.000000
XB4MT1	0.000000	10171342.000000
XB4MT2	0.000000	9626489.000000
XB4MT3	0.000000	10171342.000000
XA5MT1	0.000000	8492103.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	8492103.000000
XB5MT1	0.000000	8492103.000000
XB5MT2	0.000000	7914923.000000
XB5MT3	0.000000	8492103.000000
XA6MT1	0.000000	609213.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	609213.000000
XB6MT1	0.000000	609213.000000
XB6MT2	0.000000	32032.912109
XB6MT3	0.000000	609213.000000
XA3MT3	0.000000	10524974.000000
XB3MT3	0.000000	10524974.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	18.023802	0.000000
3)	0.000000	29387990.000000
4)	10.000000	0.000000
5)	0.000000	10524974.000000
6)	0.000000	9804968.000000
7)	0.000000	10524974.000000

NO. ITERATIONS= 3



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.9016076E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	195209.359375
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	7230506.000000
XA2MT2	0.000000	5473622.000000
XA2MT3	0.000000	7230506.000000
XB2MT1	0.000000	7230506.000000
XB2MT2	0.000000	5433650.500000
XB2MT3	0.000000	7230506.000000
XA3MT1	0.000000	11252694.000000
XA3MT2	0.000000	9278291.000000
XB3MT1	0.000000	11252694.000000
XB3MT2	0.000000	9342431.000000
XA4MT1	0.000000	11489124.000000
XA4MT2	0.000000	9742465.000000
XA4MT3	0.000000	11489124.000000
XB4MT1	0.000000	11489124.000000
XB4MT2	0.000000	9765704.000000
XB4MT3	0.000000	11489124.000000
XA5MT1	0.000000	9809885.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	9809885.000000
XB5MT1	0.000000	9809885.000000
XB5MT2	0.000000	7984213.000000
XB5MT3	0.000000	9809885.000000
XA6MT1	0.000000	1926995.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	1926995.000000
XB6MT1	0.000000	1926995.000000
XB6MT2	0.000000	101322.960938
XB6MT3	0.000000	1926995.000000
XA3MT3	0.000000	11842756.000000
XB3MT3	0.000000	11842756.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	18.023802	0.000000
3)	0.000000	92956832.000000
4)	10.000000	0.000000
5)	0.000000	11842756.000000
6)	0.000000	9565314.000000
7)	0.000000	11842756.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.9906867E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	328703.937500
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	8548288.000000
XA2MT2	0.000000	5589953.000000
XA2MT3	0.000000	8548288.000000
XB2MT1	0.000000	8548288.000000
XB2MT2	0.000000	5522647.000000
XB2MT3	0.000000	8548288.000000
XA3MT1	0.000000	12570476.000000
XA3MT2	0.000000	9245871.000000
XB3MT1	0.000000	12570476.000000
XB3MT2	0.000000	9353874.000000
XA4MT1	0.000000	12806906.000000
XA4MT2	0.000000	9865789.000000
XA4MT3	0.000000	12806906.000000
XB4MT1	0.000000	12806906.000000
XB4MT2	0.000000	9904920.000000
XB4MT3	0.000000	12806906.000000
XA5MT1	0.000000	11127667.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	11127667.000000
XB5MT1	0.000000	11127667.000000
XB5MT2	0.000000	8053503.000000
XB5MT3	0.000000	11127667.000000
XA6MT1	0.000000	3244777.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	3244777.000000
XB6MT1	0.000000	3244777.000000
XB6MT2	0.000000	170613.000000
XB6MT3	0.000000	3244777.000000
XA3MT3	0.000000	13160538.000000
XB3MT3	0.000000	13160538.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	18.023802	0.000000
3)	0.000000	156525664.000000
4)	10.000000	0.000000
5)	0.000000	13160538.000000
6)	0.000000	9325659.000000
7)	0.000000	13160538.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.1079766E+12

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	462198.500000
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	9866070.000000
XA2MT2	0.000000	5706284.000000
XA2MT3	0.000000	9866070.000000
XB2MT1	0.000000	9866070.000000
XB2MT2	0.000000	5611643.000000
XB2MT3	0.000000	9866070.000000
XA3MT1	0.000000	13888258.000000
XA3MT2	0.000000	9213451.000000
XB3MT1	0.000000	13888258.000000
XB3MT2	0.000000	9365316.000000
XA4MT1	0.000000	14124688.000000
XA4MT2	0.000000	9989112.000000
XA4MT3	0.000000	14124688.000000
XB4MT1	0.000000	14124688.000000
XB4MT2	0.000000	10044136.000000
XB4MT3	0.000000	14124688.000000
XA5MT1	0.000000	12445449.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	12445449.000000
XB5MT1	0.000000	12445449.000000
XB5MT2	0.000000	8122793.000000
XB5MT3	0.000000	12445449.000000
XA6MT1	0.000000	4562559.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	4562559.000000
XB6MT1	0.000000	4562559.000000
XB6MT2	0.000000	239903.046875
XB6MT3	0.000000	4562559.000000
XA3MT3	0.000000	14478320.000000
XB3MT3	0.000000	14478320.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	18.023802	0.000000
3)	0.000000	220094512.000000
4)	10.000000	0.000000
5)	0.000000	14478320.000000
6)	0.000000	9086005.000000
7)	0.000000	14478320.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.1168845E+12

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	595693.062500
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	11183852.000000
XA2MT2	0.000000	5822615.000000
XA2MT3	0.000000	11183852.000000
XB2MT1	0.000000	11183852.000000
XB2MT2	0.000000	5700639.500000
XB2MT3	0.000000	11183852.000000
XA3MT1	0.000000	15206040.000000
XA3MT2	0.000000	9181031.000000
XB3MT1	0.000000	15206040.000000
XB3MT2	0.000000	9376758.000000
XA4MT1	0.000000	15442470.000000
XA4MT2	0.000000	10112436.000000
XA4MT3	0.000000	15442470.000000
XB4MT1	0.000000	15442470.000000
XB4MT2	0.000000	10183352.000000
XB4MT3	0.000000	15442470.000000
XA5MT1	0.000000	13763231.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	13763231.000000
XB5MT1	0.000000	13763231.000000
XB5MT2	0.000000	8192083.000000
XB5MT3	0.000000	13763231.000000
XA6MT1	0.000000	5880341.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	5880341.000000
XB6MT1	0.000000	5880341.000000
XB6MT2	0.000000	309193.093750
XB6MT3	0.000000	5880341.000000
XA3MT3	0.000000	15796102.000000
XB3MT3	0.000000	15796102.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	18.023802	0.000000
3)	0.000000	283663360.000000
4)	10.000000	0.000000
5)	0.000000	15796102.000000
6)	0.000000	8846350.000000
7)	0.000000	15796102.000000

NO. ITERATIONS= 0



Lampiran 5.14. Penyelesaian optimal dengan *harga padi Rp 17,113,884.00*

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.1257924E+12

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	729187.625000
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	12501634.000000
XA2MT2	0.000000	5938946.000000
XA2MT3	0.000000	12501634.000000
XB2MT1	0.000000	12501634.000000
XB2MT2	0.000000	5789636.000000
XB2MT3	0.000000	12501634.000000
XA3MT1	0.000000	16523822.000000
XA3MT2	0.000000	9148611.000000
XB3MT1	0.000000	16523822.000000
XB3MT2	0.000000	9388201.000000
XA4MT1	0.000000	16760252.000000
XA4MT2	0.000000	10235759.000000
XA4MT3	0.000000	16760252.000000
XB4MT1	0.000000	16760252.000000
XB4MT2	0.000000	10322568.000000
XB4MT3	0.000000	16760252.000000
XA5MT1	0.000000	15081013.000000
XA5MT2	0.000000	7882890.000000
XA5MT3	0.000000	15081013.000000
XB5MT1	0.000000	15081013.000000
XB5MT2	0.000000	8261373.000000
XB5MT3	0.000000	15081013.000000
XA6MT1	0.000000	7198123.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	7198123.000000
XB6MT1	0.000000	7198123.000000
XB6MT2	0.000000	378483.125000
XB6MT3	0.000000	7198123.000000
XA3MT3	0.000000	17113884.000000
XB3MT3	0.000000	17113884.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	18.023802	0.000000
3)	0.000000	347232192.000000
4)	10.000000	0.000000
5)	0.000000	17113884.000000
6)	0.000000	8606696.000000
7)	0.000000	17113884.000000

NO. ITERATIONS= 0

Max 6961378XA1mt1 + 6961378XA1mt2 + 6961378XA1mt3 + 6961378XB1mt1 +
6961378XB1mt2 + 6961378XB1mt3 + 3516650XA2mt1 + 3516650XA2mt2 +
3516650XA2mt3 + 3516650XB2mt1 + 3516650XB2mt2 + 3516650XB2mt3 +
388612XA3mt1 + 388612XA3mt2 + 388612XB3mt1 + 388612XB3mt2 +
353632XA4mt1 + 353632XA4mt2 + 353632XA4mt3 + 353632XB4mt1 +
353632XB4mt2 + 353632XB4mt3 + 4847871XA5mt1 + 4847871XA5mt2 +
4847871XA5mt3 + 4847871XB5mt1 + 4847871XB5mt2 + 4847871XB5mt3 +
9375761XA6mt1 + 9375761XA6mt2 + 9375761XA6mt3 + 9375761XB6mt1 +
9375761XB6mt2 + 9375761XB6mt3

St

! Constraint Kebutuhan & ketersediaan air musim tanam 1

0.0234XA1mt1+0.0019XA2mt1+0.00095XA3mt1+ 0.00134XA4mt1+0.0025XA5mt1+
0.00257XA6mt1+0.0235XB1mt1+0.00027XB2mt1+0.00099XB3mt1+
0.00134XB4mt1+0.0019XB5mt1+0.0019XB6mt1=<78.70

! Constraint Kebutuhan & ketersediaan air musim tanam 2

0.0245XA1mt2+0.0056XA2mt2+0.00326XA3mt2+ 0.00571XA4mt2+0.00377XA5mt2+
0.00377XA6mt2+0.0266XB1mt2+0.00517XB2mt2+0.00395XB3mt2+
0.00596XB4mt2+0.00486XB5mt2+0.00486XB6mt2=<42.40

! Constraint Kebutuhan & ketersediaan air musim tanam 3

0.0000XA1mt3+0.0051XA2mt3+0.0034XA3mt3+ 0.00575XA4mt3+0.00231XA5mt3+
0.00231XA6mt3+0.0060XB1mt3+0.00697XB2mt3+0.00415XB3mt3+
0.00575XB4mt3+0.00305XB5mt3+0.00305XB6mt3=<10.00

! Constraint luas lahan musim tanam 1

XA1mt1+XA2mt1+XA3mt1+XA4mt1+XA5mt1+XA6mt1+XB1mt1+XB2mt1+XB3mt1+
XB4mt1+XB5mt1+XB6mt1=<2593

! Constraint luas lahan musim tanam 2

XA1mt2+XA2mt2+XA3mt2+XA4mt2+XA5mt2+XA6mt2+XB1mt2+XB2mt2+XB3mt2+
XB4mt2+XB5mt2+XB6mt2=<2593

! Constraint luas lahan musim tanam 3

XA1mt3+XA2mt3+XA3mt3+XA4mt3+XA5mt3+XA6mt3+XB1mt3+XB2mt3+XB3mt3+
XB4mt3+XB5mt3+XB6mt3=<2593

End

LP OPTIMUM FOUND AT STEP 4

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2414383.000000
XA1MT2	0.000000	2414383.000000
XA1MT3	0.000000	2414383.000000
XB1MT1	0.000000	2414383.000000
XB1MT2	0.000000	2414383.000000
XB1MT3	0.000000	2414383.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 4

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW SLACK OR SURPLUS DUAL PRICES

2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0



Lampiran 6.7. Penyelesaian optimal dengan harga per Rp 7,196,110.00
 Universitas Gadjah Mada, 2003. Diunduh dari <http://ethnopropony.com/2011/01/>

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7293405E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	0.000000	2375261.000000
XA1MT2	0.000000	2375261.000000
XA1MT3	0.000000	2375261.000000
XB1MT1	0.000000	2375261.000000
XB1MT2	0.000000	2375261.000000
XB1MT3	0.000000	2375261.000000
XA2MT1	0.000000	5859111.000000
XA2MT2	0.000000	5859111.000000
XA2MT3	0.000000	5859111.000000
XB2MT1	0.000000	5859111.000000
XB2MT2	0.000000	5859111.000000
XB2MT3	0.000000	5859111.000000
XA3MT1	0.000000	8987149.000000
XA3MT2	0.000000	8987149.000000
XB3MT1	0.000000	8987149.000000
XB3MT2	0.000000	8987149.000000
XA4MT1	0.000000	9022129.000000
XA4MT2	0.000000	9022129.000000
XA4MT3	0.000000	9022129.000000
XB4MT1	0.000000	9022129.000000
XB4MT2	0.000000	9022129.000000
XB4MT3	0.000000	9022129.000000
XA5MT1	0.000000	4527890.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4527890.000000
XB5MT1	0.000000	4527890.000000
XB5MT2	0.000000	4527890.000000
XB5MT3	0.000000	4527890.000000
XA6MT1	0.000000	0.000000
XA6MT2	2593.000000	0.000000
XA6MT3	2593.000000	0.000000
XB6MT1	2593.000000	0.000000
XB6MT2	0.000000	0.000000
XB6MT3	0.000000	0.000000
XA3MT3	0.000000	9375761.000000
XB3MT3	0.000000	9375761.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	73.773300	0.000000
3)	32.624390	0.000000
4)	4.010170	0.000000
5)	0.000000	9375761.000000
6)	0.000000	9375761.000000
7)	0.000000	9375761.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 3

OBJECTIVE FUNCTION VALUE

1) 0.7377388E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	12585.717773
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	5983350.000000
XA2MT2	0.000000	5870078.500000
XA2MT3	0.000000	5983350.000000
XB2MT1	0.000000	5983350.000000
XB2MT2	0.000000	5867501.500000
XB2MT3	0.000000	5983350.000000
XA3MT1	0.000000	9111388.000000
XA3MT2	0.000000	8984092.000000
XB3MT1	0.000000	9111388.000000
XB3MT2	0.000000	8988228.000000
XA4MT1	0.000000	9146368.000000
XA4MT2	0.000000	9033756.000000
XA4MT3	0.000000	9146368.000000
XB4MT1	0.000000	9146368.000000
XB4MT2	0.000000	9035254.000000
XB4MT3	0.000000	9146368.000000
XA5MT1	0.000000	4652129.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	4652129.000000
XB5MT1	0.000000	4652129.000000
XB5MT2	0.000000	4534422.500000
XB5MT3	0.000000	4652129.000000
XA6MT1	0.000000	124239.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	124239.000000
XB6MT1	0.000000	124239.000000
XB6MT2	0.000000	6532.587402
XB6MT3	0.000000	124239.000000
XA3MT3	0.000000	9500000.000000
XB3MT3	0.000000	9500000.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	18.023802	0.000000
3)	0.000000	5993198.500000
4)	10.000000	0.000000
5)	0.000000	9500000.000000
6)	0.000000	9353167.000000
7)	0.000000	9500000.000000

NO. ITERATIONS= 3



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.7951969E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	98692.820312
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	6833350.000000
XA2MT2	0.000000	5945114.500000
XA2MT3	0.000000	6833350.000000
XB2MT1	0.000000	6833350.000000
XB2MT2	0.000000	5924906.000000
XB2MT3	0.000000	6833350.000000
XA3MT1	0.000000	9961388.000000
XA3MT2	0.000000	8963181.000000
XB3MT1	0.000000	9961388.000000
XB3MT2	0.000000	8995608.000000
XA4MT1	0.000000	9996368.000000
XA4MT2	0.000000	9113302.000000
XA4MT3	0.000000	9996368.000000
XB4MT1	0.000000	9996368.000000
XB4MT2	0.000000	9125052.000000
XB4MT3	0.000000	9996368.000000
XA5MT1	0.000000	5502129.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	5502129.000000
XB5MT1	0.000000	5502129.000000
XB5MT2	0.000000	4579116.500000
XB5MT3	0.000000	5502129.000000
XA6MT1	0.000000	974239.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	974239.000000
XB6MT1	0.000000	974239.000000
XB6MT2	0.000000	51226.277344
XB6MT3	0.000000	974239.000000
XA3MT3	0.000000	10350000.000000
XB3MT3	0.000000	10350000.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	18.023802	0.000000
3)	0.000000	46996576.000000
4)	10.000000	0.000000
5)	0.000000	10350000.000000
6)	0.000000	9198584.000000
7)	0.000000	10350000.000000

NO. ITERATIONS= 0



LP OPTIMUM FOUND AT STEP 0

OBJECTIVE FUNCTION VALUE

1) 0.8695543E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	210125.531250
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	7933350.000000
XA2MT2	0.000000	6042220.500000
XA2MT3	0.000000	7933350.000000
XB2MT1	0.000000	7933350.000000
XB2MT2	0.000000	5999194.500000
XB2MT3	0.000000	7933350.000000
XA3MT1	0.000000	11061388.000000
XA3MT2	0.000000	8936119.000000
XB3MT1	0.000000	11061388.000000
XB3MT2	0.000000	9005160.000000
XA4MT1	0.000000	11096368.000000
XA4MT2	0.000000	9216245.000000
XA4MT3	0.000000	11096368.000000
XB4MT1	0.000000	11096368.000000
XB4MT2	0.000000	9241260.000000
XB4MT3	0.000000	11096368.000000
XA5MT1	0.000000	6602129.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	6602129.000000
XB5MT1	0.000000	6602129.000000
XB5MT2	0.000000	4636955.000000
XB5MT3	0.000000	6602129.000000
XA6MT1	0.000000	2074239.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	2074239.000000
XB6MT1	0.000000	2074239.000000
XB6MT2	0.000000	109065.164062
XB6MT3	0.000000	2074239.000000
XA3MT3	0.000000	11450000.000000
XB3MT3	0.000000	11450000.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	18.023802	0.000000
3)	0.000000	100059768.000000
4)	10.000000	0.000000
5)	0.000000	11450000.000000
6)	0.000000	8998536.000000
7)	0.000000	11450000.000000

NO. ITERATIONS= 0

LP OPTIMUM FOUND AT STEP 0

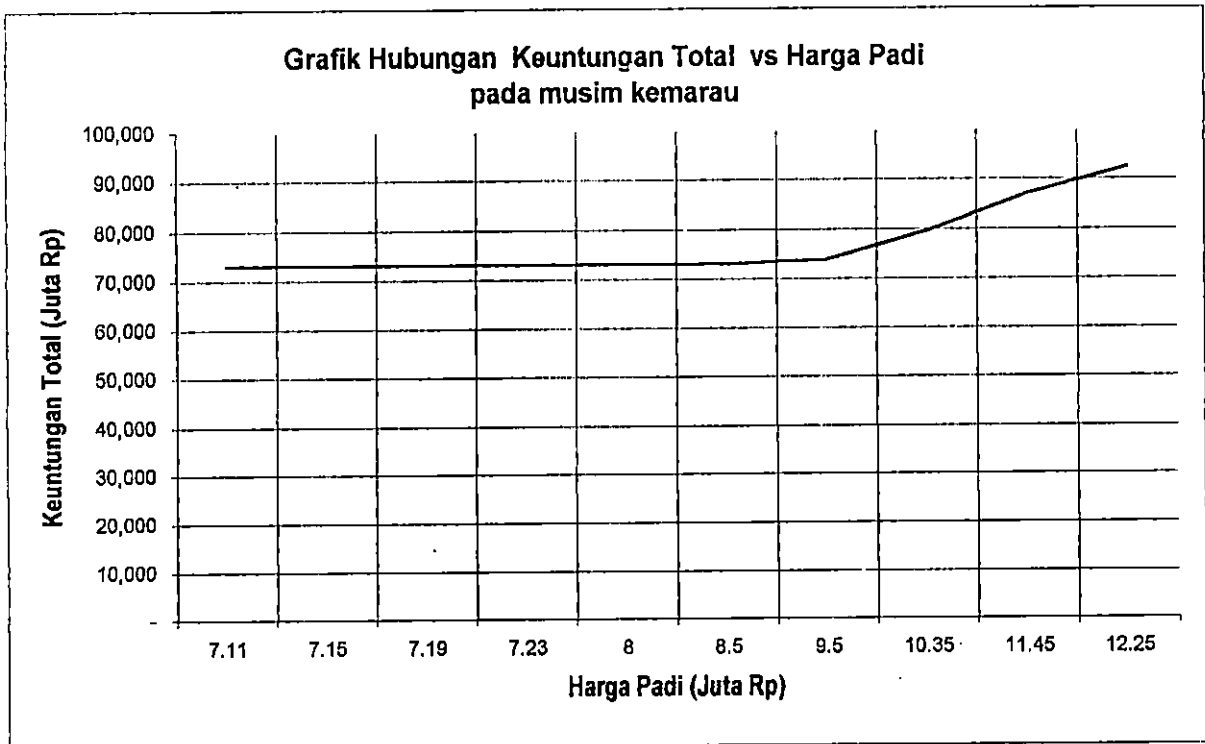
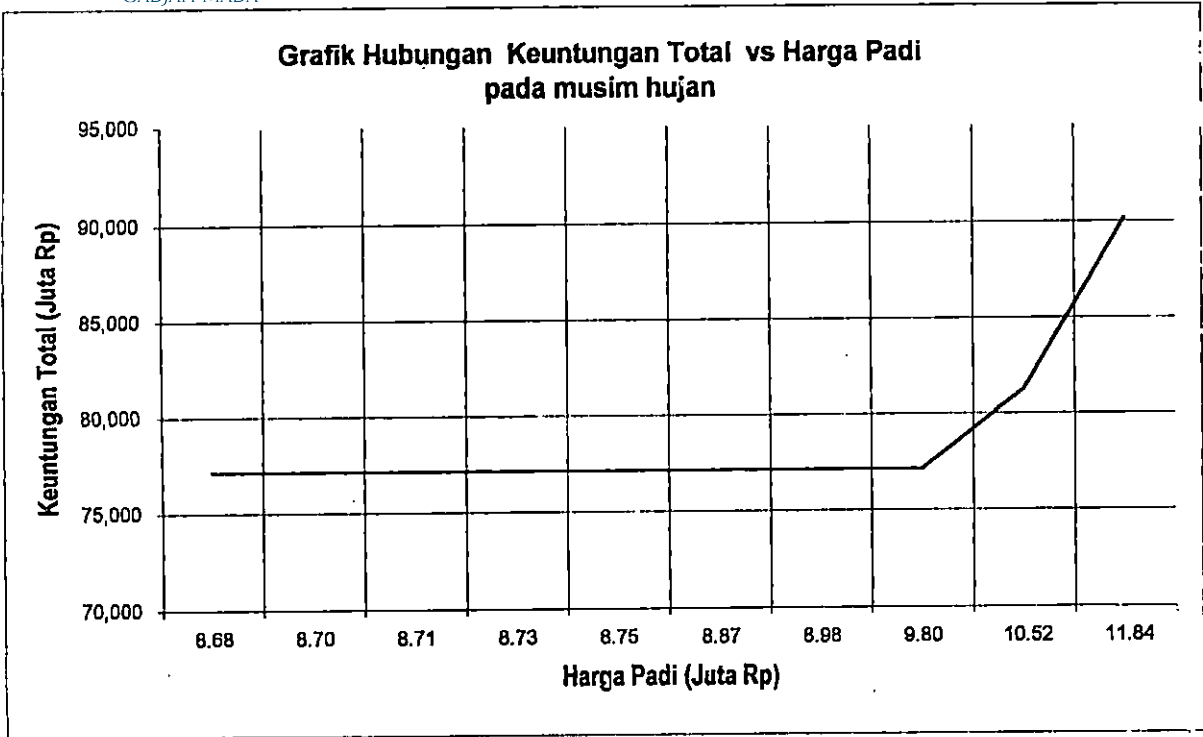
OBJECTIVE FUNCTION VALUE

1) 0.9236326E+11

VARIABLE	VALUE	REDUCED COST
XA1MT1	2593.000000	0.000000
XA1MT2	1573.776733	0.000000
XA1MT3	2593.000000	0.000000
XB1MT1	0.000000	0.000000
XB1MT2	0.000000	291167.500000
XB1MT3	0.000000	0.000000
XA2MT1	0.000000	8733350.000000
XA2MT2	0.000000	6112842.500000
XA2MT3	0.000000	8733350.000000
XB2MT1	0.000000	8733350.000000
XB2MT2	0.000000	6053222.500000
XB2MT3	0.000000	8733350.000000
XA3MT1	0.000000	11861388.000000
XA3MT2	0.000000	8916437.000000
XB3MT1	0.000000	11861388.000000
XB3MT2	0.000000	9012106.000000
XA4MT1	0.000000	11896368.000000
XA4MT2	0.000000	9291112.000000
XA4MT3	0.000000	11896368.000000
XB4MT1	0.000000	11896368.000000
XB4MT2	0.000000	9325775.000000
XB4MT3	0.000000	11896368.000000
XA5MT1	0.000000	7402129.000000
XA5MT2	0.000000	4527890.000000
XA5MT3	0.000000	7402129.000000
XB5MT1	0.000000	7402129.000000
XB5MT2	0.000000	4679020.000000
XB5MT3	0.000000	7402129.000000
XA6MT1	0.000000	2874239.000000
XA6MT2	1019.223328	0.000000
XA6MT3	0.000000	2874239.000000
XB6MT1	0.000000	2874239.000000
XB6MT2	0.000000	151129.812500
XB6MT3	0.000000	2874239.000000
XA3MT3	0.000000	12250000.000000
XB3MT3	0.000000	12250000.000000

ROW	SLACK OR SURPLUS	DUAL PRICES
2)	18.023802	0.000000
3)	0.000000	138651184.000000
4)	10.000000	0.000000
5)	0.000000	12250000.000000
6)	0.000000	8853046.000000
7)	0.000000	12250000.000000

NO. ITERATIONS= 0



Lampiran 8.



Pengelolaan sumberdaya air bendung Langia di Daerah Irigasi Padawaras Kabupaten Tasikmalaya
 dengan harga produksi komoditi musim hujan (bulan Januari)

MULYADI, Prof. Dr. Ir. Bambang Triatmodjo, C.S., DEA
 Universitas Gadjah Mada, 2003. Diunduh dari <http://etd.repository.ugm.ac.id/>

No	Jenis Komoditi (Rp/ha)	Luas Tanam Golongan A (Ha)			Luas Tanam Golongan B (Ha)			Total Luas Tanam (Ha/th)	Intensitas Tanam (%)	Keuntungan Total (Rp/th)
		MT-1	MT-2	MT-3	MT-1	MT-2	MT-3			
I	Kondisi Eksisting (Harga Padi Rp 8,682,718.00)									
1	Padi	1235	750	0.00	1155	400	0.00	3540	189.09	30,736,821,720.00
2	Jagung	203	100	90.00	0.00	176	300	869	46.42	4,008,045,250.00
3	Kacang Tanah	0.00	250	100.00	0.00	0.00	150	500	26.71	295,031,000.00
4	Kedelai	0.00	0.00	15.00	0.00	24.0	8.00	47.0	2.51	16,620,704.00
5	Bawang Merah	0.00	1.00	1.00	0.00	1.00	1.00	4.00	0.21	8,131,484.00
6	Cabai	0.00	5.00	3.00	0.00	0.00	12.00	20.0	1.07	198,315,220.00
	Total	1438	1106	209	1155	601	471	4980	266.01	35,262,965,378.00
	IP Padi	47.80	29.03	0.00	44.70	15.48	0.00	3540	189.09	
	IP Non Padi	18.19	31.89	18.72	0.00	18.01	42.19	1440	76.92	
	Total IP	65.99	60.92	18.72	44.70	33.49	42.19			
II	Hasil Optimasi (Harga Padi Rp 8,682,718.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
III	(Harga Padi Rp 8,700,500.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
IV	(Harga Padi Rp 8,718,282.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
V	(Harga Padi Rp 8,736,064.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
VI	(Harga Padi Rp 8,753,846.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
VII	(Harga Padi Rp 8,871,628.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
VIII	(Harga Padi Rp 8,989,410.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
IX	(Harga Padi Rp 9,807,192.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	77,134,704,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			



Lanjutan (Harga Musim Hujan)

X										
	(Harga Padi Rp 10,524,974.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	71,146,474,360.63
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	81,252,849,286.70
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XI										
	(Harga Padi Rp 11,842,756.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	80,054,386,463.40
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	90,160,761,389.47
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XII										
	(Harga Padi Rp 13,160,538.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	88,862,298,566.16
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	99,068,673,492.24
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XIII										
	(Harga Padi Rp 14,478,320.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	97,870,210,668.93
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	107,976,585,595.00
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XIV										
	(Harga Padi Rp 15,796,102.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	106,778,122,771.70
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	116,884,497,697.77
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XV										
	(Harga Padi Rp 17,113,884.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	115,686,034,874.46
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	10,106,374,926.07
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	125,792,409,800.53
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			



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Lanjutan (Harga Musim Kemarau)

X										
	(Harga Padi Rp 8,000,350.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	72,934,044,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	72,934,044,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XI										
	(Harga Padi Rp 8,500,450.00)									
6	Cabai	0.00	2593	2593	2593	0.00	0.00	7779	300.00	72,934,044,819.00
	Total	0.00	2593	2593	2593	0.00	0.00	7779	300.00	72,934,044,819.00
	IP Padi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	IP Non Padi	0.00	100.00	100.00	100.00	0.00	0.00	7779	300.00	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XII										
	(Harga Padi Rp 9,500,000.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	64,217,878,963.50
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	9,555,994,328.95
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	73,773,873,292.45
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XIII										
	(Harga Padi Rp 10,350,000.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	69,963,689,186.55
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	9,555,994,328.95
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	79,519,683,515.50
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XIV										
	(Harga Padi Rp 11,450,000.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	77,399,443,592.85
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	9,555,994,328.95
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	86,955,437,921.80
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			
XV										
	(Harga Padi Rp 12,250,000.00)									
1	Padi	2593.00	1573.78	2593.00	0.00	0.00	0.00	6759.78	260.69	82,807,264,979.25
6	Cabai	0.00	1019.22	0.00	0.00	0.00	0.00	1019.22	39.31	9,555,994,328.95
	Total	0.00	2593.00	0	0	0.00	0.00	7779.00	300.00	92,363,259,308.20
	IP Padi	0.00	60.69	0.00	0.00	0.00	0.00	6759.78	260.69	
	IP Non Padi	0.00	39.31	100.00	100.00	0.00	0.00	1019.22	39.31	
	Total IP	0.00	100.00	100.00	100.00	0.00	0.00			