

lampiran 1. Profil Petani Sapi di Kecamatan Tenggarang Bondowoso Tahun 2020

No	Nama	Jumlah sapi	Periode pemeliharaan	Umur	Pendidikan	Pengalaman	pekerjaan utama	Luas kandang (m ²)	Desa
		(ekor)	(bulan)	(thn)	(thn)	(thn)			
sistem modern									
1	Pak Muna	2	4	52	6	20	petani	12	Koncer Kidul
2	Pak An Bahrawi	3	6	33	12	7	pegawai	24	Koncer Kidul
3	pak abdul salam	2	6	57	6	22	petani	20	Bataan
4	Pak Her	2	5	39	6	10	petani	12	Bataan
5	Pak Risal	2	5	34	6	12	petani	12	Lojajar
6	Pak Tija	3	5	46	6	15	petani	16	Lojajar
7	Pak Makripa	2	6	49	6	12	petani	12	Pekalangan
8	Pak wakik	2	4	59	6	19	petani	12	Pekalangan
9	Pak Has	4	5	44	6	12	petani	16	Sumber Salam
10	Pak Yanto	4	6	33	9	14	petani	16	Sumber Salam
Rata-rata		3	5	45	7	14		15	
sistem tradisional									
1	Pak Ani	2	12	44	6	14	petani	12	Tangsil Kulon
2	Pak Sey	3	12	61	9	21	petani	15	Tangsil Kulon
3	Pak As	2	12	58	6	17	petani	12	Tangsil Kulon
4	Pak Burawi	3	12	66	6	25	petani	16	Tangsil Kulon
5	Pak mus	4	12	47	6	13	petani	20	Gebang Kulon
6	Pak Sakdiyah	4	12	49	6	15	petani	20	Gebang Kulon
7	Pak Yuni	2	12	44	0	14	petani	12	Gebang Kulon
8	Put Dur	2	12	71	6	17	petani	12	Koncer Darul
9	Pak Talim	2	12	68	6	38	petani	12	Koncer Darul
10	Pak Pamat	2	12	55	6	15	petani	12	Koncer Darul
Rata-rata		3	12	56	6	19		14	

Lampiran 2. Sewa Lahan Usahatani Sapi Potong di Kecamatan Tenggarang Bondowoso tahun 2020.

No	Luas kandang (m2)	Jumlah Sapi (ekor)	Periode Pemeliharaan (bulan)	Sewa lahan (Rp/m2/tahun)	Biaya Sewa (Rp/periode)
Sistem Modern					
1	12	2	4	5,000	20,000
2	24	3	6	5,000	60,000
3	20	2	6	5,000	50,000
4	12	2	5	5,000	25,000
5	12	2	5	5,000	25,000
6	16	3	5	5,000	33,333
7	12	2	6	5,000	30,000
8	12	2	4	5,000	20,000
9	16	4	5	5,000	33,333
10	16	4	6	5,000	40,000
rata-rata					33,667
Sistem Tradisional					
1	12	2	12	5,000	60,000
2	15	3	12	5,000	75,000
3	12	2	12	5,000	60,000
4	16	3	12	5,000	80,000
5	20	4	12	5,000	100,000
6	20	4	12	5,000	100,000
7	12	2	12	5,000	60,000
8	12	2	12	5,000	60,000
9	12	2	12	5,000	60,000
10	12	2	12	5,000	60,000
rata-rata					71,500

Lampiran.3 Biaya Tenaga Kerja Pembuatan Kandang di Kecamatan Tenggarang Bondowoso Tahun 2020											
No	luas kandang (M2)	jumlah sapi (Ekor)	luar keluarga			dalam keluarga			jumlah TK (HOK)	Upah (Rp/Orang)	Jumlah biaya (Rp)
			JTK (Orang)	HK (Hari)	JHK (HOK)	JTK (Orang)	HK (HK/org)	JHK (HOK)			
Sistem modern											
1	12	2	2	5	10	1	1	1	11	50,000	550,000
2	24	3	3	6	18	0	0	0	18	55,000	990,000
3	20	2	3	6	18	1	1	1	19	60,000	1,140,000
4	12	2	3	5	15	0	0	0	15	50,000	750,000
5	12	2	3	5	15	0	0	0	15	55,000	825,000
6	16	3	3	5	15	1	1	1	16	60,000	960,000
7	12	2	2	5	10	1	1	1	11	55,000	605,000
8	12	2	2	5	10	0	0	0	10	60,000	600,000
9	16	4	3	5	15	1	1	1	16	55,000	880,000
10	16	4	3	5	15	1	1	1	16	60,000	960,000
rata rata			2.7	5.2	14.1	0.6	0.6	0.6	14.7	56,000	826,000
Sistem Tradisional											
1	12	2	2	4	8	1	1	1	9	50,000	450,000
2	15	3	2	5	10	0	1	0	10	55,000	550,000
3	12	2	2	4	8	1	1	1	9	60,000	540,000
4	16	3	2	5	10	1	1	1	11	50,000	550,000
5	20	4	2	5	10	1	1	1	11	55,000	605,000
6	20	4	2	5	10	1	1	1	11	60,000	660,000
7	12	2	2	4	8	1	1	1	9	55,000	495,000
8	12	2	3	4	12	1	1	1	13	60,000	780,000
9	12	2	2	4	8	1	1	1	9	55,000	495,000
10	12	2	2	4	8	1	1	1	9	60,000	540,000
rata-rata			2.1	4.4	9.2	0.9	1	0.9	10.1	56,000	566,500

Lampiran 4. Biaya Pembuatan Kandang Modern di kecamatan Tenggarang Bondowoso Tahun 2020

No	jumlah sapi	luas Kandang (M ²)	Genteng		bambu			paku			anyaman bambu			total	
			Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	Jumlah	Harga		Biaya
			Unit	Rp/Unit		Unit	Rp/Unit		kg	Rp/Unit		Unit	Rp/Unit		
1	2	12	280	650	182,000	20	10,000	200,000	3	12,000	36,000	3	30,000	90,000	508,000
2	3	24	500	650	325,000	25	13,000	325,000	5	13,000	65,000	6	30,000	180,000	895,000
3	2	20	425	650	276,250	20	12,000	240,000	4	13,000	52,000	4	30,000	120,000	688,250
4	2	12	280	650	182,000	16	10,500	168,000	2	12,000	24,000	3	30,000	90,000	464,000
5	2	12	280	650	182,000	16	10,000	160,000	2	12,000	24,000	3	30,000	90,000	456,000
6	3	16	350	650	227,500	25	10,000	250,000	4	12,000	48,000	4	30,000	120,000	645,500
7	2	12	280	650	182,000	18	10,500	189,000	2	12,000	24,000	3	30,000	90,000	485,000
8	2	12	280	650	182,000	20	12,500	250,000	2	12,500	25,000	3	30,000	90,000	547,000
9	4	16	350	650	227,500	20	12,000	240,000	3	12,000	36,000	4	30,000	120,000	623,500
10	4	16	350	650	227,500	20	11,000	220,000	3	12,000	36,000	4	30,000	120,000	603,500
rata-rata					219,375			224,200			37,000			111,000	591,575

Sistem modern Tradisional

1	2	12	280	650	182,000	20	10,000	200,000	3	12,000	36,000	3	30,000	90,000	508,000
2	3	15	325	650	211,250	25	10,000	250,000	3	12,000	36,000	4	30,000	120,000	617,250
3	2	12	250	650	162,500	20	11,000	220,000	3	12,500	37,500	3	30,000	90,000	510,000
4	3	16	350	650	227,500	25	12,000	300,000	4	12,000	48,000	4	30,000	120,000	695,500
5	4	20	430	650	279,500	25	12,000	300,000	5	12,000	60,000	5	30,000	150,000	789,500
6	4	20	430	650	279,500	25	12,000	300,000	5	12,000	60,000	5	30,000	150,000	789,500
7	2	12	280	650	182,000	20	10,000	200,000	3	12,000	36,000	3	30,000	90,000	508,000
8	2	12	280	650	182,000	20	10,000	200,000	3	12,500	37,500	3	30,000	90,000	509,500
9	2	12	280	650	182,000	20	10,000	200,000	3	12,000	36,000	3	30,000	90,000	508,000
10	2	12	280	650	182,000	20	10,000	200,000	3	12,000	36,000	3	30,000	90,000	508,000
rata-rata					207,025			237,000			42,300			108,000	594,325

lampiran 5. Biaya Penyusutan Kandang Sapi Modern di kecamatan Tenggarang Bondowoso Tahun 2020

No	luas kandang (M ²)	Periode pemeliharaan (bulan)	Biaya TK RP	Bahan kandang (Rp)	Total Biaya	Umur Ekonomis (bulan)	penyusutan kandang (Rp/periode)
1	12	4	550,000	508,000	1,058,000	60	70,533
2	24	6	990,000	895,000	1,885,000	60	188,500
3	20	6	1,140,000	688,250	1,828,250	60	182,825
4	12	5	750,000	464,000	1,214,000	60	101,167
5	12	5	825,000	456,000	1,281,000	60	106,750
6	16	5	960,000	645,500	1,605,500	60	133,792
7	12	6	605,000	485,000	1,090,000	60	109,000
8	12	4	600,000	547,000	1,147,000	60	76,467
9	16	5	880,000	623,500	1,503,500	60	125,292
10	16	6	960,000	603,500	1,563,500	60	156,350
rata-rata			826,000	591,575	1,417,575	60	125,068

Sistem Tradisional

1	12	12	450,000	508,000	958,000	60	191,600
2	15	12	550,000	617,250	1,167,250	60	233,450
3	12	12	540,000	510,000	1,050,000	60	210,000
4	16	12	550,000	695,500	1,245,500	60	249,100
5	20	12	605,000	789,500	1,394,500	60	278,900
6	20	12	660,000	789,500	1,449,500	60	289,900
7	12	12	495,000	508,000	1,003,000	60	200,600
8	12	12	780,000	509,500	1,289,500	60	257,900
9	12	12	495,000	508,000	1,003,000	60	200,600
10	12	12	540,000	508,000	1,048,000	60	209,600
rata-rata			566,500	594,325	1,160,825	60	232,165

lampiran 6. Biaya Alat kandang sapi Modern di kecamatan Tenggarang Bondowoso Tahun 2020

No	jumlah sapi	Periode pemeliharaan (Bulan)	cangkul			timba			arit			tampar			total biaya	Umur ekonomis (Bulan)	Penyusutan Alat (Rp/periode)
			Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	Jumlah	Harga	Biaya			
			(Unit)	(Rp/Unit)		Unit	(Rp/Unit)		unit	Rp/Unit		Unit	(Rp/Unit)				
1	2	4	2	50,000	100,000	2	10,000	20,000	2	25,000	50,000	2	15,000	30,000	200,000	60	13,333
2	3	6	1	50,000	50,000	2	10,000	20,000	2	30,000	60,000	3	15,000	45,000	175,000	48	21,875
3	2	6	1	50,000	50,000	2	10,000	20,000	1	20,000	20,000	2	15,000	30,000	120,000	60	12,000
4	2	5	1	50,000	50,000	2	10,000	20,000	1	25,000	25,000	2	15,000	30,000	125,000	48	13,021
5	2	5	1	50,000	50,000	2	10,000	20,000	2	25,000	50,000	2	15,000	30,000	150,000	60	12,500
6	3	5	1	50,000	50,000	3	10,000	30,000	1	35,000	35,000	3	15,000	45,000	160,000	60	13,333
7	2	6	1	50,000	50,000	2	10,000	20,000	1	25,000	25,000	2	15,000	30,000	125,000	60	12,500
8	2	4	1	50,000	50,000	2	10,000	20,000	2	25,000	50,000	2	15,000	30,000	150,000	48	12,500
9	4	5	1	50,000	50,000	3	10,000	30,000	2	25,000	50,000	4	15,000	60,000	190,000	48	19,792
10	4	6	2	50,000	100,000	3	10,000	30,000	2	40,000	80,000	4	15,000	60,000	270,000	60	27,000
rata-rata					60,000			23,000			44,500			39,000	166,500		15,785

Sistem Tradisional																	
1	2	12	0	50,000	-	2	10,000	20,000	1	25,000	25,000	2	15,000	30,000	75,000	60	15,000
2	3	12	1	50,000	50,000	4	10,000	40,000	1	30,000	30,000	3	15,000	45,000	165,000	48	41,250
3	2	12	0	50,000	-	3	10,000	30,000	1	20,000	20,000	2	15,000	30,000	80,000	60	16,000
4	3	12	0	50,000	-	2	10,000	20,000	1	25,000	25,000	3	15,000	45,000	90,000	48	22,500
5	4	12	1	50,000	50,000	4	10,000	40,000	2	25,000	50,000	4	15,000	60,000	200,000	60	40,000
6	4	12	2	50,000	100,000	2	10,000	20,000	1	35,000	35,000	4	15,000	60,000	215,000	60	43,000
7	2	12	0	50,000	-	6	10,000	60,000	1	25,000	25,000	2	15,000	30,000	115,000	60	23,000
8	2	12	0	50,000	-	4	10,000	40,000	2	25,000	50,000	2	15,000	30,000	120,000	48	30,000
9	2	12	2	50,000	100,000	4	10,000	40,000	1	25,000	25,000	2	15,000	30,000	195,000	48	48,750
10	2	12	1	50,000	50,000	4	10,000	40,000	1	40,000	40,000	2	15,000	30,000	160,000	60	32,000
rata-rata					35,000			35,000			32,500			39,000	141,500		

lampiran.7 biaya pakan usahatan sapi potong modern di kecamatan tenggarang kabupaten bondowoso tahun 2020

No	jumlah sapi	Periode Pemeliharaan (bulan)	Jera mi			rum put				ampas tahu				ded ak				air tempe			Total Biaya pakan
			Jumlah	Harga	Biaya	Jumlah	jumlah	Harga	Biaya	Jumlah	Jumlah	Harga	Biaya	Jumlah	Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	
1	2	4	30	10,000	1,200,000	1	60	15,000	900,000	2	60	10,000	600,000	10	300	1,500	450,000	1	15,000	900,000	4,050,000
2	3	6	30	10,000	1,800,000	1.5	90	15,000	1,350,000	3	90	10,000	900,000	15	450	1,500	675,000	1	15,000	900,000	5,625,000
3	2	6	30	10,000	1,800,000	1	90	15,000	1,350,000	2	90	10,000	900,000	10	450	1,500	675,000	1	15,000	1,350,000	6,075,000
4	2	5	30	10,000	1,500,000	1	75	15,000	1,125,000	2	75	10,000	750,000	10	375	1,500	562,500	1	15,000	1,125,000	5,062,500
5	2	5	30	10,000	1,500,000	1	75	15,000	1,125,000	2	75	10,000	750,000	10	375	1,500	562,500	1	15,000	1,125,000	5,062,500
6	3	5	30	10,000	1,500,000	1.5	75	15,000	1,125,000	3	75	10,000	750,000	15	375	1,500	562,500	1.5	15,000	1,125,000	5,062,500
7	2	6	30	10,000	1,800,000	1	90	15,000	1,350,000	2	90	10,000	900,000	10	450	1,500	675,000	1	15,000	1,350,000	6,075,000
8	2	4	30	10,000	1,200,000	1	60	15,000	900,000	2	60	10,000	600,000	10	300	1,500	450,000	1	15,000	900,000	4,050,000
9	4	5	30	10,000	1,500,000	2	75	15,000	1,125,000	4	75	10,000	750,000	20	375	1,500	562,500	2	15,000	1,125,000	5,062,500
10	4	6	30	10,000	1,800,000	2	90	15,000	1,350,000	4	90	10,000	900,000	20	450	1,500	675,000	2	15,000	1,350,000	6,075,000
rata-rata					1,560,000				1,170,000				780,000				585,000				5,220,000

Sistem Tradisional

1	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000												9,000,000	
2	3	12	30	10,000	5,400,000	3	360	15,000	5,400,000													9,000,000
3	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000													9,000,000
4	3	12	30	10,000	5,400,000	3	360	15,000	5,400,000													9,000,000
5	4	12	30	10,000	5,400,000	4	360	15,000	5,400,000													9,000,000
6	4	12	30	10,000	5,400,000	4	360	15,000	5,400,000													9,000,000
7	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000													9,000,000
8	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000													9,000,000
9	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000													9,000,000
10	2	12	30	10,000	5,400,000	2	360	15,000	5,400,000													9,000,000
rata-rata					5,400,000																	9,000,000

Lampiran 8. Biaya obat modern di kecamatan tenggarang Bondowoso tahun 2020

No	jumlah sapi	Periode pemeliharaan (bulan)	obat cacing			vitamin			oxsy(antibiotik)			biaya obat (Rp/sapi/periode)
			Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	Jumlah	Harga	Biaya	
			unit/periode	Rp/Unit	(Rp/sapi/periode)	unit/periode	Rp/Unit		unit/periode/botol	Rp/Unit	(Rp/sapi/periode)	
1	2	4	1	5,000	5,000	1	12,000	12,000	0	-	-	17,000
2	3	6	1	5,000	5,000	-	-	-	0	-	-	5,000
3	2	6	1	5,000	5,000	1	12,000	12,000	1	27,000	27,000	44,000
4	3	5	1	5,000	5,000	-	-	-	0	-	-	5,000
5	4	5	1	5,000	5,000	-	-	-	0	-	-	5,000
6	4	5	1	5,000	5,000	1	12,000	12,000	0	-	-	17,000
7	2	6	1	5,000	5,000	-	-	-	0	-	-	5,000
8	2	4	1	5,000	5,000	-	-	-	0	-	-	5,000
9	2	5	1	5,000	5,000	1	12,000	12,000	0	-	-	17,000
10	2	6	1	5,000	5,000	1	12,000	12,000	0	-	-	17,000
rata-rata					5,000			6,000			2,700	13,700

lampiran 9. Tenaga Perawatan Sapi Potong Modern di Kecamatan Tenggarang Bondowoso tahun 2020

Moderen										
No	jumlah sapi	Periode pemeliharaan (Bulan)	luar keluarga			dalam keluarga			Upah (Rp/HKO)	Jumlah biaya TK (Rp/periode)
			JTK	HK	JHK	JTK	HK	JHK		
			(Orang)	(HK/org)	(HK)	(Orang)	(HK)	(HKO)		
1	2	4	0	0	0	1	120	120	10,000	1,200,000
2	3	6	0	0	0	1	180	180	10,000	1,800,000
3	2	6	0	0	0	1	180	180	10,000	1,800,000
4	2	5	0	0	0	1	150	150	10,000	1,500,000
5	2	5	0	0	0	1	150	150	10,000	1,500,000
6	3	5	0	0	0	1	150	150	10,000	1,500,000
7	2	6	0	0	0	1	180	180	10,000	1,800,000
8	2	4	0	0	0	1	120	120	10,000	1,200,000
9	4	5	0	0	0	1	150	150	10,000	1,500,000
10	4	6	0	0	0	1	180	180	10,000	1,800,000
Rata-rata										1,560,000
Tradisional										
1	2	12	0	0	0	1	360	360	10,000	3,600,000
2	3	12	0	0	0	1	360	360	10,000	3,600,000
3	2	12	0	0	0	1	360	360	10,000	3,600,000
4	3	12	0	0	0	1	360	360	10,000	3,600,000
5	4	12	0	0	0	1	360	360	10,000	3,600,000
6	4	12	0	0	0	1	360	360	10,000	3,600,000
7	2	12	0	0	0	1	360	360	10,000	3,600,000
8	2	12	0	0	0	1	360	360	10,000	3,600,000
9	2	12	0	0	0	1	360	360	10,000	3,600,000
10	2	12	0	0	0	1	360	360	10,000	3,600,000
Rata-rata										3,600,000

lampiran 10. Total Biaya Usahatani Sapi Potong di Kecamatan Tenggarang Bondowoso tahun 2020

No	jumlah sapi	Periode pemeliharaan	sewa lahan (Rp/periode)	Penyusutan kandang (Rp/periode)	penyusutan alat (Rp/periode)	TK perawatan (Rp/periode)	biaya pakan (Rp/periode/ekor)	biaya obat (Rp/periode/ekor)	biaya bibit (Rp/ekor)	Total biaya
	(ekor)	(bulan)								(Rp/Periode/ekor)
Sistem moderen										
1	2	4	20,000	70,533	13,333	1,200,000	4,050,000	17,000	14,000,000	19,370,867
2	3	6	60,000	188,500	21,875	1,800,000	5,625,000	5,000	14,500,000	22,200,375
3	2	6	50,000	182,825	12,000	1,800,000	6,075,000	44,000	15,000,000	23,163,825
4	2	5	25,000	101,167	13,021	1,500,000	5,062,500	5,000	14,000,000	20,706,688
5	2	5	25,000	106,750	12,500	1,500,000	5,062,500	5,000	15,000,000	21,711,750
6	3	5	33,333	133,792	13,333	1,500,000	5,062,500	17,000	15,000,000	21,759,958
7	2	6	30,000	109,000	12,500	1,800,000	6,075,000	5,000	14,500,000	22,531,500
8	2	4	20,000	76,467	12,500	1,200,000	4,050,000	5,000	13,000,000	18,363,967
9	4	5	33,333	125,292	19,792	1,500,000	5,062,500	17,000	14,000,000	20,757,917
10	4	6	40,000	156,350	27,000	1,800,000	6,075,000	17,000	16,000,000	24,115,350
rata-rata			33,667	125,068	15,785	1,560,000	5,220,000	13,700	14,500,000	21,468,220
Sistem tradisional										
1	2	12	60,000	191,600	15,000	3,600,000	9,000,000	-	9,000,000	21,866,600
2	3	12	75,000	233,450	41,250	3,600,000	9,000,000	-	13,000,000	25,949,700
3	2	12	60,000	210,000	16,000	3,600,000	9,000,000	-	12,000,000	24,886,000
4	3	12	80,000	249,100	22,500	3,600,000	9,000,000	-	14,000,000	26,951,600
5	4	12	100,000	278,900	40,000	3,600,000	9,000,000	-	15,000,000	28,018,900
6	4	12	100,000	289,900	43,000	3,600,000	9,000,000	-	14,700,000	27,732,900
7	2	12	60,000	200,600	23,000	3,600,000	9,000,000	-	11,000,000	23,883,600
8	2	12	60,000	257,900	30,000	3,600,000	9,000,000	-	9,700,000	22,647,900
9	2	12	60,000	200,600	48,750	3,600,000	9,000,000	-	12,000,000	24,909,350
10	2	12	60,000	209,600	32,000	3,600,000	9,000,000	-	13,400,000	26,301,600
rata-rata			71,500	232,165	31,150	3,600,000	9,000,000	-	12,380,000	25,314,815

lampiran 11. Biaya Tetap Usahatani Sapi Potong di Kecamatan Tenggarang Bondowoso tahun 2020

Modern							
No	jumlah sapi	Periode (bulan)	Sewa Lahan (Rp/periode)	Penyusutan (Rp/periode)		TK Perawatan (Rp/periode)	Jumlah (Rp/periode)
				Kandang	Alat		
1	2	4	20,000	70,533	13,333	1,200,000	1,303,867
2	3	6	60,000	188,500	21,875	1,800,000	2,070,375
3	2	6	50,000	182,825	12,000	1,800,000	2,044,825
4	2	5	25,000	101,167	13,021	1,500,000	1,639,188
5	2	5	25,000	106,750	12,500	1,500,000	1,644,250
6	3	5	33,333	133,792	13,333	1,500,000	1,680,458
7	2	6	30,000	109,000	12,500	1,800,000	1,951,500
8	2	4	20,000	76,467	12,500	1,200,000	1,308,967
9	4	5	33,333	125,292	19,792	1,500,000	1,678,417
10	4	6	40,000	156,350	27,000	1,800,000	2,023,350
rata-rata			33,667	125,068	15,785	1,560,000	1,734,520
Sistem tradisional							
1	2	12	60,000	191,600	15,000	3,600,000	3,866,600
2	3	12	75,000	233,450	41,250	3,600,000	3,949,700
3	2	12	60,000	210,000	16,000	3,600,000	3,886,000
4	3	12	80,000	249,100	22,500	3,600,000	3,951,600
5	4	12	100,000	278,900	40,000	3,600,000	4,018,900
6	4	12	100,000	289,900	43,000	3,600,000	4,032,900
7	2	12	60,000	200,600	23,000	3,600,000	3,883,600
8	2	12	60,000	257,900	30,000	3,600,000	3,947,900
9	2	12	60,000	200,600	48,750	3,600,000	3,909,350
10	2	12	60,000	209,600	32,000	3,600,000	3,901,600
Rata-rata			71,500	232,165	31,150	3,600,000	3,934,815

lampiran 12. Biaya Variabel Usahatani Sapi Potong di Kecamatan Tenggara Bondowoso tahun 2020

Modern						
No	Jumlah Sapi	Periode pemeliharaan	Bibit	Biaya pakan	Obat	JUMLAH
	(ekor)	(bulan)	(Rp/sapi)	(Rp/periode/sapi)	(Rp/periode/sapi)	(Rp/periode/sapi)
1	2	4	14,000,000	4,050,000	17,000	18,067,000
2	3	6	14,500,000	5,625,000	5,000	20,130,000
3	2	6	15,000,000	6,075,000	44,000	21,119,000
4	2	5	14,000,000	5,062,500	5,000	19,067,500
5	2	5	15,000,000	5,062,500	5,000	20,067,500
6	3	5	15,000,000	5,062,500	17,000	20,079,500
7	2	6	14,500,000	6,075,000	5,000	20,580,000
8	2	4	13,000,000	4,050,000	5,000	17,055,000
9	4	5	14,000,000	5,062,500	17,000	19,079,500
10	4	6	16,000,000	6,075,000	17,000	22,092,000
rata-rata			14,500,000	5,220,000	13,700	19,733,700
Tradisional						
1	2	12	9,000,000	9,000,000	-	18,000,000
2	3	12	13,000,000	9,000,000	-	22,000,000
3	2	12	12,000,000	9,000,000	-	21,000,000
4	3	12	14,000,000	9,000,000	-	23,000,000
5	4	12	15,000,000	9,000,000	-	24,000,000
6	4	12	14,700,000	9,000,000	-	23,700,000
7	2	12	11,000,000	9,000,000	-	20,000,000
8	2	12	9,700,000	9,000,000	-	18,700,000
9	2	12	12,000,000	9,000,000	-	21,000,000
10	2	12	13,400,000	9,000,000	-	22,400,000
rata-rata			12,380,000	9,000,000	-	21,380,000

lampiran 13. Penerimaan Usahatani Sapi Potong di Kecamatan Tenggarang Bondowoso tahun 2020

No	Luas kandang	Produksi	Harga jual	Waktu Pemeliharaan	Penerimaan		
	M ²	(ekor)	(Rp/ekor)	(Bulan)	(Rp/periode)	(Rp/ Tahun)	(Rp/tahun/ekor)
Modern							
1	12	2	19,000,000.00	4	38,000,000	114,000,000	57,000,000
2	24	3	21,000,000.00	6	63,000,000	126,000,000	42,000,000
3	20	2	22,200,000.00	6	44,400,000	88,800,000	44,400,000
4	12	2	18,800,000.00	5	37,600,000	90,240,000	45,120,000
5	12	2	21,000,000.00	5	42,000,000	100,800,000	50,400,000
6	16	3	20,750,000.00	5	62,250,000	149,400,000	49,800,000
7	12	2	21,400,000.00	6	42,800,000	85,600,000	42,800,000
8	12	2	18,500,000.00	4	37,000,000	111,000,000	55,500,000
9	16	4	19,500,000.00	5	78,000,000	187,200,000	46,800,000
10	16	4	23,500,000.00	6	94,000,000	188,000,000	47,000,000
rata-rata	2.6		20,565,000.00	5.20	53,905,000	124,104,000	48,082,000
Tradisional							
1	12	2	14,200,000	12	28,400,000	28,400,000	14,200,000
2	15	3	20,000,000	12	60,000,000	60,000,000	20,000,000
3	12	2	21,000,000	12	42,000,000	42,000,000	21,000,000
4	16	3	22,000,000	12	66,000,000	66,000,000	22,000,000
5	20	4	22,300,000	12	89,200,000	89,200,000	22,300,000
6	20	4	21,500,000	12	86,000,000	86,000,000	21,500,000
7	12	2	19,000,000	12	38,000,000	38,000,000	19,000,000
8	12	2	18,800,000	12	37,600,000	37,600,000	18,800,000
9	12	2	19,750,000	12	39,500,000	39,500,000	19,750,000
10	12	2	19,000,000	12	38,000,000	38,000,000	19,000,000
rata-rata			19,755,000	12	52,470,000	52,470,000	19,755,000

lampiran 14. Total Biaya dan Variabel Usahatani Sapi Potong di Kecamatan Tenggarang Bondowoso tahun 2020

No	jumlah sapi (ekor)	Luas Kandang	Biaya Tetap	Biaya Variabel	Total jumlah
		(m ²)	(Rp/periode)	(Rp/periode)	
Modern					
1	2	12	1,303,867	18,067,000	19,370,867
2	3	24	2,070,375	20,130,000	22,200,375
3	2	20	2,044,825	21,119,000	23,163,825
4	2	12	1,639,188	19,067,500	20,706,688
5	2	12	1,644,250	20,067,500	21,711,750
6	3	16	1,680,458	20,079,500	21,759,958
7	2	12	1,951,500	20,580,000	22,531,500
8	2	12	1,308,967	17,055,000	18,363,967
9	4	16	1,678,417	19,079,500	20,757,917
10	4	16	2,023,350	22,092,000	24,115,350
rata-rata			1,734,520	19,733,700	21,468,220
Tradisional					
1	2	12	3,866,600	18,000,000	21,866,600
2	3	15	3,949,700	22,000,000	25,949,700
3	2	12	3,886,000	21,000,000	24,886,000
4	3	16	3,951,600	23,000,000	26,951,600
5	4	20	4,018,900	24,000,000	28,018,900
6	4	20	4,032,900	23,700,000	27,732,900
7	2	12	3,883,600	20,000,000	23,883,600
8	2	12	3,947,900	18,700,000	22,647,900
9	2	12	3,909,350	21,000,000	24,909,350
10	2	12	3,901,600	22,400,000	26,301,600
rata-rata			3,934,815	21,380,000	25,314,815

No	Modern	Tradisional	t-Test: Two-Sample Assuming Equal Variances		
1	19,410,867	23,666,600			
2	22,260,375	27,749,700			
3	23,213,825	26,686,000	Mean	21510552.92	27114815
4	20,741,688	28,751,600	Variance	2.98393E+12	4.29049E+12
5	21,746,750	29,818,900	Observations	10	10
6	21,806,625	29,532,900	Pooled Variance	3.63721E+12	
7	22,561,500	25,683,600	Hypothesized Mean Difference	0	
8	18,403,967	24,447,900	df	18	
9	20,804,583	26,709,350	t Stat	-6.570816773	
10	24,155,350	28,101,600	P(T<=t) one-tail	1.78853E-06	
	21,510,553	27,114,815	t Critical one-tail	1.734063607	
			P(T<=t) two-tail	3.57707E-06	
			t Critical two-tail	2.10092204	

Table Total Biaya Usahatani Sapi Potong Di Kecamatan Tenggarang Kabupaten Bondowoso Menggunakan Uji-T Satu Arah

Peternak	Biaya	Perbedaan rata-rata	t-hitung	Signifikan
Peternak sapi modern	21,510,553	5,604,262	-6,570	0,000***
Peternak sapi tradisional	27,114,815			

P(T<=t) one-tail

1.78853E-06

artinya 0.00000001788532512
0,000 pada taraf uji 1%

lampiran 15. keuntungan sapi modern di kecamatan tenggarang bondowoso tahun 2019

No	Produksi	penerimaan	Total biaya	keuntungan	RC-Ratio
	(ekor)	(Rp/periode/ekor)	(Rp/Tahun/ekor)	(Rp/Tahun/ekor)	
Modern					
1	2	19,000,000	19,370,867	(370,867)	0.98
2	3	21,000,000	22,200,375	(1,200,375)	0.95
3	2	22,200,000	23,163,825	(963,825)	0.96
4	2	18,800,000	20,706,688	(1,906,688)	0.91
5	2	21,000,000	21,711,750	(711,750)	0.97
6	3	20,750,000	21,759,958	(1,009,958)	0.95
7	2	21,400,000	22,531,500	(1,131,500)	0.95
8	2	18,500,000	18,363,967	136,033	1.01
9	4	19,500,000	20,757,917	(1,257,917)	0.94
10	4	23,500,000	24,115,350	(615,350)	0.97
rata-rata	2.6	20,565,000	21,468,220	(903,220)	0.96
Tradisional					
1	2	14,200,000	21,866,600	(7,666,600)	0.65
2	3	20,000,000	25,949,700	(5,949,700)	0.77
3	2	21,000,000	24,886,000	(3,886,000)	0.84
4	3	22,000,000	26,951,600	(4,951,600)	0.82
5	4	22,300,000	28,018,000	(5,718,000)	0.80
6	4	21,500,000	27,732,900	(6,232,900)	0.78
7	2	19,000,000	23,883,600	(4,883,600)	0.80
8	2	18,800,000	22,647,900	(3,847,900)	0.83
9	2	19,750,000	24,909,350	(5,159,350)	0.79
10	2	19,000,000	26,301,600	(7,301,600)	0.72
rata-rata		19,755,000	25,314,815	(5,559,815)	0.78

t-Test: Two-Sample Assuming Equal Variances		
	<i>Modern</i>	<i>Tradisional</i>
Mean	-945553	-7359815
Variance	3.08718E+11	1.64695E+12
Observations	10	10
Pooled Variance	9.77836E+11	
Hypothesized Mean Difference	0	
df	18	
t Stat	14.50436052	
P(T<=t) one-tail	1.12933E-11	
t Critical one-tail	1.734063607	
P(T<=t) two-tail	2.25867E-11	
t Critical two-tail	2.10092204	

cara menghitung signfikan :
 P(T<=t) one-tail
 artinya
 0,000 pada taraf uji 1%

No	Keuntungan	
	Modern	Tradisional
1	(410,867)	(9,466,600)
2	(1,260,375)	(7,749,700)
3	(1,013,825)	(5,686,000)
4	(1,941,688)	(6,751,600)
5	(746,750)	(7,518,900)
6	(1,056,625)	(8,032,900)
7	(1,161,500)	(6,683,600)
8	96,033	(5,647,900)
9	(1,304,583)	(6,959,350)
10	(655,350)	(9,101,600)
	(945,553)	(7,359,815)

Tabel 6.9. Hasil Analisis Keuntungan Usahatani Sapi Potong di Kecamatan Tenggarang Kabupaten Bondowoso Menggunakan Uji-t Satu Arah

Peternak	Keuntungan	Perbedaan rata-rata	t-hitung	Signifikan
Peternaksapi moderen	(945,553)	6,414,26 2	14,50 4	0.000***
Peternak sapi tradisional	(7,359,815)			

Keterangan: *** = signifikan pada taraf uji 1%

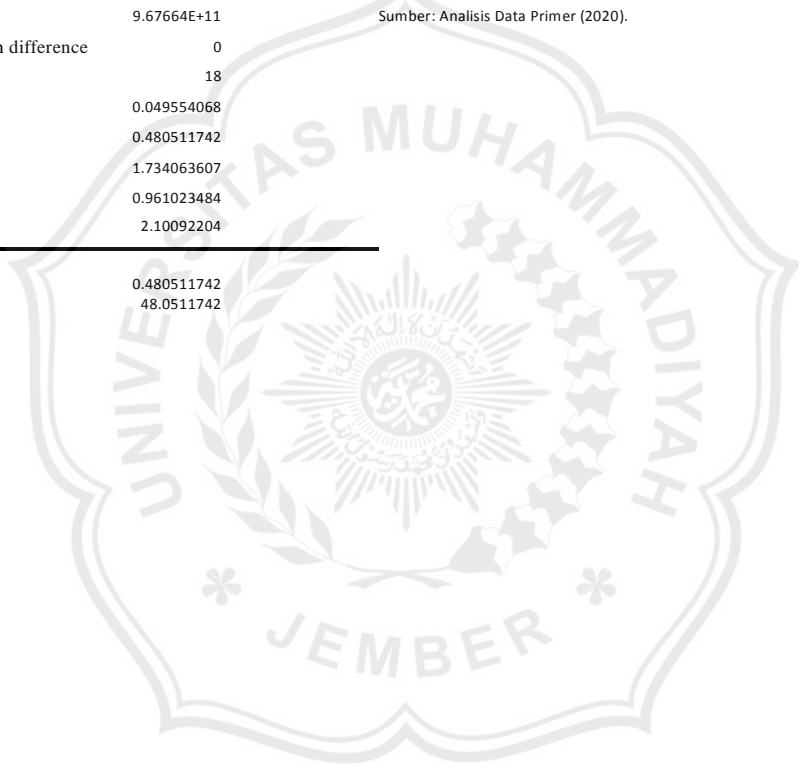
Perbedaan rata-rata didapat dari hasil selisih perhitungan keuntungan modern dikurangi keuntungan tradisional
 $(945,553) - (7,359,815) = 6,414,262$

ampiran 15. Pendapatan usahatani sapi potong di kecamatan tenggarang bondowoso tahun 2019

No	pekerjaan utaman	Jumlah Sapi	Periode pemeliharaan	keuntungan	Pakan rumput	perawatan	Penyusutan Kandang	Penyusutan alat	Biaya non tunai	pendapatan
		(ekor)	(bulan)	(Rp/Tahun/ekor)	(Rp/periode/sapi)	(Rp/periode/sapi)				(Rp/periode/sapi)
moderen										
1	petani	2	4	(370,867)	900,000	1,200,000	70,533	13,333	2,183,867	1,813,000
2	pegawai	3	6	(1,200,375)	1,350,000	1,800,000	188,500	21,875	3,360,375	2,160,000
3	petani	2	6	(963,825)	1,350,000	1,800,000	182,825	12,000	3,344,825	2,381,000
4	petani	2	5	(1,906,688)	1,125,000	1,500,000	101,167	13,021	2,739,188	832,500
5	petani	2	5	(711,750)	1,125,000	1,500,000	106,750	12,500	2,744,250	2,032,500
6	petani	3	5	(1,009,958)	1,125,000	1,500,000	133,792	13,333	2,772,125	1,762,167
7	petani	2	6	(1,131,500)	1,350,000	1,800,000	109,000	12,500	3,271,500	2,140,000
8	petani	2	4	136,033	900,000	1,200,000	76,467	12,500	2,188,967	2,325,000
9	petani	4	5	(1,257,917)	1,125,000	1,500,000	125,292	19,792	2,770,083	1,512,167
10	petani	4	6	(615,350)	1,350,000	1,800,000	156,350	27,000	3,333,350	2,718,000
rata-rata		2.6	5.2	(903,220)	1,170,000	1,560,000	125,068	15,785	2,870,853	1,967,633
Tradisional										
1	petani	2	12	(7,666,600)	5,400,000	3,600,000	191,600	15,000	9,206,600	1,540,000
2	petani	3	12	(5,949,700)	5,400,000	3,600,000	233,450	41,250	9,274,700	3,325,000
3	petani	2	12	(3,886,000)	5,400,000	3,600,000	210,000	16,000	9,226,000	5,340,000
4	petani	3	12	(4,951,600)	5,400,000	3,600,000	249,100	22,500	9,271,600	4,320,000
5	petani	4	12	(5,718,900)	5,400,000	3,600,000	278,900	40,000	9,318,900	3,600,000
6	petani	4	12	(6,232,900)	5,400,000	3,600,000	289,900	43,000	9,332,900	3,100,000
7	petani	2	12	(4,883,600)	5,400,000	3,600,000	200,600	23,000	9,223,600	4,340,000
8	petani	2	12	(3,847,900)	5,400,000	3,600,000	257,900	30,000	9,287,900	5,440,000
9	petani	2	12	(5,159,350)	5,400,000	3,600,000	200,600	48,750	9,249,350	4,090,000
10	petani	2	12	(7,301,600)	5,400,000	3,600,000	209,600	32,000	9,241,600	1,940,000
rata-rata	0	2.6	12	(5,559,815)	5,400,000	3,600,000	232,165	31,150	9,263,315	3,703,500

TABEL 6.10. HASIL ANALISIS PENDAPATAN USAHATANI SAPI POTONG DI KECAMATAN TENGGARANG KABUPATEN BONDOWOSO

Pendapatan		t-Test: Two-Sample Assuming Equal Variances							
No	Modern	Tradisional	Modern	Tradisional	Peternak	Pendapatan (Rp/periode/ekor)	Perbedaan rata-rata (Rp/periode/ekor)	t-hitung	Signifikan
1	1,773,000	(260,000)							
2	2,100,000	1,525,000	Mean	1925300	1903500	Peternak sapi moderen	1,925,300		
3	2,331,000	3,540,000	Variance	2.7566E+11	1.65967E+12	Peternak sapi Tradisional	1,903,500	21,800	0,049
4	797,500	2,520,000	Observatio	10	10	Keterangan: ns = tidak signifikan			
5	1,997,500	1,800,000	Pooled Variance	9.67664E+11		Sumber: Analisis Data Primer (2020).			
6	1,715,500	1,300,000	Hypothesized mean difference	0					
7	2,110,000	2,540,000	df	18					
8	2,285,000	3,640,000	t Stat	0.049554068					
9	1,465,500	2,290,000	P(T<=t) on	0.480511742					
10	2,678,000	140,000	t Critical on	1.734063607					
	1,925,300	1,903,500	P(T<=t) tw	0.961023484					
			t Critical tw	2.10092204					
			P(T<=t) on signifikan	0.480511742	48.0511742				



landasan 16. Rc-Ratio usaha tani sapi potong di kabupaten Bondowoso tahun 2019

Moderen				
No	Produksi	penerimaan	Total biaya	Rc-Ratio
	(ekor)	(Rp/Tahun/ekor)	(Rp/Tahun)	(Rp/Tahun)
Modern				
1	2	19,000,000	19,370,867	0.981
2	3	21,000,000	22,200,375	0.946
3	2	22,200,000	23,163,825	0.958
4	2	18,800,000	20,706,688	0.908
5	2	21,000,000	21,711,750	0.967
6	3	20,750,000	21,759,958	0.954
7	2	21,400,000	22,531,500	0.950
8	2	18,500,000	18,363,967	1.007
9	4	19,500,000	20,757,917	0.939
10	4	23,500,000	24,115,350	0.974
rata-rata		20,565,000	21,468,220	0.958
Tradisional				
No	Produksi	penerimaan	Total biaya	Rc-Ratio
	(ekor)	(Rp/Tahun)	(Rp/Tahun)	(Rp/Tahun)
1	2	14,200,000	21,866,600	0.649
2	3	20,000,000	25,949,700	0.771
3	2	21,000,000	24,886,000	0.844
4	3	22,000,000	26,951,600	0.816
5	4	22,300,000	28,018,900	0.796
6	4	21,500,000	27,732,900	0,775
7	2	19,000,000	23,883,600	0.796
8	2	18,800,000	22,647,900	0.830
9	2	19,750,000	24,909,350	0,793
10	2	19,000,000	26,301,000	0.722
rata-rata		19,755,000	25,314,815	0.779

t-Test: Two-Sample Assuming Equal Variances

No	Efisiensi			Modern	Tradisional
	Modern	Tradisional		Modern	Tradisional
1	0.979	0.600	Mean	0.956603399	0.727299738
2	0.943	0.721	Variance	0.000707177	0.002924542
3	0.956	0.787	Observations	10	10
4	0.906	0.765	Pooled Variance	0.001815859	
5	0.966	0.748	Hypothesized Mean Difference	0	
6	0.952	0.728	df	18	
7	0.949	0.740	t Stat	12.03247229	
8	1.005	0.769	P(T<=t) one-tail	2.4158E-10	
9	0.937	0.739	t Critical one-tail	1.734063607	
10	0.973	0.676	P(T<=t) two-tail	4.83161E-10	
	0.957	0.727	t Critical two-tail	2.10092204	

Tabel 6.12. Efisiensi Biaya Usahatani Sapi Potong di Kecamatan Tenggarang Kabupaten Bondowoso Menggunakan Uji-t Satu Arah

Peternak	Efisiensi	Perbedaan rata-rata	t-hitung	Signifikan
Peternak sapi modern	0.957	0.230	12,032	0,000***
Peternak sapi tradisional	0.727			

P(T<=t) one-tail 2.4158E-10 artinya 0.0000000000241580
0,000 pada taraf uji 1%

lampiran 17. harga sapi usaha tani sapi potong di kabupaten Bondowoso tahun 2019

Moderen			
No	Produksi	waktu pemeliharaan	harga sapi (Rp/ekor)
	(ekor)		
1	2	4	14,000,000
2	3	6	14,500,000
3	2	6	15,000,000
4	3	5	14,000,000
5	4	5	15,000,000
6	4	5	15,000,000
7	2	6	14,500,000
8	2	4	13,000,000
9	2	5	14,000,000
10	2	6	16,000,000
rata-rata		5	14,500,000
Tradisional			
1	2	12	9,000,000
2	3	12	13,000,000
3	2	12	12,000,000
4	3	12	14,000,000
5	4	12	15,000,000
6	4	12	14,700,000
7	2	12	11,000,000
8	2	12	9,700,000
9	2	12	12,000,000
10	2	12	13,400,000
rata-rata			12,380,000

PETA LOKASI



PETERNAK MODEREN



MEMBERI PAKAN



MEMBERI OBAT CACING KEPADA SAPI

PETERNAK TRADISIONAL



PROSES KAWIN ALAMI



MEMBERI PAKAN