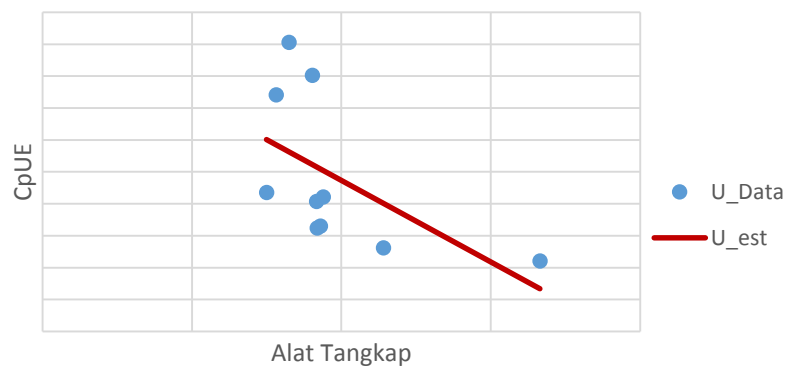


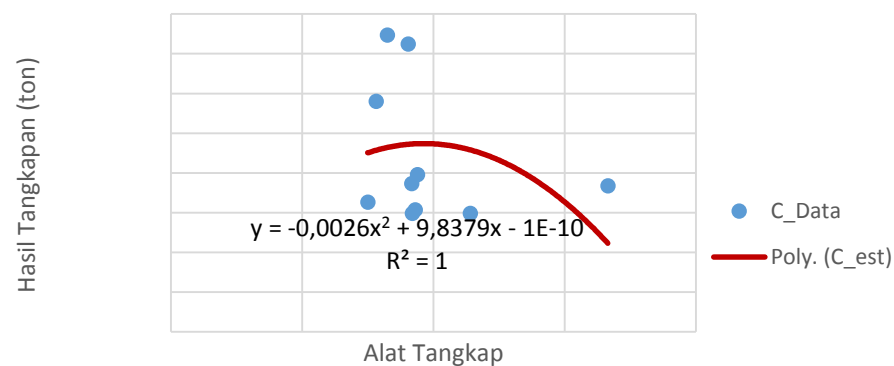
Lampiran 6. Perhitungan Model Surplus Produksi (*Equilibrium State Schaefer*) Ikan Layang

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	U_est	C_est
	(unit)	(ton)	(ton/unit)		
2006	1500	6.526,68	4,35	6,01	9012,50
2005	1564	11.599,08	7,42	5,85	9142,34
2003	1650	14.945,46	9,06	5,63	9283,47
2004	1807	14.490,72	8,02	5,23	9441,97
2009	1834	7.461,06	4,07	5,16	9456,96
2010	1838	5960,1	3,24	5,15	9458,84
2007	1861	6.147,84	3,30	5,09	9467,89
2008	1879	7.914,78	4,21	5,04	9473,02
2011	2282	5961	2,61	4,01	9157,95
2012	3330	7.346,28	2,21	1,34	4458,05

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



a	9,837904934	
b	-0,002552591	
E_MSY	$a/-2b$	1927,04269
C_MSY	$a^2/-4b$	9479,031393
U_MSY	C_MSY/E_MSY	4,918952467
JTB	$80\% \cdot C_MSY$	7583,225115
T.Pemanfaatan	C.Th terakhir/CMSY	78%
T.Pengupayaan	E.th terakhir/EMSY	173%

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,558227322
R Square	0,311617743
Adjusted R Square	0,225569961
Standard Error	2,126966135
Observations	10

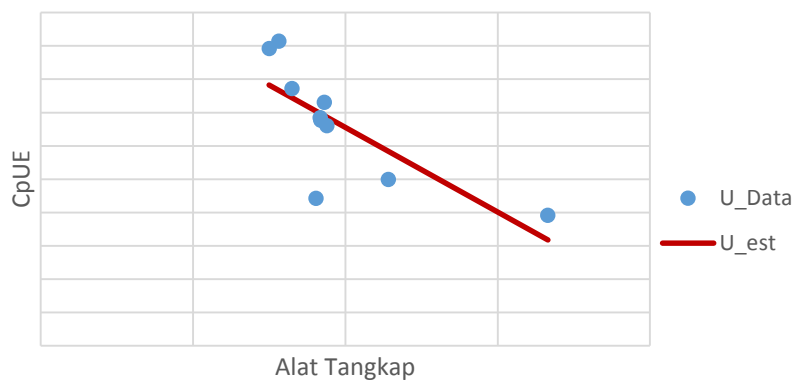
ANOVA					
	df	SS	MS	F	Significance F
Regression	1	16,38338541	16,38338541	3,62145	0,093533106
Residual	8	36,19187951	4,523984938		
Total	9	52,57526492			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	9,837904934	2,706315914	3,635165017	0,006635	3,597129246	16,0787	3,59713	16,0787
X Variable 1	-0,002552591	0,001341344	-1,903010782	0,093533	-0,005645735	0,00054	-0,0056	0,00054

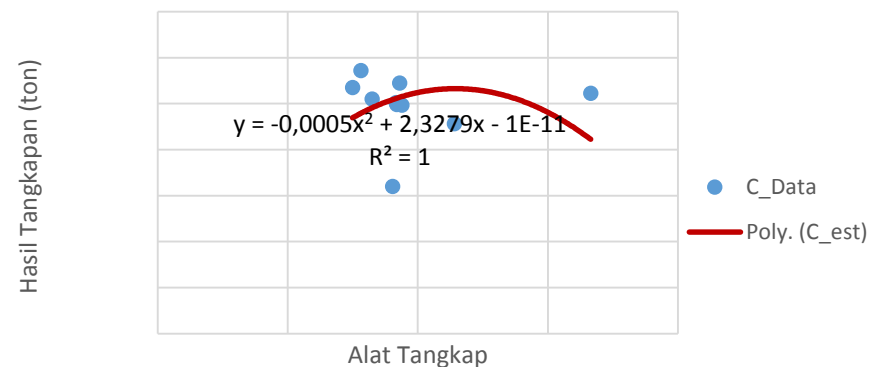
Lampiran 7. Perhitungan Model Surplus Produksi (*Equilibrium State Schaefer*) Ikan Selar

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	U_est	C_est
	(unit)	(ton)	(ton/unit)		
2006	1500	2.677,38	1,79	1,57	2347,14
2005	1564	2.860,08	1,83	1,53	2396,67
2003	1650	2.550,12	1,55	1,49	2456,56
2004	1807	1.599,18	0,89	1,41	2545,61
2009	1834	2.512,38	1,37	1,40	2558,72
2010	1838	2.490,06	1,35	1,39	2560,58
2007	1861	2.722,86	1,46	1,38	2570,79
2008	1879	2.484,18	1,32	1,37	2578,27
2011	2282	2.280,72	1,00	1,17	2663,75
2012	3330	2.613,72	0,79	0,63	2112,61

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



a	2,327913622	
b	-0,000508601	
E_MSY	$a/-2b$	2288,547618
C_MSY	$a^2/-4b$	2663,770587
U_MSY	C_MSY/E_MSY	1,163956811
JTB	$80\% \cdot C_MSY$	2131,01647
T.Pemanfaatan	C.Th terakhir/CMSY	98%
T.Pengupayaan	E.th terakhir/EMSY	145%

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,759845795
R Square	0,577365632
Adjusted R Square	0,524536336
Standard Error	0,243954815
Observations	10

ANOVA

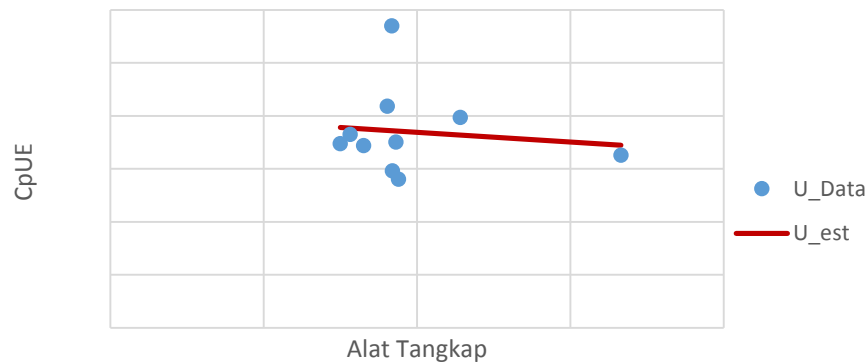
	df	SS	MS	F	Significance F
Regression	1	0,650421506	0,65042151	10,92889	0,010764
Residual	8	0,476111613	0,05951395		
Total	9	1,126533119			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	2,327913622	0,310404001	7,49962506	6,93E-05	1,612121	3,04371	1,61212	3,04371
X Variable 1	-0,000508601	0,000153847	-3,3058874	0,010764	-0,00086	-0,0002	-0,0009	-0,0002

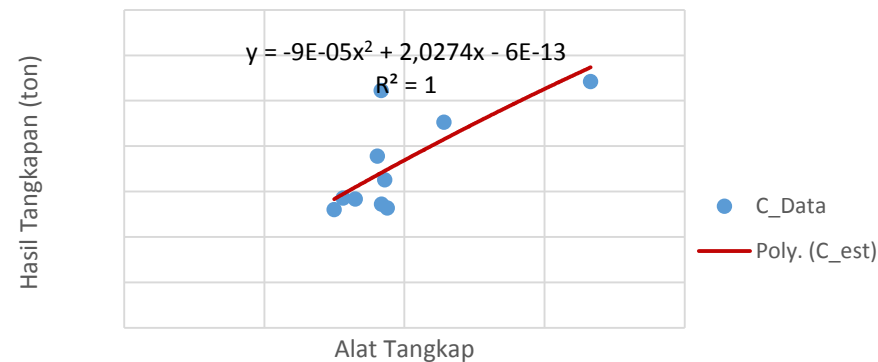
Lampiran 8. Perhitungan Model Surplus Produksi (*Equilibrium State Schaefer*) Ikan Teri

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	U_est	C_est
	(unit)	(ton)	(ton/unit)		
2006	1500	2606,4	1,74	1,89	2834,21
2005	1564	2856,3	1,83	1,88	2946,59
2003	1650	2838,3	1,72	1,88	3096,32
2004	1807	3780,96	2,09	1,86	3363,71
2009	1834	5229,18	2,85	1,86	3410,33
2010	1838	2723,82	1,48	1,86	3417,17
2007	1861	3264,48	1,75	1,86	3455,78
2008	1879	2638,44	1,40	1,86	3485,38
2011	2282	4531,2	1,99	1,82	4149,19
2012	3330	5424,84	1,63	1,72	5735,23

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



a	2,027357151	
b	-9,15534E-05	
E_MSY	$a/-2b$	11071,98956
C_MSY	$a^2/-4b$	9,40752E-05
U_MSY	C_MSY/E_MSY	8,49668E-09
JTB	80%*C_MSY	7,52602E-05
T.Pemanfaatan	C.Th terakhir/CMSY	5766%
T.Pengupayaan	E.th terakhir/EMSY	30%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,118472602
R Square	0,014035758
Adjusted R Square	-0,109209773
Standard Error	0,43019246
Observations	10

ANOVA

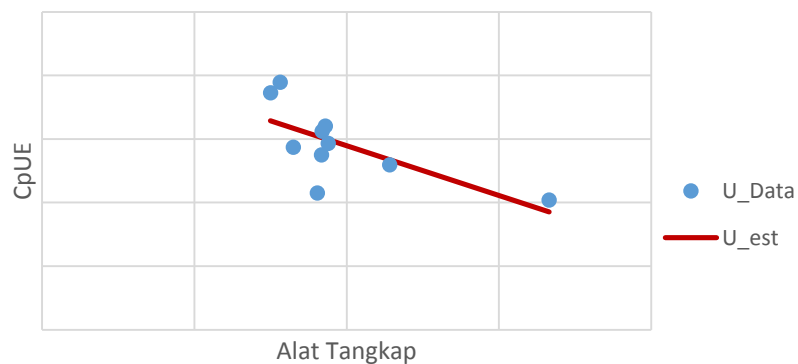
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,021076101	0,0210761	0,1138845	0,7444481
Residual	8	1,480524423	0,18506555		
Total	9	1,501600524			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	2,027357151	0,547369646	3,70381727	0,0060095	0,7651205	3,28959	0,76512	3,28959
X Variable 1	-9,15534E-05	0,000271295	-0,3374678	0,7444481	-0,000717	0,00053	-0,0007	0,00053

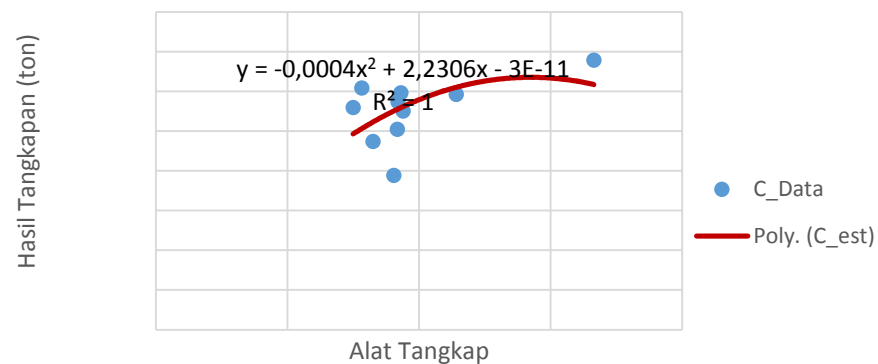
Lampiran 9. Perhitungan Model Surplus Produksi (*Equilibrium State Schaefer*) Ikan Tembang

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	U_est	C_est
	(unit)	(ton)	(ton/unit)		
2006	1500	2.797,92	1,87	1,64	2464,32
2005	1564	3.044,94	1,95	1,62	2530,65
2003	1650	2.371,44	1,44	1,58	2614,62
2004	1807	1.944,72	1,08	1,52	2751,67
2009	1834	2.522,34	1,38	1,51	2773,82
2010	1838	2.872,14	1,56	1,51	2777,03
2007	1861	2.984,04	1,60	1,50	2794,91
2008	1879	2.754,42	1,47	1,49	2808,37
2011	2282	2.964,36	1,30	1,34	3050,86
2012	3330	3.395,64	1,02	0,93	3085,71

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



a	2,230610292	
b	-0,000391599	
E_MSY	$a/-2b$	2848,082749
C_MSY	$a^2/-4b$	3176,481346
U_MSY	C_MSY/E_MSY	1,115305146
JTB	80%*C_MSY	2541,185077
T.Pemanfaatan	C.Th terakhir/CMSY	107%
T.Pengupayaan	E.th terakhir/EMSY	117%

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,691145778
R Square	0,477682486
Adjusted R Square	0,412392797
Standard Error	0,229569547
Observations	10

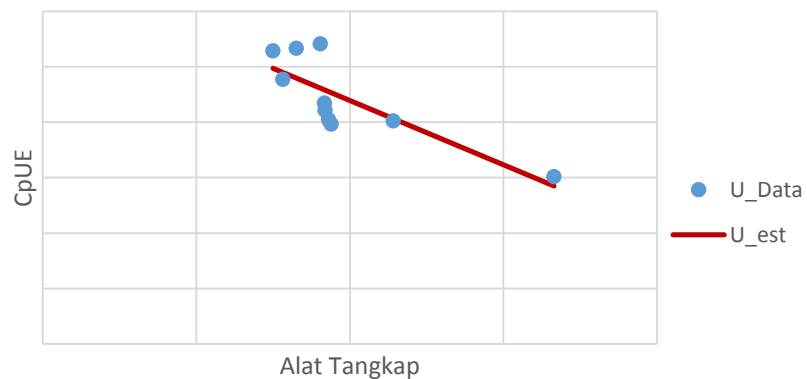
ANOVA					
	df	SS	MS	F	Significance F
Regression	1	0,38558779	0,38558779	7,316354	0,02687
Residual	8	0,421617417	0,05270218		
Total	9	0,807205207			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	2,230610292	0,292100429	7,63644991	6,09E-05	1,557025	2,904195088	1,55703	2,904195088
X Variable 1	-0,000391599	0,000144775	-2,7048759	0,02687	-0,00073	-5,77467E-05	-0,00073	-5,77467E-05

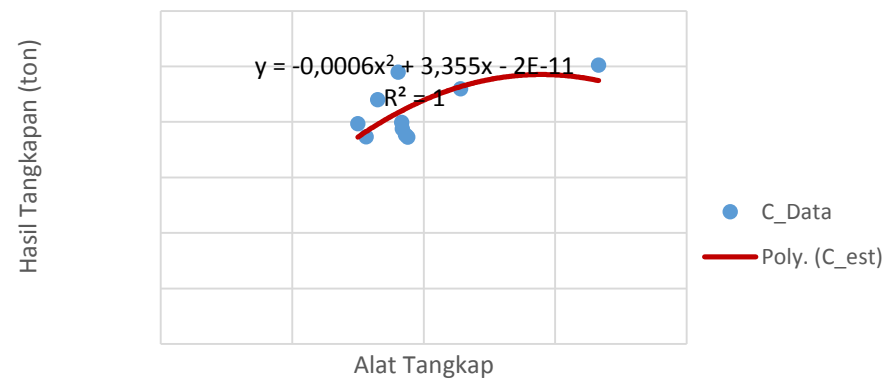
Lampiran 10. Perhitungan Model Surplus Produksi (*Equilibrium State Schaefer*) Ikan Kembung

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	U_est	C_est
	(unit)	(ton)	(ton/unit)		
2006	1500	3.966,42	2,65	2,49	3727,48
2005	1564	3.732,96	2,39	2,45	3829,08
2003	1650	4.401,06	2,67	2,40	3957,96
2004	1807	4.894,38	2,71	2,31	4169,14
2009	1834	3.989,28	2,18	2,29	4203,39
2010	1838	3.874,74	2,11	2,29	4208,35
2007	1861	3.767,82	2,02	2,28	4236,03
2008	1879	3.724,86	1,98	2,27	4256,88
2011	2282	4.594,38	2,01	2,03	4637,23
2012	3330	5.024,04	1,51	1,42	4744,39

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



a	3,355025755	
b	-0,000579685	
E_MSY	$a/-2b$	2893,833148
C_MSY	$a^2/-4b$	4854,442371
U_MSY	C_MSY/E_MSY	1,677512877
JTB	80%*C_MSY	3883,553897
T.Pemanfaatan	C.Th terakhir/CMSY	103%
T.Pengupayaan	E.th terakhir/EMSY	115%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,804697136
R Square	0,64753748
Adjusted R Square	0,603479666
Standard Error	0,239768392
Observations	10

ANOVA

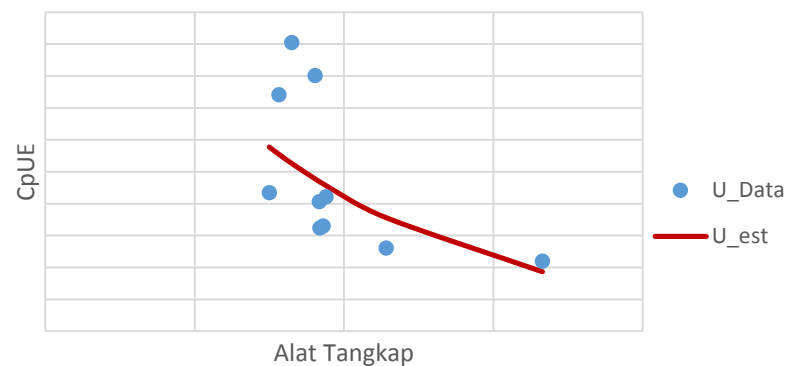
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,8449399	0,8449399	14,69745	0,004991
Residual	8	0,459911055	0,0574889		
Total	9	1,304850955			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	3,355025755	0,305077267	10,997298	4,16E-06	2,651516	4,05854	2,65152	4,05854
X Variable 1	-0,000579685	0,000151207	-3,833725	0,004991	-0,00093	-0,0002	-0,0009	-0,0002

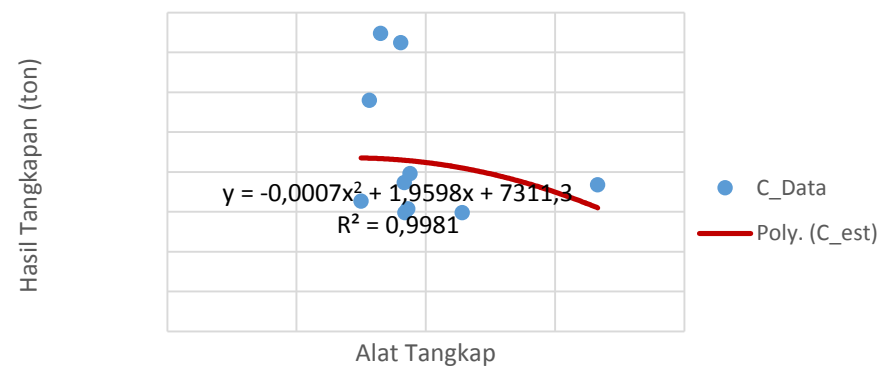
Lampiran 11. Perhitungan Model Surplus Produksi (*Equilibrium State Fox*) Ikan Layang

Tahun	Alat Tangkap (E) (unit)	Hasil Tangkapan (C) (ton)	CpUE (U) (ton/unit)	Ln U	U_est	C_est
2006	1500	6.526,68	4,35	1,47	5,77	8656,72
2005	1564	11.599,08	7,42	2,00	5,55	8676,61
2003	1650	14.945,46	9,06	2,20	5,26	8680,45
2004	1807	14.490,72	8,02	2,08	4,78	8628,61
2009	1834	7.461,06	4,07	1,40	4,70	8612,49
2010	1838	5960,1	3,24	1,18	4,68	8609,96
2007	1861	6.147,84	3,30	1,20	4,62	8594,90
2008	1879	7.914,78	4,21	1,44	4,57	8582,46
2011	2282	5961	2,61	0,96	3,56	8127,69
2012	3330	7.346,28	2,21	0,79	1,87	6211,28

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



c	2,678832429	
d	-0,000617292	
E_MSY	-1/d	1619,978899
C_MSY	(-1/d)*EXP(c-1)	8681,944748
U_MSY	Exp(c-1)	5,359294959
JTB	80%*C_MSY	6945,555799
T.Pemanfaatan	C.Th terakhir/CMSY	85%
T.Pengupayaan	E.Th terakhir/EMSY	206%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,677861968
R Square	0,459496848
Adjusted R Square	0,391933954
Standard Error	0,375339291
Observations	10

ANOVA

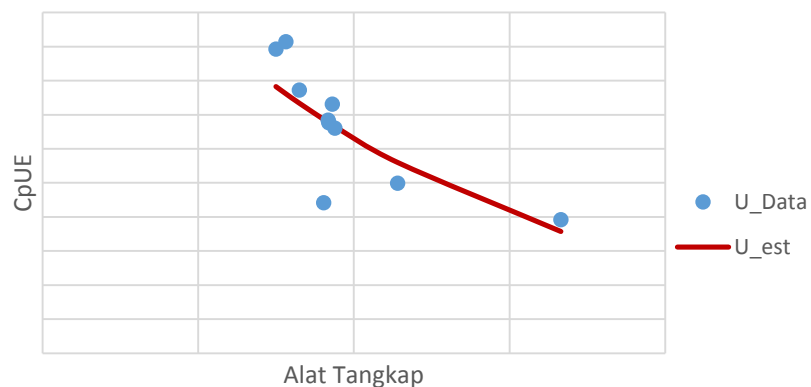
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,958125397	0,958125397	6,801024	0,031233
Residual	8	1,12703667	0,140879584		
Total	9	2,085162067			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	2,678832429	0,477575398	5,609234567	0,000505	1,577542	3,7801233	1,577542	3,780123271
X Variable 1	-0,000617292	0,000236703	-2,607877253	0,031233	-0,001163	-7,145E-5	-0,001163	-7,14542E-05

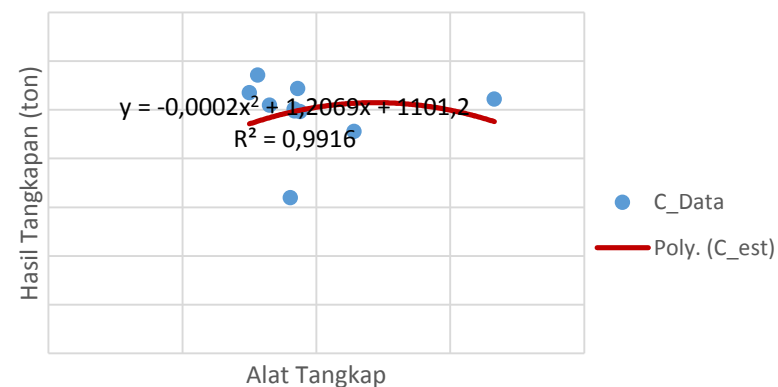
Lampiran 12. Perhitungan Model Surplus Produksi (*Equilibrium State Fox*) Ikan Selar

Tahun	Alat Tangkap (E) (unit)	Hasil Tangkapan (C) (ton)	CpUE (U) (ton/unit)	Ln U	U_est	C_est
2006	1500	2.677,38	1,79	0,58	1,57	2346,92
2005	1564	2.860,08	1,83	0,60	1,52	2381,11
2003	1650	2.550,12	1,55	0,44	1,47	2421,42
2004	1807	1.599,18	0,89	-0,12	1,37	2479,18
2009	1834	2.512,38	1,37	0,31	1,36	2487,46
2010	1838	2.490,06	1,35	0,30	1,35	2488,64
2007	1861	2.722,86	1,46	0,38	1,34	2495,05
2008	1879	2.484,18	1,32	0,28	1,33	2499,73
2011	2282	2.280,72	1,00	0,00	1,12	2554,88
2012	3330	2.613,72	0,79	-0,24	0,71	2380,49

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



c	1,08994724	
d	-0,00042813	
E_MSY	-1/d	2335,738458
C_MSY	(-1/d)*EXP(c-1)	2555,570119
U_MSY	Exp(c-1)	1,094116557
JTB	80%*C_MSY	2044,456095
T.Pemanfaatan	C.Th terakhir/CMSY	102%
T.Pengupayaan	E.Th terakhir/EMSY	143%

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,79125791
R Square	0,626089081
Adjusted R Square	0,579350216
Standard Error	0,185488649
Observations	10

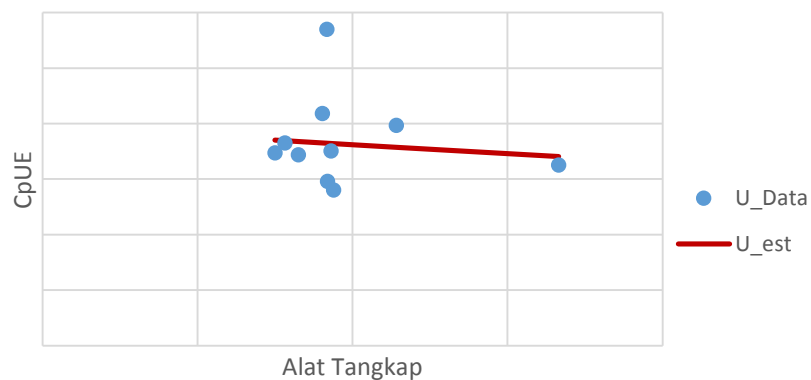
ANOVA					
	df	SS	MS	F	Significance F
Regression	1	0,460885075	0,4608850	13,39547	0,006401
Residual	8	0,275248311	0,0344060		
Total	9	0,736133386			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	1,08994724	0,236012635	4,6181732	0,00171	0,545701	1,6341933	0,5457	1,63419
X Variable 1	-0,00042813	0,000116976	-3,6599823	0,00640	-0,000698	-0,000158	-0,0007	-0,0002

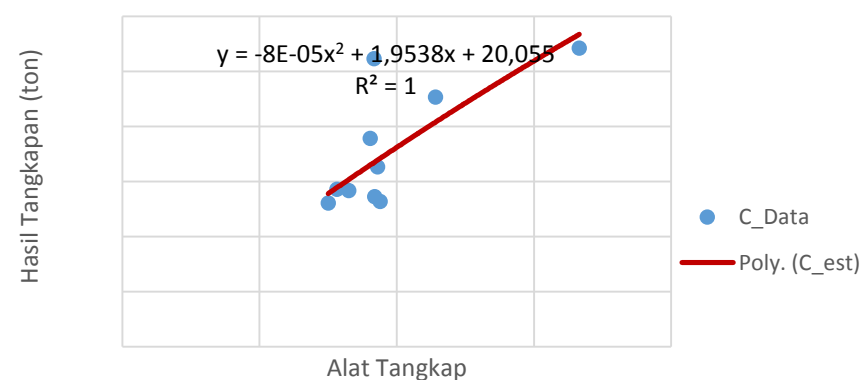
Lampiran 13. Perhitungan Model Surplus Produksi (*Equilibrium State Fox*) Ikan Teri

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	Ln U	U_est	C_est
	(unit)	(ton)	(ton/unit)			
2006	1500	2606,4	1,74	0,55	1,85	2776,44
2005	1564	2856,3	1,83	0,60	1,85	2887,08
2003	1650	2838,3	1,72	0,54	1,84	3034,60
2004	1807	3780,96	2,09	0,74	1,83	3298,42
2009	1834	5229,18	2,85	1,05	1,82	3344,47
2010	1838	2723,82	1,48	0,39	1,82	3351,23
2007	1861	3264,48	1,75	0,56	1,82	3389,38
2008	1879	2638,44	1,40	0,34	1,82	3418,63
2011	2282	4531,2	1,99	0,69	1,79	4076,75
2012	3330	5424,84	1,63	0,49	1,70	5671,57

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



c	0,684351033	
d	-4,55682E-05	
E_MSY	-1/d	21945,12592
C_MSY	(-1/d)*EXP(c-1)	16004,91871
U_MSY	Exp(c-1)	0,729315419
JTB	80%*C_MSY	12803,93496
T.Pemanfaatan	C.Th terakhir/CMSY	34%
T.Pengupayaan	E.Th terakhir/EMSY	15%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,12096104
R Square	0,014631573
Adjusted R Square	-0,10853948
Standard Error	0,209648265
Observations	10

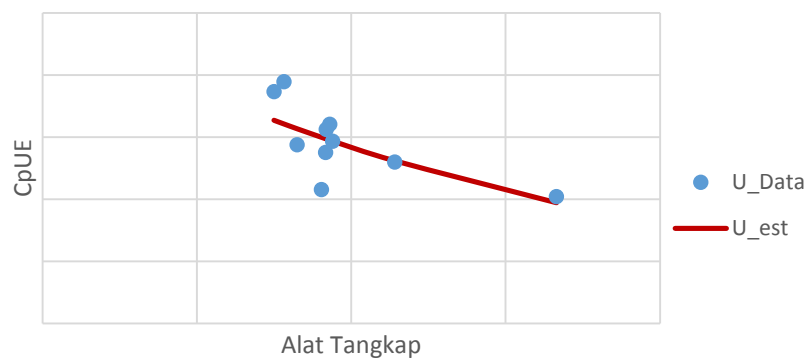
<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,005221135	0,00522113	0,1187907	0,7392354
Residual	8	0,351619159	0,04395239		
Total	9	0,356840294			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	0,684351033	0,266752924	2,56548653	0,033361	0,0692177	1,2994844	0,06922	1,29948
X Variable 1	-4,55682E-05	0,000132212	-0,3446602	0,7392354	-0,00035	0,0002593	-0,0004	0,00026

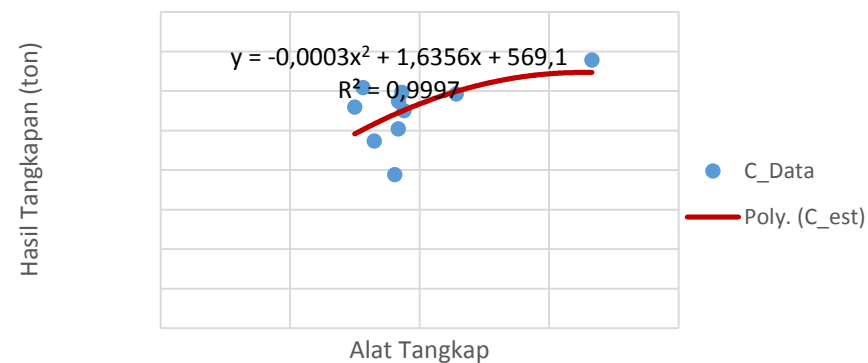
Lampiran 14. Perhitungan Model Surplus Produksi (*Equilibrium State Fox*) Ikan Tembang

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	Ln U	U_est	C_est
	(unit)	(ton)	(ton/unit)			
2006	1500	2.797,92	1,87	0,62	1,64	2453,02
2005	1564	3.044,94	1,95	0,67	1,61	2511,85
2003	1650	2.371,44	1,44	0,36	1,57	2586,25
2004	1807	1.944,72	1,08	0,07	1,50	2708,03
2009	1834	2.522,34	1,38	0,32	1,49	2727,84
2010	1838	2.872,14	1,56	0,45	1,49	2730,71
2007	1861	2.984,04	1,60	0,47	1,48	2746,75
2008	1879	2.754,42	1,47	0,38	1,47	2758,85
2011	2282	2.964,36	1,30	0,26	1,31	2987,75
2012	3330	3.395,64	1,02	0,02	0,97	3235,77

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



c	0,91886363	
d	-0,000284553	
E_MSY	-1/d	3514,28438
C_MSY	(-1/d)*EXP(c-1)	3240,40896
U_MSY	Exp(c-1)	0,92206794
JTB	80%*C_MSY	2592,327168
T.Pemanfaatan	C.Th terakhir/CMSY	105%
T.Pengupayaan	E.Th terakhir/EMSY	95%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,719730131
R Square	0,518011461
Adjusted R Square	0,457762894
Standard Error	0,153881818
Observations	10

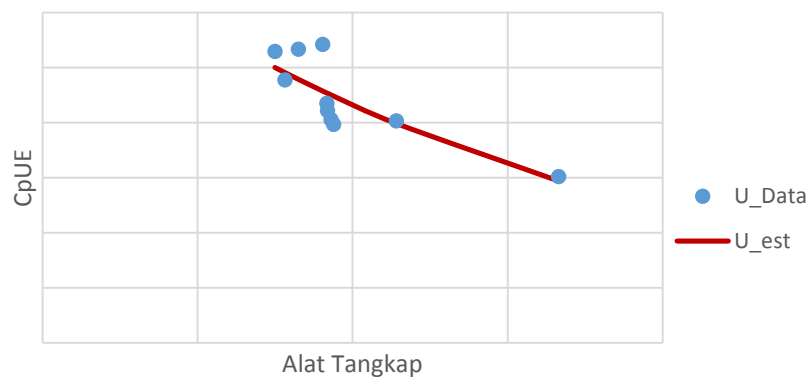
<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,203595073	0,20359507	8,597905	0,018934
Residual	8	0,189436912	0,02367961		
Total	9	0,393031985			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	0,91886363	0,195796636	4,69294902	0,001556	0,467356	1,37037148	0,46736	1,370371482
X Variable 1	-0,000284553	9,70436E-05	-2,9322184	0,018934	-0,00051	-6,077E-05	-0,00051	-6,07701E-05

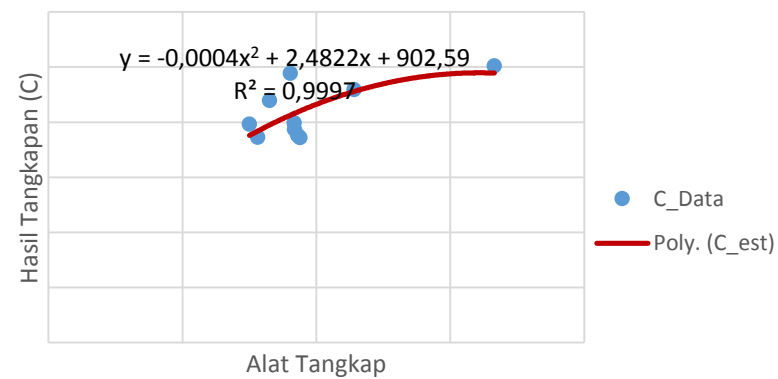
Lampiran 15. Perhitungan Model Surplus Produksi (*Equilibrium State Fox*) Ikan Kembung

Tahun	Alat Tangkap (E)	Hasil Tangkapan (C)	CpUE (U)	Ln U	U_est	C_est
	(unit)	(ton)	(ton/unit)			
2006	1500	3.966,42	2,65	0,97	2,50	3749,86
2005	1564	3.732,96	2,39	0,87	2,45	3838,32
2003	1650	4.401,06	2,67	0,98	2,39	3949,96
2004	1807	4.894,38	2,71	1,00	2,29	4132,10
2009	1834	3.989,28	2,18	0,78	2,27	4161,64
2010	1838	3.874,74	2,11	0,75	2,27	4165,92
2007	1861	3.767,82	2,02	0,71	2,25	4189,82
2008	1879	3.724,86	1,98	0,68	2,24	4207,83
2011	2282	4.594,38	2,01	0,70	1,99	4546,00
2012	3330	5.024,04	1,51	0,41	1,47	4892,65

Hubungan CpUE dengan Alat Tangkap



Hubungan antara Hasil Tangkapan (C) dengan Alat Tangkap (E)



c	1,35222153	
d	-0,000290527	
E_MSY	-1/d	3442,020002
C_MSY	(-1/d)*EXP(c-1)	4895,321919
U_MSY	Exp(c-1)	1,422223554
JTB	80%*C_MSY	3916,257536
T.Pemanfaatan	C.Th terakhir/CMSY	103%
T.Pengupayaan	E.Th terakhir/EMSY	97%

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0,854731785
R Square	0,730566424
Adjusted R Square	0,696887227
Standard Error	0,098914089
Observations	10

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0,212233672	0,2122337	21,69192	0,001629
Residual	8	0,078271976	0,009784		
Total	9	0,290505648			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95,0%</i>	<i>Upper 95,0%</i>
Intercept	1,35222153	0,125856622	10,744143	4,95E-06	1,061996	1,6424474	1,062	1,64245
X Variable 1	-0,000290527	6,23789E-05	-4,657458	0,001629	-0,00043	-0,000146	-0,0004	-0,0001

Lampiran 16. Perhitungan Model Surplus Produksi (*Non Equilibrium State*) Ikan Layang

Tahun	Alat / Effort (E)	Hasil Tangkapan / Catch (C)	CpUE	Y1	U (X1)	E (X2)	Y2	U (X1)	U ² (X2)	Ut*Et (X3)
	(unit)	(ton)	U	(Ut+1/Ut)-1	ton/unit	unit	(Ut+1)-Ut			
2003	1650	14.945,46	9,06	-0,11	9,06	1650	-1,04	9,06	82,02	14945,46
2004	1807	14.490,72	8,02	-0,08	8,02	1807	-0,60	8,02	64,34	14490,72
2005	1564	11.599,08	7,42	-0,41	7,42	1564	-3,06	7,42	55,01	11599,08
2006	1500	6.526,68	4,35	-0,24	4,35	1500	-1,05	4,35	18,94	6526,68
2007	1861	6.147,84	3,30	0,28	3,30	1861	0,91	3,30	10,91	6147,84
2008	1879	7.914,78	4,21	-0,03	4,21	1879	-0,15	4,21	17,75	7914,78
2009	1834	7.461,06	4,07	-0,20	4,07	1834	-0,83	4,07	16,55	7461,06
2010	1838	5960,1	3,24	-0,19	3,24	1838	-0,63	3,24	10,51	5960,1
2011	2282	5961	2,61	-0,16	2,61	2282	-0,41	2,61	6,83	5961
2012	3330	7.346,28	2,21		2,21	3330		2,21	4,87	7346,28

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,828539251
R Square	0,68647729
Adjusted R Square	0,415303054
Standard Error	0,855921055
Observations	9

ANOVA

	df	SS	MS	F	Significance F
Regression	3	9,624448232	3,20815	4,37912	0,0728
Residual	6	4,395605114	0,7326		
Total	9	14,02005335			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	-1,384031328	0,752615298	-1,839	0,11554	-3,2256	0,45755	-3,225614	0,457551963
X Variable 2	0,013319699	0,026767182	0,49761	0,63646	-0,0522	0,07882	-0,052177	0,078816634
X Variable 3	0,000658954	0,000378985	1,73873	0,13274	-0,0003	0,00159	-0,000268	0,001586297

Lampiran 17. Perhitungan Model Surplus Produksi (*Non Equilibrium State*) Ikan Selar

Tahun	Alat / Effort (E)	Hasil Tangkapan / Catch (C)	CpUE	Y1	U (X1)	E (X2)	Y2	U (X1)	U ² (X2)	Ut*Et (X3)
	(unit)	(ton)	U	(Ut+1/Ut)-1	ton/unit	unit	(Ut+1)-Ut			
2003	1650	2.550,12	1,55	-0,43	1,55	1650	-0,66	1,55	2,39	2550,12
2004	1807	1.599,18	0,89	1,07	0,89	1807	0,94	0,89	0,78	1599,18
2005	1564	2.860,08	1,83	-0,02	1,83	1564	-0,04	1,83	3,34	2860,08
2006	1500	2.677,38	1,79	-0,18	1,79	1500	-0,32	1,79	3,19	2677,38
2007	1861	2.722,86	1,46	-0,10	1,46	1861	-0,14	1,46	2,14	2722,86
2008	1879	2.484,18	1,32	0,04	1,32	1879	0,05	1,32	1,75	2484,18
2009	1834	2.512,38	1,37	-0,01	1,37	1834	-0,02	1,37	1,88	2512,38
2010	1838	2.490,06	1,35	-0,26	1,35	1838	-0,36	1,35	1,84	2490,06
2011	2282	2.280,72	1,00	-0,21	1,00	2282	-0,21	1,00	1,00	2280,72
2012	3330	2.613,72	0,79		0,79	3330		0,79	0,62	2613,72

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,66857462
R Square	0,446992022
Adjusted R Square	0,095989363
Standard Error	0,38716941
Observations	9

ANOVA

	df	SS	MS	F	Significance F
Regression	3	0,72697872	0,24233	1,61658	0,29758
Residual	6	0,899400911	0,1499		
Total	9	1,626379631			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	4,249350601	2,529897189	1,67965	0,14403	-1,9411	10,4398	-1,9411	10,4398
X Variable 2	-1,297500737	0,675533065	-1,9207	0,10317	-2,9505	0,35547	-2,9505	0,35547
X Variable 3	-0,001372473	0,000918455	-1,4943	0,18571	-0,0036	0,00087	-0,0036	0,00087

Lampiran 18. Perhitungan Model Surplus Produksi (*Non Equilibrium State*) Ikan Teri

Tahun	Alat / Effort (E)	Hasil Tangkapan / Catch (C)	CpUE	Y1	U (X1)	E (X2)	Y2	U (X1)	U ² (X2)	Ut*Et (X3)
	(unit)	(ton)	U	(Ut+1/Ut)-1	ton/unit	unit	(Ut+1)-Ut			
2003	1650	2838,3	1,72	0,22	1,72	1650	0,37	1,72	2,96	2838,3
2004	1807	3780,96	2,09	-0,13	2,09	1807	-0,27	2,09	4,38	3780,96
2005	1564	2856,3	1,83	-0,05	1,83	1564	-0,09	1,83	3,34	2856,3
2006	1500	2606,4	1,74	0,01	1,74	1500	0,02	1,74	3,02	2606,4
2007	1861	3264,48	1,75	-0,20	1,75	1861	-0,35	1,75	3,08	3264,48
2008	1879	2638,44	1,40	1,03	1,40	1879	1,45	1,40	1,97	2638,44
2009	1834	5229,18	2,85	-0,48	2,85	1834	-1,37	2,85	8,13	5229,18
2010	1838	2723,82	1,48	0,34	1,48	1838	0,50	1,48	2,20	2723,82
2011	2282	4531,2	1,99	-0,18	1,99	2282	-0,36	1,99	3,94	4531,2
2012	3330	5424,84	1,63		1,63	3330		1,63	2,65	5424,84

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,82077322
R Square	0,673668679
Adjusted R Square	0,398224905
Standard Error	0,505020181
Observations	9

ANOVA

	df	SS	MS	F	Significance F
Regression	3	3,159048642	1,05302	4,12874	0,08048
Residual	6	1,530272297	0,25505		
Total	9	4,689320939			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1,251512951	0,805679913	1,55336	0,17133	-0,7199	3,22294	-0,7199	3,22294
X Variable 2	-0,613917925	0,182568894	-3,3627	0,01518	-1,0606	-0,1672	-1,0606	-0,1672
X Variable 3	-3,41876E-05	0,000421215	-0,0812	0,93795	-0,0011	0,001	-0,0011	0,001

Lampiran 19. Perhitungan Model Surplus Produksi (*Non Equilibrium State*) Ikan Tembang

Tahun	Alat / Effort (E)	Hasil Tangkapan / Catch (C)	CpUE	Y1	U (X1)	E (X2)	Y2	U (X1)	U ² (X2)	Ut*Et (X3)
	(unit)	(ton)	U	(Ut+1/Ut)-1	ton/unit	unit	(Ut+1)-Ut			
2003	1650	2.371,44	1,44	-0,25	1,44	1650	-0,36	1,44	2,07	2371,44
2004	1807	1.944,72	1,08	0,81	1,08	1807	0,87	1,08	1,16	1944,72
2005	1564	3.044,94	1,95	-0,04	1,95	1564	-0,08	1,95	3,79	3044,94
2006	1500	2.797,92	1,87	-0,14	1,87	1500	-0,26	1,87	3,48	2797,92
2007	1861	2.984,04	1,60	-0,09	1,60	1861	-0,14	1,60	2,57	2984,04
2008	1879	2.754,42	1,47	-0,06	1,47	1879	-0,09	1,47	2,15	2754,42
2009	1834	2.522,34	1,38	0,14	1,38	1834	0,19	1,38	1,89	2522,34
2010	1838	2.872,14	1,56	-0,17	1,56	1838	-0,26	1,56	2,44	2872,14
2011	2282	2.964,36	1,30	-0,22	1,30	2282	-0,28	1,30	1,69	2964,36
2012	3330	3.395,64	1,02		1,02	3330		1,02	1,04	3395,64

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,611226541
R Square	0,373597884
Adjusted R Square	-0,001869488
Standard Error	0,349930026
Observations	9

ANOVA

	df	SS	MS	F	Significance F
Regression	3	0,43819242	0,14606	1,19284	0,40148
Residual	6	0,73470614	0,12245		
Total	9	1,17289856			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	2,327511928	1,50335397	1,54821	0,17254	-1,3511	6,00609	-1,3511	6,00609
X Variable 2	-0,768601257	0,4356525	-1,7643	0,12814	-1,8346	0,2974	-1,8346	0,2974
X Variable 3	-0,00065492	0,00052226	-1,254	0,25648	-0,0019	0,00062	-0,0019	0,00062

Lampiran 20. Perhitungan Model Surplus Produksi (*Non Equilibrium State*) Ikan Kembung

Tahun	Alat / Effort (E)	Hasil Tangkapan / Catch (C)	CpUE	Y1	U (X1)	E (X2)	Y2	U (X1)	U ² (X2)	Ut*Et (X3)
	(unit)	(ton)	U	(Ut+1/Ut)-1	ton/unit	unit	(Ut+1)-Ut			
2003	1650	4.401,06	2,67	0,02	2,67	1650	0,04	2,67	7,11	4401,06
2004	1807	4.894,38	2,71	-0,12	2,71	1807	-0,32	2,71	7,34	4894,38
2005	1564	3.732,96	2,39	0,11	2,39	1564	0,26	2,39	5,70	3732,96
2006	1500	3.966,42	2,65	-0,23	2,65	1500	-0,62	2,65	7,00	3966,42
2007	1861	3.767,82	2,02	-0,02	2,02	1861	-0,04	2,02	4,10	3767,82
2008	1879	3.724,86	1,98	0,10	1,98	1879	0,19	1,98	3,93	3724,86
2009	1834	3.989,28	2,18	-0,03	2,18	1834	-0,07	2,18	4,73	3989,28
2010	1838	3.874,74	2,11	-0,04	2,11	1838	-0,09	2,11	4,44	3874,74
2011	2282	4.594,38	2,01	-0,25	2,01	2282	-0,50	2,01	4,05	4594,38
2012	3330	5.024,04	1,51		1,51	3330		1,51	2,28	5024,04

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0,635014663
R Square	0,403243622
Adjusted R Square	0,037658163
Standard Error	0,293144211
Observations	9

ANOVA

	df	SS	MS	F	Significance F
Regression	3	0,348404964	0,11613	1,35145	0,35762
Residual	6	0,515601172	0,08593		
Total	9	0,864006136			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95,0%	Upper 95,0%
Intercept	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
X Variable 1	1,161933291	0,843327109	1,3778	0,21745	-0,9016	3,22548	-0,9016	3,22548
X Variable 2	-0,252373082	0,190606826	-1,3241	0,23369	-0,7188	0,21403	-0,7188	0,21403
X Variable 3	-0,000352042	0,000269109	-1,3082	0,23869	-0,001	0,00031	-0,001	0,00031