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LAMPIRAN

STOCK PRODUKSI 2019

URAIAN	SA-TUAN	BULAN												S.D. BULAN DEC	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aktual	Budget
[1]	[2]	[3]												[4]	[5]

CANGKANG (SHELL)															
Stok Awal	ton	103	63	60	129	69	114	310	251	778	202	71	91	103	
Produk	ton	1.827	1.718	2.111	1.591	1.783	1.583	2.513	2.572	2.114	1.760	1.284	1.534	22.389	-
- Cangkang / TBS	%	8,0	8,1	8,1	7,4	7,3	7,5	7,6	8,1	7,0	7,0	7,4	7,6	7,6	-
Penerimaan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pengiriman	ton	1.867	1.721	2.042	1.650	1.738	1.387	2.572	2.045	2.690	1.892	1.264	1.510	22.377	-
1. Bahan Bakar Boiler	ton	226	514	529	698	768	480	448	285	238	147	67	74	4.476	-
2. Pengerasan Jalan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Dijual	ton	1.641	1.207	1.513	952	970	906	2.124	1.759	2.451	1.745	1.196	1.436	17.901	-
4. Unit Lain															
- 4. Unit Lain	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5. Lain-lain	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stok Akhir	ton	63	60	129	69	114	310	251	778	202	71	91	115	115	

FIBRE															
Stok Awal	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	
Produk	ton	3.019	2.821	3.460	2.841	3.205	2.768	4.254	4.075	3.831	3.168	2.130	2.463	38.034	-
- Fibre / TBS	%	13,2	13,3	13,3	13,3	13,1	13,2	12,9	12,8	12,8	12,6	12,3	12,1	12,9	-
Pengiriman	ton	3.019	2.821	3.460	2.841	3.205	2.768	4.254	4.075	3.831	3.168	2.130	2.463	38.034	-
1. Bahan Bakar Boiler	ton	3.019	2.821	3.460	2.841	3.205	2.768	4.254	4.075	3.831	3.168	2.130	2.463	38.034	-
2. Dijual	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Tidak dimanfaatkan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stok Akhir	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	

STOCK PRODUKSI 2020

URAIAN	SA-TUAN	BULAN												S.D. BULAN DEC	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aktual	Budget
[1]	[2]	[3]												[4]	[5]

(CANGKANG (SHELL))

Stok Awal	ton	113	44	78	81	101	121	369	363	214	152	605	235	113	
Produksi	ton	1.151	1.187	1.145	1.603	1.184	1.426	2.158	2.274	2.045	1.743	1.398	1.234	18.548	-
- Cangkang / TBS	%	7,8	7,8	7,0	7,4	7,2	6,0	6,7	6,8	7,1	6,8	6,2	6,6	6,9	-
Penerimaan	ton	-	-	-	-	-	-	-	-	-	-	99	-	99	-
Pengiriman	ton	1.220	1.153	1.142	1.584	1.164	1.178	2.164	2.422	2.106	1.290	1.867	1.300	18.591	-
1. Bahan Bakar Boiler	ton	48	20	48	27	39	88	121	60	88	73	66	53	732	-
2. Pengerasan Jalan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Dijual	ton	1.172	1.133	1.094	1.557	1.125	1.090	2.043	2.362	2.018	1.218	1.801	1.247	17.859	-
4. Unit Lain															
Stok Akhir	ton	44	78	81	101	121	369	363	214	152	605	235	169	169	

FIBRE

Stok Awal	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Produksi	ton	1.864	1.913	2.090	2.715	1.975	2.786	3.728	3.821	3.589	3.256	2.857	2.221	32.816	-
- Fibre / TBS	%	12,6	12,6	12,8	12,5	12,0	11,7	11,5	11,5	12,5	12,7	12,6	11,9	12,2	-
Pengiriman	ton	1.864	1.913	2.090	2.715	1.975	2.786	3.728	3.821	3.589	3.256	2.857	2.221	32.816	-
1. Bahan Bakar Boiler	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2. Dijual	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3. Tidak dimanfaatkan	ton	1.864	1.913	2.090	2.715	1.975	2.786	3.728	3.821	3.589	3.256	2.857	2.221	32.816	-
Stok Akhir	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-

STOCK PRODUKSI 2021

URAIAN	SA-TUAN	BULAN												S.D. BULAN DEC		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aktual	Budget	
		[3]												[4]	[5]	
[1]	[2]	CANGKANG (SHELL)														
Stok Awal	ton	163	105	139	160	203	279	38	92	77	88	83	32	163		
Produksi	ton	1.225	1.164	1.568	1.873	1.834	1.626	1.669	1.796	1.537	1.418	1.289	918	17.915	22.731	
- Cangkang / TBS	%	7,0	7,1	6,8	7,2	7,0	6,1	6,2	6,6	6,6	6,6	6,3	6,2	6,6	7,0	
Penerimaan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pengiriman	ton	1.283	1.130	1.546	1.830	1.758	1.867	1.614	1.812	1.525	1.422	1.340	884	18.012	22.731	
1. Bahan Bakar Boiler	ton	35	25	242	59	44	188	133	112	85	60	44	28	1.054	455	
2. Pengerasan Jalan	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3. Dijual	ton	1.248	1.106	1.304	1.771	1.714	1.657	1.481	1.700	1.440	1.363	1.296	856	16.935	22.276	
4. Unit Lain																
- 4. Unit Lain	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	0 ton	-	-	-	-	-	11	-	-	-	-	-	-	11	-	
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	0 ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	ton	-	-	-	-	-	11	-	-	-	-	-	-	11	-	
5. Lain-lain	ton	-	-	-	-	-	11	-	-	-	-	-	-	11	-	
Stok Akhir	ton	105	139	160	203	279	38	92	77	88	83	32	66	66		
FIBRE																
Stok Awal	ton	-	-	-	-	-	-	-	-	-	-	-	-	-		
Produksi	ton	2.091	1.962	2.828	3.180	3.042	3.122	2.870	3.034	2.662	2.526	2.389	1.756	31.462	-	
- Fibre / TBS	%	11,9	12,0	12,3	12,2	11,6	11,7	10,7	11,1	11,4	11,8	11,7	11,8	11,7	-	
Pengiriman	ton	2.091	1.962	2.828	3.180	3.042	3.122	2.870	3.034	2.662	2.526	2.389	1.756	31.462	-	
1. Bahan Bakar Boiler	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2. Dijual	ton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3. Tidak dimanfaatkan	ton	2.091	1.962	2.828	3.180	3.042	3.122	2.870	3.034	2.662	2.526	2.389	1.756	31.462	-	
Stok Akhir	ton	-	-	-	-	-	-	-	-	-	-	-	-	-		

Detail Biogas Prod 2020

Description	UoM	Actual 2020												YTD - Dec 2020		Var YTD 20 Vs Bgt'20
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aktual	Budget	
FFB Process																
Total	MT	14.280	14.733	15.883	21.100	16.082	23.153	31.326	32.186	27.883	24.821	21.897	18.089	261.433	336.141	(22,2)
UF COMMERCIAL	%	59	49	53	70	54	79	108	111	96	83	73	60	75	93	(18,4)
POME																
POME Prod	m3	6.961	7.811	8.010	10.638	8.130	11.789	16.423	18.812	16.131	13.712	12.001	9.611	140.029	161.348	(13,2)
%POME PROD	%	49	53	50	50	51	51	52	58	58	55	55	53	54	48	11,6
COD Prod	mg/L	99.298	97.593	97.745	96.577	87.237	93.851	93.590	98.985	98.151	93.878	93.221	90.583	95.255	85.000	12,1
POME to MST	m3	10.340	9.860	9.574	9.777	10.820	11.763	15.494	17.980	17.410	14.621	12.150	11.220	151.009	161.348	(6,4)
%POME to MST	%	149	126	120	92	133	100	94	96	108	107	101	117	108	100	7,8
COD MST	mg/L	82.671	83.128	83.187	85.305	83.359	85.091	91.736	88.983	91.448	89.300	86.974	83.412	86.879	70.000	24,1
POME to Digester	m3	10.482	9.860	9.640	9.877	11.124	12.115	15.494	17.980	17.402	14.641	12.143	11.320	152.078	161.348	(5,7)
%POME to Digester	%	151	126	120	93	137	103	94	96	108	107	101	118	109	100	8,6
Sludge Drain	m3	3.255	3.045	3.255	3.365	3.515	4.606	5.043	5.208	8.593	11.284	10.940	10.920	73.029	-	-
%Sludge Drain	%	47	39	41	32	43	39	31	28	53	82	91	114	52	-	-
COD Sludge	mg/L	17.823	17.928	17.852	18.835	17.443	18.299	18.775	21.419	23.917	24.703	22.916	21.992	21.376	-	-
Gas Prod																
Gas Yield	Nm3	638.468	612.193	618.540	613.440	678.721	753.319	848.604	869.271	881.597	578.348	685.631	719.984	8.498.116	6.453.907	31,7
Gas Yield/ day	Nm3	21.282	20.406	20.618	20.448	22.624	25.111	28.287	28.976	29.387	19.278	22.854	23.999	23.606	17.349	36,1
Ratio Gas/ POME		92	78	77	58	83	64	52	46	55	42	57	75	61	40	51,7
Gas to Engine	Nm3	193.769	120.202	108.219	203.443	77.642	5.463	64.993	117.928	180.674	88.360	108.115	72.208	1.341.014	83.252	1.510,8
Gas to Engine/ day	Nm3	8.808	5.464	4.919	9.247	3.529	248	2.954	5.360	8.212	4.016	4.914	3.282	5.080	226	2.149,7
%Gas to Engine	%	30	20	17	33	11	1	8	14	20	15	16	10	16	1	1.123,3
Gas Burner	Nm3	46.502	233.983	282.039	255.565	312.512	536.646	736.297	667.921	645.863	410.768	475.897	438.255	5.042.247	4.517.735	11,6
Gas Burner / day	Nm3	2.583	12.999	15.669	14.198	17.362	29.814	40.905	37.107	35.881	22.820	26.439	24.347	23.344	12.214	91,1
%Gas Burner	%	7	38	46	42	46	71	87	77	73	71	69	61	59	70	(15,2)
Gas Flare	Nm3	398.197	258.008	228.282	154.432	288.567	211.210	47.315	83.423	55.060	79.220	101.619	186.918	2.092.251	1.852.920	12,9
Gas Flare/ day	Nm3	22.122	14.334	12.682	8.580	16.031	11.734	2.629	4.635	3.059	4.401	5.646	10.384	9.686	5.010	93,4
%Gas Flare	%	62	42	37	25	43	28	6	10	6	14	15	26	25	29	(14,2)

Gas Content (Before B Clean)																
Methane (CH4)	%	64	63	65	63	57	56	73	56	55	57	57	56	64	64	63
CO2	%	50	51	50	52	47	46	45	46	47	46	48	48	54	55	53
H2S	ppm	2.011	1.776	1.868	2.091	2.327	2.218	2.818	2.481	2.467	2.479	2.223	2.230	2.256	3.000	24,8
Gas Content (After B Clean)																
Methane (CH4)	%	57	56	73	56	55	57	57	56	57	58	58	58	58	63	(5,0)
CO2	%	47	60	45	46	47	46	48	48	48	48	47	46	48	40	7,9
O2	%	1	2	2	1	2	2	1	2	2	2	1	1	2	2	(0,0)
H2S	ppm	11	11	13	13	20	18	48	73	26	26	13	28	27	200	86,6
Power Prod																
Gas Engine 1																
Running Hour	HM	499	327	276	475	201	14	141	255	418	214	264	197	3.281	270	1.115,2
Daya	kWh	415.000	258.300	234.500	462.800	176.700	11.100	142.000	256.200	396.700	199.700	244.941	159.200	2.957.141	147.000	1.911,7
Daya/ jam	kW/h	832	790	850	974	879	793	1.007	1.005	949	933	928	808	901	544	65,5
%Efficiency	%	69	66	71	81	73	66	84	84	79	78	77	67	75	45	29,7
Total Gas Engine																
Running Hour	HM	499	327	276	475	201	14	141	255	418	214	264	197	3.281	270	1.115,2
Daya	kWh	415.000	258.300	234.500	462.800	176.700	11.100	142.000	256.200	396.700	199.700	244.941	159.200	2.957.141	147.000	1.911,7
Daya/ jam	kW/h	832	790	850	974	879	793	1.007	1.005	949	933	928	808	901	544	65,5
%Efficiency	%	69,31	65,83	70,80	81	73	66	84	84	79	78	77	67	75,11	45,37	29,7
%UF Commercial	%	38	24	22	43	16	1	13	24	37	18	23	15	23	1	21,7
Rasio Gas/kWh		0,5	0,5	0,5	0,4	0,4	0,5	0,5	0,5	0,5	0,4	0,4	0,5	0,5	0,6	19,9
Rasio kWh/ Gas		2,1	2,1	2,2	2,3	2,3	2,0	2,2	2,2	2,2	2,3	2,3	2,2	2,2	1,8	24,9
Power to PLN																
Daya	kWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jam Koneksi	HM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Daya/ jam	kW/h	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Sales from target	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Detail Biogas Prod 2021

Description	UoM	Historis YTD		Actual 2021												YTD - Oct 2021		Var YTD 20 Vs
		Oct 2020	2020	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Aktual	Budget	
FFB Process																		
Total	MT	221.447	16.942	15.745	22.233	25.277	25.277	25.277	25.826	25.954	26.391	22.607	20.715	-	-	226.967	269.955	
UF COMMERCIAL	%	76	70	52	74	84	84	84	89	89	91	78	69	-	-	78	90	
POME																		
IPOME Prod	m3	118.418	9.645	8.928	12.994	14.376	14.407	14.692	14.702	15.041	12.880	11.426	-	-	-	129.092	129.889	
%POME PROD	%	53	57	57	58	57	57	57	57	57	57	57	55	-	-	57	48	
COD Prod	mg/L	95.840	86.544	94.946	94.196	91.577	84.118	85.510	89.851	91.401	89.131	87.056	-	-	-	89.313	85.000	
POME to MST	m3	127.639	10.500	8.720	12.280	16.580	15.430	16.780	16.090	16.719	16.370	14.385	-	-	-	143.854	129.889	
%POME to MST	%	108	109	98	95	115	107	114	109	111	127	126	-	-	-	111	100	
COD MST	mg/L	87.174	81.073	87.003	88.324	87.725	83.298	84.791	84.828	87.121	82.886	82.039	-	-	-	84.916	70.000	
POME to Digester	m3	128.615	10.479	8.666	12.087	16.400	15.683	16.780	16.076	16.741	16.190	14.373	-	-	-	143.475	129.889	
%POME to Digester	%	109	109	97	93	114	109	114	109	111	126	126	-	-	-	111	100	
Sludge Drain	m3	51.169	11.284	4.628	5.325	6.750	6.750	6.750	6.975	7.125	6.750	7.075	-	-	-	69.412	-	
%Sludge Drain	%	43	117	52	41	47	47	46	47	47	52	62	-	-	-	54	-	
COD Sludge	mg/L	20.915	21.981	22.844	23.318	23.217	22.287	22.270	22.300	23.177	22.117	21.943	-	-	-	22.483	-	
Drain AnMBR Permeate	m3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
%AnMBR Permeate	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COD Permeate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Drain	m3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
%Drain	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COD Drain	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gas Prod																		
Gas Yield	Nm3	7.092.501	701.462	582.017	696.753	849.435	829.495	861.848	750.961	837.597	794.437	713.246	-	-	-	7.617.251	5.195.571	
Gas Yield/ day	Nm3	23.642	23.382	19.401	23.225	28.315	27.650	28.728	25.032	27.920	26.481	23.775	-	-	-	25.391	16.760	
Rasio Gas/ POME		60	73	65	54	59	58	59	51	56	62	62	-	-	-	59	40	
Gas to Engine	Nm3	1.160.691	48.812	-	34.932	104.950	92.162	66.671	-	102.212	162.468	190.186	-	-	-	802.392	67.020	
Gas to Engine/ day	Nm3	5.276	2.219	-	1.588	4.770	4.189	3.031	-	4.646	7.385	8.645	-	-	-	3.647	219	
%Gas to Engine	%	16	7	-	5	12	11	8	-	12	20	27	-	-	-	11	1	
Gas Burner	Nm3	4.128.095	445.802	428.213	542.478	633.467	585.822	713.357	683.876	647.720	429.588	278.598	-	-	-	5.388.920	3.636.900	
Gas Burner/ day	Nm3	22.934	24.767	23.790	30.138	35.193	32.546	39.631	37.993	35.984	23.866	15.478	-	-	-	29.938	11.813	
%Gas Burner	%	58	64	74	78	75	71	83	91	77	54	39	-	-	-	71	70	
Gas Flare	Nm3	1.803.714	206.848	153.804	119.344	111.018	151.511	81.820	67.085	87.665	202.382	244.462	-	-	-	1.425.939	1.491.651	
Gas Flare/ day	Nm3	10.021	11.492	8.545	6.630	6.168	8.417	4.546	3.727	4.870	11.243	13.581	-	-	-	7.922	4.845	
%Gas Flare	%	25	29	26	17	13	18	9	9	10	25	34	-	-	-	19	29	

Gas Content (Before B Clean)																			
Methane (CH4)	%	64	62	63	63	63	63	63	63	63	63	63	63	63	-	-	-	63	(0.4)
CO2	%	52	56	56	57	57	55	57	57	57	57	57	57	57	-	-	-	40	17,1
H2S	ppm	2.262	2.094	2.070	2.191	2.054	2.008	2.187	2.167	2.115	2.246	2.189	2.189	2.189	-	-	-	3.000	28,9
Gas Content (After B Clean)																			
Methane (CH4)	%	58	57	57	58	57	57	58	59	57	58	57	57	57	-	-	-	63	(5.3)
CO2	%	48	46	61	46	46	-	52	55	59	57	57	57	57	-	-	-	40	7,4
O2	%	2	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	2	(0.2)
H2S	ppm	28	18	38	53	31	47	92	968	62	85	63	63	63	-	-	-	200	27,3
Power Prod																			
Gas Engine 1																			
Running Hour	HM	2.820	140	-	76	277	230	173	-	258	410	464	464	464	-	-	-	225	801,3
Daya	kWh	2.553.000	358.768	320.424	78.450	228.388	206.196	150.420	-	229.200	360.900	425.500	425.500	425.500	-	-	-	134.040	1.659,4
Daya/ jam	kW/h	905	2.563	-	1.032	825	897	869	-	888	880	917	917	917	-	-	-	596	95,2
%Efficiency	%	75	214	-	86	69	75	72	-	74	73	76	76	76	-	-	-	50	47,3
Gas Engine 2																			
Running Hour	HM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Daya	kWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Daya/ jam	kW/h	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
%Efficiency	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Gas Engine																			
Running Hour	HM	2.820	140	-	76	277	230	173	-	258	410	464	464	464	-	-	-	225	801,3
Daya	kWh	2.553.000	358.768	320.424	78.450	228.388	206.196	150.420	-	229.200	360.900	425.500	425.500	425.500	-	-	-	134.040	1.659,4
Daya/ jam	kW/h	905	2.563	-	1.032	825	897	869	-	888	880	917	917	917	-	-	-	596	95,2
%Efficiency	%	75	213,55	-	86,02	69	75	72	-	74	73	76	76	76	-	-	-	49,64	47,3
%UF Commercial	%	30	33	30	7	21	19	14	-	21	33	39	39	39	-	-	-	1	20,6
Rasio Gas/kWh		0,5	0,1	-	0,4	0,5	0,4	0,4	-	0,4	0,5	0,4	0,4	0,4	-	-	-	0,5	32,0
Rasio kWh/ Gas		2,2	7,3	-	2,2	2,2	2,2	2,3	-	2,2	2,2	2,2	2,2	2,2	-	-	-	2,0	47,0
Power to PLN																			
Daya	kWh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jam Koneksi	HM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Daya/ jam	kW/h	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
% Sales from target	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data Penggunaan Turbin dan KWH 2020					Data Penggunaan Turbin dan KWH 2021			
Bulan	HM	Khw			Bulan	HM	Khw	
Jan					Jan	276	280.908	
Feb	132	121.824			Feb	363	334.614	
Mar	165	153.612			Mar	485	414.972	
Apr	21	16.398			Apr	378	377.770	
May	187	180.090			May	375	387.288	
Jun	455	452.160			Jun	460	450.513	
Jul	550	516.312			Jul	692	558.162	
Aug	439	433.152			Aug	507	427.392	
Sep	274	261.864			Sep	304	267.174	
Oct	380	358.074			Oct	160	143.136	
Nov	296	266.400			Nov	183	158.058	
Dec	244	236.916			Dec	152	135.464	