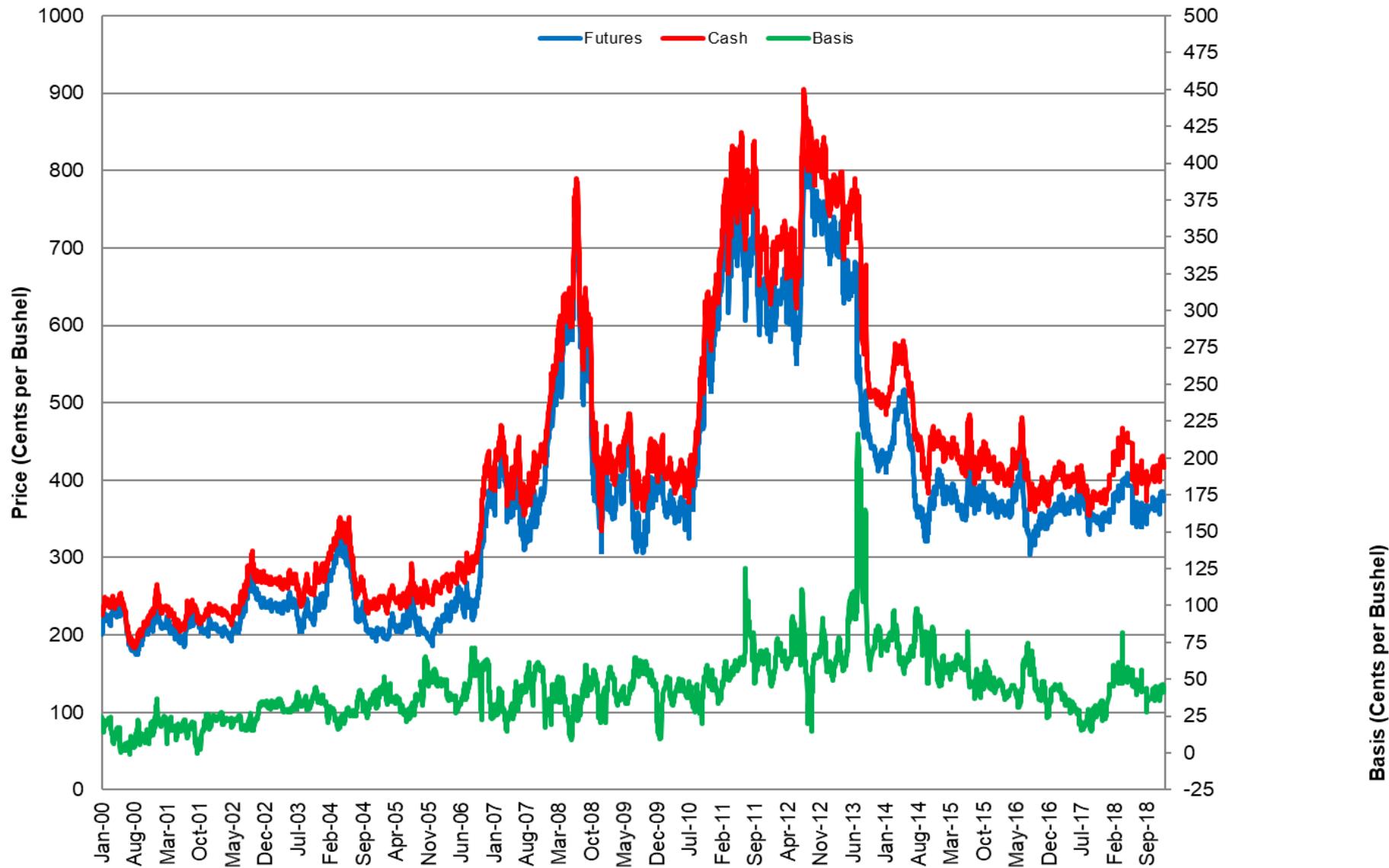


# **Gulf Basis Update – Corn, Soybeans, and Wheat**

Updated January 2, 2019

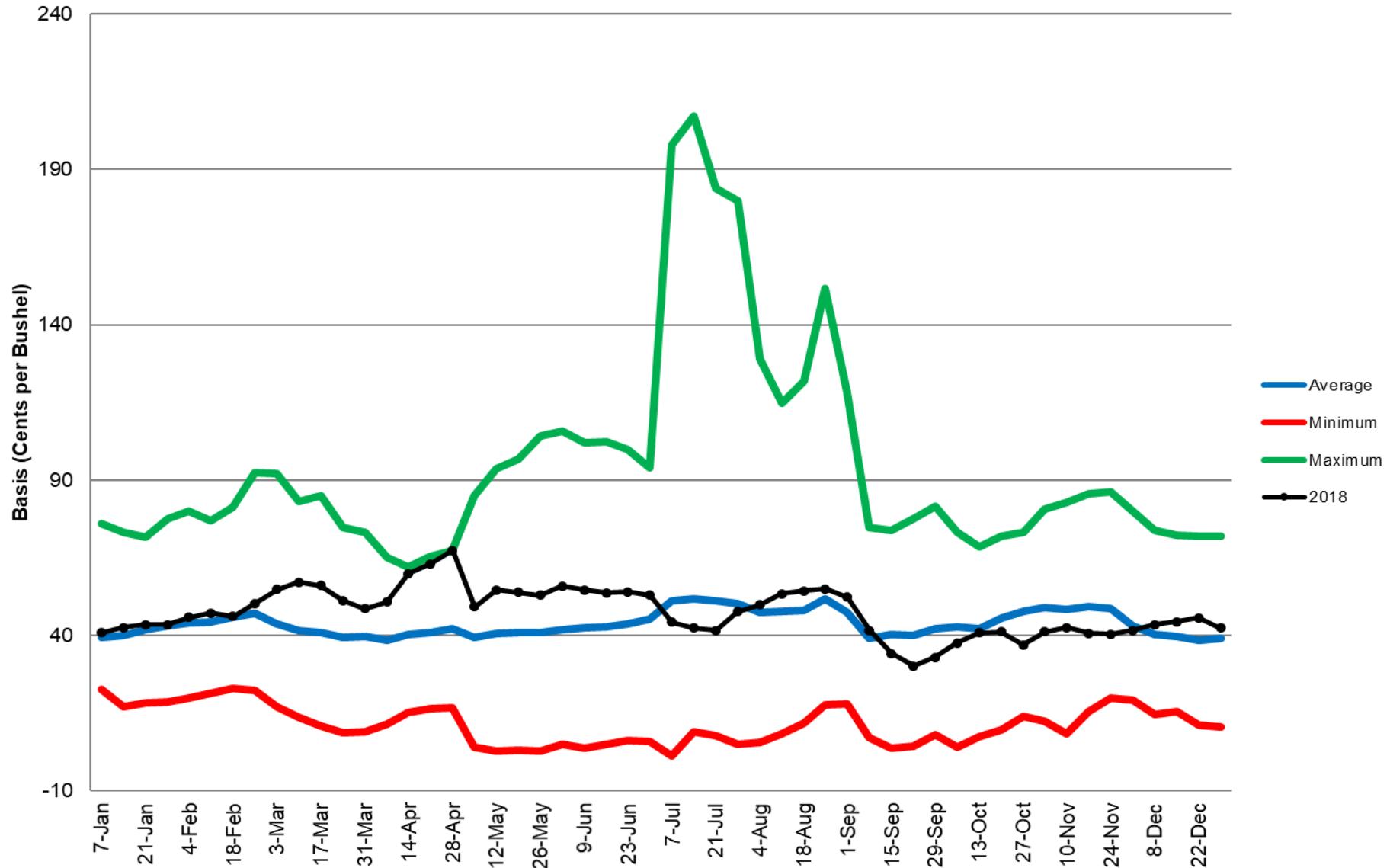
# Nearby Corn Futures, Gulf Export Price, and Basis

January 2000 - December 2018



# Gulf Export Price - Nearby Corn Futures Basis

## 2000 - 2018

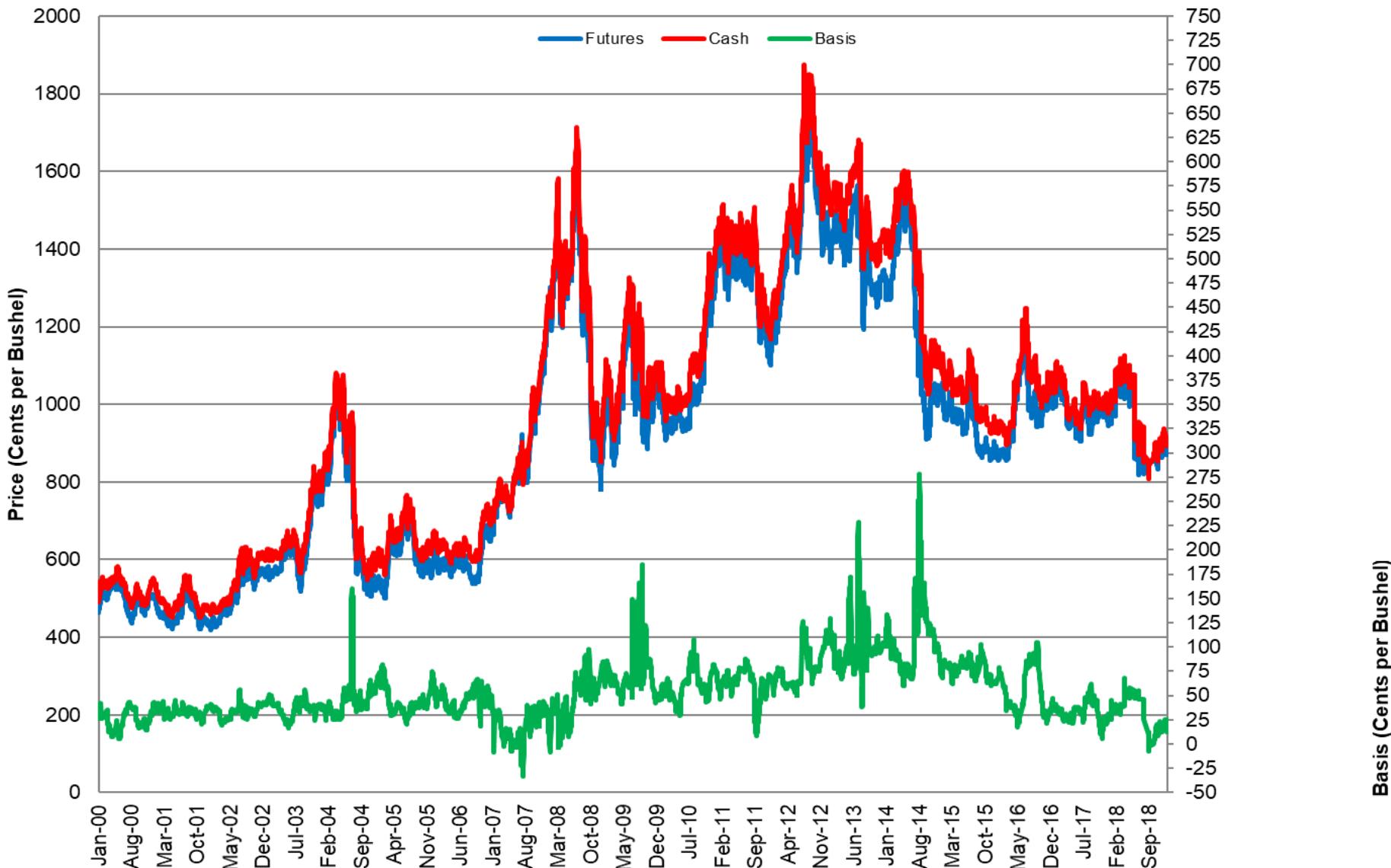


# Corn Gulf Basis Chart

Corn Gulf Basis	YEAR	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average	Minimum	Maximum
WEEK	▼																						
7-Jan	1	23.15	22.81	24.94	30.13	33.25	40.65	46.13	25.67	31.50	35.88	28.50	36.10	51.75	61.63	76.00	47.50	45.94	43.81	40.88	39.27	22.81	76.00
14-Jan	2	17.15	21.70	24.00	32.35	28.90	43.90	48.30	30.38	25.88	43.50	37.20	36.90	55.80	57.60	73.30	53.05	45.90	43.25	42.65	40.09	17.15	73.30
21-Jan	3	18.19	20.38	22.38	35.00	21.81	49.00	49.63	27.38	34.25	51.00	42.75	36.00	63.75	54.50	71.75	64.69	47.44	45.50	43.56	42.05	18.19	71.75
28-Jan	4	21.10	18.80	22.75	33.00	24.80	43.00	47.00	28.90	45.10	53.80	44.10	40.70	72.20	51.00	77.70	57.06	48.80	45.45	43.50	43.09	18.80	77.70
4-Feb	5	19.85	21.04	23.92	33.54	30.38	36.95	46.55	31.05	42.40	56.58	48.33	46.50	69.00	55.92	80.17	57.13	46.83	44.20	45.88	44.01	19.85	80.17
11-Feb	6	21.40	23.60	25.15	31.30	29.55	34.65	48.85	41.80	38.90	53.40	48.50	47.20	70.10	60.40	77.00	56.15	43.30	43.70	47.20	44.32	21.40	77.00
18-Feb	7	23.00	24.13	26.19	31.19	29.50	41.50	48.85	39.63	46.25	52.50	46.50	55.60	74.00	64.50	81.13	55.94	40.31	43.85	46.19	45.83	23.00	81.13
25-Feb	8	22.50	24.05	26.90	34.05	28.10	44.63	48.31	37.40	49.50	50.40	48.80	61.00	68.00	64.40	92.50	59.15	39.55	45.44	50.35	47.11	22.50	92.50
3-Mar	9	19.45	17.00	24.42	35.50	23.63	38.56	43.70	36.25	46.38	45.92	37.33	54.13	64.15	67.33	92.17	53.17	39.13	40.25	54.88	43.86	17.00	92.17
10-Mar	10	13.60	13.90	19.95	35.05	22.70	36.05	38.80	28.90	37.50	40.00	35.30	51.70	66.10	76.30	83.25	52.45	39.50	40.10	57.19	41.49	13.60	83.25
17-Mar	11	10.75	15.70	21.25	34.90	22.15	37.05	36.75	28.00	35.80	37.10	32.80	51.00	66.80	72.20	84.95	55.90	39.80	38.85	56.05	40.94	10.75	84.95
24-Mar	12	8.85	18.20	22.05	33.20	17.95	36.60	40.20	20.90	44.50	33.30	34.20	50.10	59.20	65.00	74.70	59.15	39.40	38.80	51.35	39.35	8.85	74.70
31-Mar	13	9.13	22.60	23.31	31.81	20.94	35.58	39.13	16.13	50.63	37.13	37.75	51.50	57.50	63.25	73.25	60.56	40.83	34.75	48.56	39.70	9.13	73.25
7-Apr	14	11.63	16.15	22.55	28.92	18.17	36.33	36.88	22.50	39.50	36.83	41.00	55.33	59.13	56.70	65.17	57.80	43.71	33.42	50.85	38.56	11.63	65.17
14-Apr	15	15.38	16.19	22.85	29.00	23.19	37.35	37.00	23.30	36.00	40.00	42.60	55.80	62.13	62.00	61.10	62.15	45.05	33.88	60.00	40.26	15.38	62.15
21-Apr	16	17.00	16.40	23.10	28.69	25.35	37.20	37.00	26.50	29.80	41.60	45.40	57.00	63.00	62.30	61.50	65.40	45.15	34.55	63.06	41.05	16.40	65.40
28-Apr	17	16.90	18.00	21.50	28.95	25.30	36.38	37.25	30.30	29.50	44.30	49.10	61.31	63.30	66.00	63.20	65.31	45.05	33.85	67.45	42.26	16.90	67.45
5-May	18	3.95	11.25	19.50	28.90	22.55	31.05	27.75	26.40	25.80	40.65	45.80	57.20	84.85	81.15	58.80	62.00	41.95	49.19	39.47	3.95	84.85	
12-May	19	2.90	12.65	19.75	28.85	24.05	31.20	30.30	24.50	18.00	35.80	47.00	56.10	90.50	93.80	58.15	64.35	42.50	34.75	54.75	40.52	2.90	93.80
19-May	20	3.00	16.85	21.35	28.00	27.00	32.10	30.90	30.80	13.40	34.60	49.50	58.80	84.50	96.80	62.70	61.85	37.38	32.40	53.95	40.84	3.00	96.80
26-May	21	2.95	16.70	22.45	29.13	29.80	29.13	33.80	39.00	10.13	34.25	46.50	60.30	77.25	104.10	62.25	58.88	36.13	32.58	52.95	40.96	2.95	104.10
2-Jun	22	5.06	16.06	22.45	30.17	29.10	27.40	33.13	46.38	18.17	37.25	42.60	63.20	71.38	105.90	64.75	58.79	36.00	30.81	41.81	5.06	105.90	
9-Jun	23	3.80	15.35	24.00	31.35	26.40	26.80	36.10	39.90	28.60	40.00	42.50	63.60	78.60	102.10	64.70	56.40	41.95	28.20	54.65	42.37	3.80	102.10
16-Jun	24	5.00	16.20	24.65	32.10	25.88	23.05	38.10	34.50	33.80	45.80	38.70	60.90	81.50	102.20	69.60	58.40	42.00	28.85	53.70	42.89	5.00	102.20
23-Jun	25	6.10	20.80	25.60	34.10	26.35	25.65	41.30	36.00	33.30	43.80	38.90	60.20	75.50	99.80	71.50	62.25	48.55	29.10	54.05	43.83	6.10	99.80
30-Jun	26	5.83	22.35	25.00	33.00	27.94	29.00	46.00	42.90	36.38	46.69	45.38	65.00	66.70	94.13	66.88	65.19	60.31	27.05	53.00	45.19	5.83	94.13
7-Jul	27	1.25	15.44	17.06	38.56	25.25	24.19	36.69	43.13	23.28	48.25	40.31	107.75	105.13	197.94	71.13	48.63	61.50	20.25	44.25	51.05	1.25	197.94
14-Jul	28	9.00	11.15	17.80	38.50	25.50	27.55	38.60	43.30	25.30	59.70	43.20	93.40	103.90	207.25	75.50	45.30	63.05	16.81	42.45	51.96	9.00	207.25
21-Jul	29	7.65	14.35	18.30	34.40	25.30	32.60	43.90	42.60	27.90	63.10	36.70	101.60	81.20	183.90	86.00	46.60	66.35	19.15	41.65	51.22	7.65	183.90
28-Jul	30	5.05	16.85	16.70	32.40	32.20	28.00	45.00	45.50	30.20	58.50	32.70	86.20	71.90	179.80	95.10	46.30	71.75	16.08	47.70	50.42	5.05	179.80
4-Aug	31	5.50	18.70	16.79	32.17	37.29	28.21	50.00	46.15	36.20	55.42	32.42	80.50	59.00	129.00	92.92	47.83	64.83	19.25	49.90	47.48	5.50	129.00
11-Aug	32	8.40	18.55	17.75	34.15	40.65	36.15	59.80	52.40	45.20	57.70	28.90	78.60	49.20	114.80	86.90	41.60	59.85	21.95	53.50	47.69	8.40	114.80
18-Aug	33	11.85	20.35	17.20	34.45	39.60	36.90	67.40	56.40	44.70	61.30	43.90	68.63	28.60	121.90	85.88	40.40	54.90	24.20	54.45	48.05	11.85	121.90
25-Aug	34	18.05	17.80	22.20	37.10	40.25	38.00	64.20	57.80	52.70	61.80	43.80	71.60	34.50	151.50	89.40	47.90	55.90	27.55	55.00	51.95	17.80	151.50
1-Sep	35	18.08	19.40	23.55	35.00	33.63	65.90	46.25	50.40	56.92	34.21	62.20	36.50	118.25	83.15	48.75	49.50	21.31	52.30	47.52	18.08	118.25	
8-Sep	36	8.50	7.25	16.35	31.35	32.38	53.00	47.90	42.40	54.38	31.00	50.38	33.45	74.90	72.00	42.92	47.44	18.13	41.60	39.18	7.25	74.90	
15-Sep	37	12.15	3.75	15.65	30.75	33.85	45.90	57.70	43.60	48.20	56.30	36.80	56.90	45.40	67.30	73.70	41.75	43.45	18.80	34.20	40.32	3.75	73.70
22-Sep	38	11.95	4.25	17.30	31.50	30.00	38.40	58.30	44.80	47.60	61.00	29.40	57.60	61.40	61.20	77.70	38.40	41.90	18.60	30.15	40.08	4.25	77.70
29-Sep	39	11.20	8.00	20.31	33.75	24.94	34.60	58.70	52.00	43.38	59.38	38.63	63.10	65.25	61.00	81.50	47.25	40.20	25.75	32.94	42.20	8.00	81.50
6-Oct	40	12.15	4.10	22.75	34.95	27.75	44.50	56.90	58.40	46.80	52.80	49.00	65.90	64.80	73.30	50.60	38.45	31.88	37.65	42.93	4.10	73.30	
13-Oct	41	7.45	7.63	22.85	37.80	31.25	59.60	44.05	59.00	50.60	54.40	51.60	68.50	64.50	51.25	45.15	37.60	27.30	40.85	42.30	7.45	68.50	
20-Oct	42	9.70	13.65	25.20	38.20	34.75	60.00	45.50	60.75	55.50	50.20	52.20	68.10	65.10	71.83	59.90	49.88	36.05	27.10	41.20	45.52	9.70	71.83
27-Oct	43	13.95	15.45	29.80	42.20	34.10	59.50	57.40	59.10	52.40	53.40	58.00	61.70	66.90	73.20	66.10	60.90	38.00	26.65	37.05	47.67	13.95	73.20
3-Nov	44	12.45	18.40	33.04	42.96	36.71	49.90	59.30	56.33	50.50	49.50	54.83	64.80	67.42	80.17	80.58	58.46	46.35	31.30	41.13	49.16	12.45	80.58
10-Nov	45	8.40	22.40	32.75	37.50	39.00	48.20	60.90	57.00	46.40	46.60	48.50	67.30	70.38	79.13	82.88	54.90	43.80	33.90	42.60	48.55	8.40	82.88
17-Nov	46	15.60	24.95	34.30	36.10	40.40	51.38	62.30	57.80	35.00	47.50	53.20	69.20	81.70	85.50	79.70	54.15	35.85	34.70	40.80	49.48	15.60	85.50
24-Nov	47	19.84	23.81	34.15	36.75	40.06	52.33	62.83	49.67	32.60	44.88	52.00	67.17	86.33	84.38	76.35	53.75	35.17	34.92	40.50	48.82	19.84	86.33
1-Dec	48	19.40	23.90	34.06	34.94	35.25	52.25	58.05	38.90	22.33	30.88	47.80	62.45	79.95	72.75	60.42	43.06	28.50	31.30	41.			

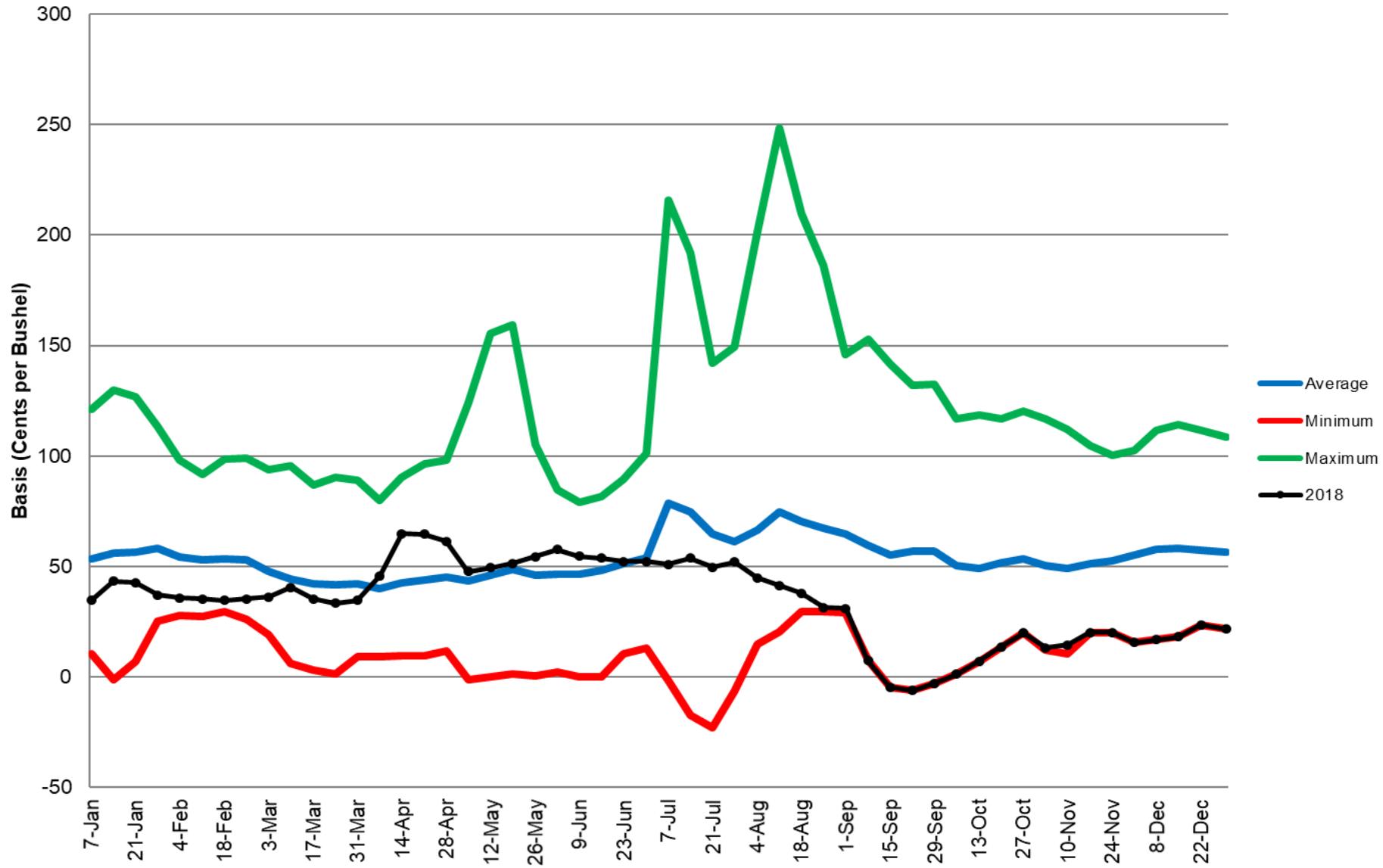
# Nearby Soybean Futures, Gulf Export Price, and Basis

January 2000 - December 2018



# Gulf Export Price - Nearby Soybean Futures Basis

## 2000 - 2018

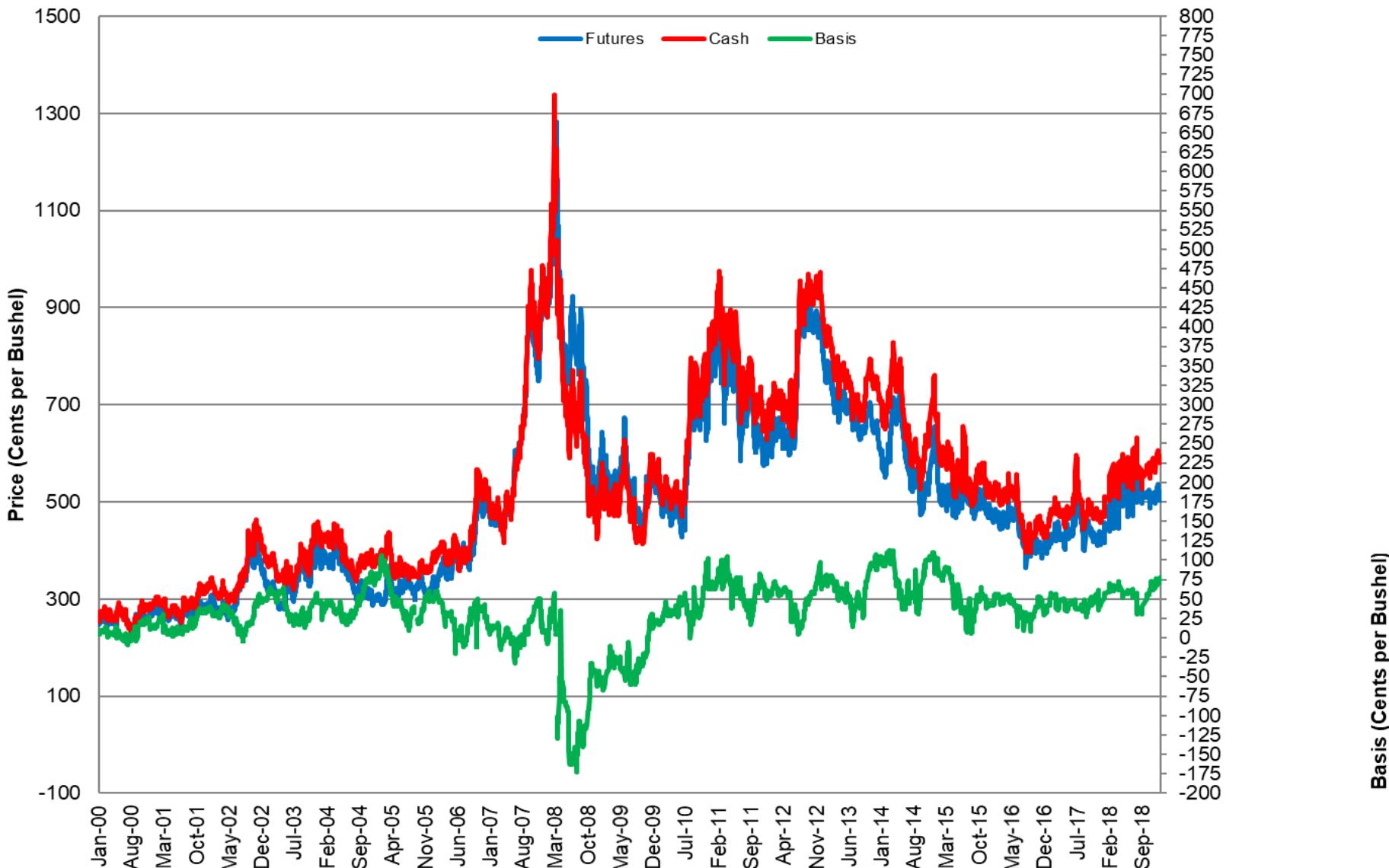


# Soybean Gulf Basis Chart

Soybean Gulf Basis	YEAR	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average	Minimum	Maximum
WEEK																							
7-Jan	1	26.75	32.63	40.13	43.44	37.19	65.20	39.00	32.83	10.33	66.00	51.44	61.30	54.44	121.13	120.88	70.06	70.38	37.38	34.63	53.43	10.33	121.13
14-Jan	2	27.75	35.60	37.90	47.90	35.90	76.60	46.70	23.44	-1.13	77.00	61.70	56.80	62.10	110.80	130.00	79.35	74.15	40.69	43.30	56.13	(1.13)	130.00
21-Jan	3	30.75	40.75	34.63	50.44	27.75	78.50	51.75	28.38	7.13	78.50	60.25	48.88	70.75	102.00	126.75	82.44	72.38	36.63	42.63	56.38	7.13	126.75
28-Jan	4	28.75	41.80	36.40	49.30	33.60	76.80	53.10	25.30	38.00	79.00	60.40	57.30	74.30	102.90	113.20	86.31	72.75	37.85	37.10	58.11	25.30	113.20
4-Feb	5	27.80	36.92	36.83	47.50	39.42	63.20	48.40	28.00	42.00	74.92	53.08	65.00	75.80	86.75	98.00	81.75	61.75	32.45	35.83	54.49	27.80	98.00
11-Feb	6	27.30	37.80	35.70	41.00	42.20	64.20	53.10	32.00	35.70	63.50	61.80	65.50	70.80	80.30	91.80	80.00	57.85	33.70	35.35	53.14	27.30	91.80
18-Feb	7	29.70	38.88	34.25	40.13	37.75	56.60	55.90	33.38	39.38	69.38	58.88	68.70	72.90	78.25	98.75	80.06	55.81	34.85	34.69	53.59	29.70	98.75
25-Feb	8	31.00	41.65	34.20	40.50	31.80	54.13	55.63	26.10	40.13	63.55	62.30	69.25	77.25	79.00	99.00	82.95	48.45	33.38	35.25	52.92	26.10	99.00
3-Mar	9	26.70	36.38	30.33	40.00	31.25	43.50	43.18	19.25	42.38	63.33	47.83	64.19	68.60	80.33	94.00	73.25	37.69	27.65	36.25	47.69	19.25	94.00
10-Mar	10	18.75	26.00	22.40	40.00	26.00	38.50	41.30	9.70	6.30	68.20	52.20	69.70	62.30	90.95	95.75	63.95	39.75	26.95	40.63	44.18	6.30	95.75
17-Mar	11	16.20	27.50	20.40	40.40	31.60	32.50	35.50	3.30	5.40	64.10	53.30	67.60	62.50	78.40	87.10	66.10	42.55	29.25	35.45	42.06	3.30	87.10
24-Mar	12	12.50	30.40	22.00	35.35	28.30	30.20	35.90	1.60	20.63	62.10	50.00	65.20	59.00	68.50	90.50	75.85	42.30	29.10	33.40	41.73	1.60	90.50
31-Mar	13	9.75	35.30	24.25	32.75	33.13	30.83	33.38	9.00	30.50	55.25	46.13	62.50	58.30	73.00	89.00	81.19	39.00	26.63	34.69	42.35	9.00	89.00
7-Apr	14	9.08	27.50	23.50	33.08	29.42	31.08	34.17	13.63	18.92	51.33	40.60	54.33	61.50	79.90	76.67	73.30	37.63	22.88	45.75	40.22	9.08	79.90
14-Apr	15	12.75	26.50	26.70	29.80	26.25	34.00	37.88	9.70	35.50	51.25	34.70	60.90	62.13	90.40	73.10	72.30	37.40	25.06	64.85	42.69	9.70	90.40
21-Apr	16	14.25	29.30	26.20	27.25	25.80	38.40	41.00	9.80	38.60	45.00	38.10	63.30	61.40	96.50	74.75	74.70	36.45	27.75	64.75	43.86	9.80	96.50
28-Apr	17	19.50	30.00	25.60	24.40	26.40	41.50	42.10	11.70	47.90	46.30	41.90	68.63	63.20	98.13	64.70	75.00	38.30	29.10	61.30	45.03	11.70	98.13
5-May	18	10.60	31.00	25.60	22.70	35.60	40.25	29.20	-1.10	26.80	57.00	34.20	64.85	61.85	124.00	76.05	81.95	30.55	31.30	47.69	43.69	(1.10)	124.00
12-May	19	8.20	34.70	26.40	23.40	48.60	40.70	30.60	-0.10	12.10	65.10	42.00	63.10	60.70	155.30	74.40	84.95	17.75	36.88	49.50	46.01	(0.10)	155.30
19-May	20	7.75	42.90	34.60	21.60	52.50	38.80	27.70	1.20	11.70	68.80	53.80	68.50	59.70	159.45	76.80	85.65	22.38	36.50	51.35	48.51	1.20	159.45
26-May	21	10.70	35.80	34.40	19.75	52.10	35.50	28.40	0.70	12.63	72.25	61.30	74.50	54.50	105.20	82.00	80.13	28.13	36.33	54.35	46.25	0.70	105.20
2-Jun	22	19.38	33.25	33.70	22.17	46.10	35.70	31.88	2.38	25.42	62.25	63.30	77.60	56.25	84.70	78.33	80.75	38.25	36.69	57.69	46.62	2.38	84.70
9-Jun	23	20.70	33.25	33.00	23.50	52.70	34.20	33.00	0.30	37.60	59.70	64.80	77.50	64.20	73.30	69.50	78.90	39.40	35.95	54.65	46.64	0.30	78.90
16-Jun	24	29.30	33.90	32.80	24.30	58.38	28.40	33.90	0.10	48.00	59.00	66.00	77.50	64.20	77.20	67.40	81.85	43.80	34.55	53.80	48.13	0.10	81.85
23-Jun	25	31.90	32.90	33.80	31.70	51.20	22.00	39.00	10.60	63.30	63.20	63.20	76.50	63.20	89.50	68.10	85.90	61.55	33.45	52.30	51.23	10.60	89.50
30-Jun	26	33.03	33.90	35.63	34.25	51.50	26.88	41.50	13.23	65.62	63.75	63.38	74.88	67.15	101.25	75.63	87.56	71.56	33.10	52.30	54.00	13.23	101.25
7-Jul	27	34.88	41.47	47.63	43.75	150.00	27.75	40.25	-1.75	64.38	139.50	80.88	85.00	112.19	215.63	156.19	89.31	83.06	29.75	51.06	78.47	(1.75)	215.63
14-Jul	28	39.50	34.30	49.50	45.00	139.00	30.90	43.30	-17.20	63.80	98.50	90.90	84.15	120.20	191.90	164.35	86.40	79.50	24.13	53.90	74.84	(17.20)	191.90
21-Jul	29	42.50	32.50	41.00	40.40	58.00	39.10	50.10	-22.90	60.90	88.00	93.00	82.00	115.00	142.00	135.00	74.60	80.45	30.70	49.60	64.84	(22.90)	142.00
28-Jul	30	42.20	30.80	33.50	37.40	43.00	40.10	49.80	-6.40	58.70	67.60	84.80	79.00	115.10	82.65	149.20	79.10	80.25	44.08	52.15	61.21	(6.40)	149.20
4-Aug	31	37.95	30.23	31.83	39.42	41.50	35.71	49.80	15.00	58.60	102.92	93.29	71.71	104.95	91.42	201.63	75.17	91.25	46.05	44.85	66.49	15.00	201.63
11-Aug	32	37.60	34.40	33.30	45.95	43.60	37.70	48.80	20.50	70.80	155.00	88.65	66.70	90.75	149.90	248.45	248.45	45.10	74.94	20.50	74.94	20.50	248.45
18-Aug	33	35.55	37.10	35.90	45.10	41.85	38.45	51.80	29.75	71.95	112.30	84.95	68.75	89.50	135.80	209.81	72.20	88.30	52.00	38.00	70.48	29.75	209.81
25-Aug	34	37.25	34.55	33.95	40.80	45.20	41.05	53.95	29.75	84.00	75.85	83.55	65.80	96.55	121.30	186.45	75.30	85.65	56.30	31.40	67.30	29.75	186.45
1-Sep	35	34.35	34.85	30.60	44.70	45.38		56.60	29.13	75.20	113.17	65.00	44.75	81.75	95.45	146.10	82.17	96.40	55.61	31.10	64.57	29.13	146.10
8-Sep	36	24.88	32.90	35.00	52.30	39.94		51.50	10.20	77.50	79.38	66.38	17.13	68.70	130.40	152.70	91.00	95.06	41.31	7.45	59.65	7.45	152.70
15-Sep	37	21.20	32.67	32.80	40.70	41.40	39.40	59.20	24.00	66.20	72.80	59.40	10.60	69.00	101.20	141.60	98.85	97.20	42.65	-4.50	55.07	(4.50)	141.60
22-Sep	38	18.10	33.40	35.50	37.00	43.30	42.60	65.40	35.50	88.50	96.30	54.10	17.90	72.90	94.20	132.00	94.20	83.15	46.15	-6.00	57.06	(6.00)	132.00
29-Sep	39	20.30	29.00	35.13	39.50	42.13	42.30	63.80	34.25	74.38	105.50	56.00	26.40	77.50	95.25	132.50	92.56	69.60	43.90	-2.94	56.74	(2.94)	132.50
6-Oct	40	17.70	26.30	30.70	34.00	38.70	43.30	58.60	36.00	53.80	82.30	61.40	43.20	78.70		116.90	86.15	54.60	41.00	1.30	50.26	1.30	116.90
13-Oct	41	18.30	27.75	28.75	35.95	38.10	43.80	39.25	26.50	63.20	86.00	56.50	57.80	78.60	118.50	81.50	46.70	30.95	7.25	49.19	7.25	118.50	
20-Oct	42	19.90	32.20	31.30	36.90	50.00	38.60	46.00	22.75	61.20	84.90	49.60	66.00	75.20	98.83	116.90	73.81	37.35	28.45	13.55	51.76	13.55	116.90
27-Oct	43	25.30	29.20	33.60	38.50	57.60	38.60	59.90	31.20	62.20	82.90	53.60	63.00	77.70	99.30	120.20	71.80	29.15	21.55	20.00	53.44	20.00	120.20
3-Nov	44	19.90	25.42	38.33	35.00	57.67	39.90	52.15	30.13	52.71	70.88	51.08	56.25	86.21	100.42	116.88	67.88	31.15	12.25	13.29	50.39	12.25	116.88
10-Nov	45	14.80	24.40	42.50	28.50	54.70	44.20	49.30	34.00	55.70	57.60	49.90	48.70	92.69	105.31	112.13	70.65	24.95	10.60	14.45	49.21	10.60	112.13
17-Nov	46	21.15	27.30	40.50	35.20	54.90	50.50	44.80	31.10	57.70	53.10	64.30	52.10	96.10	98.80	104.60	69.20	30.55	23.45	20.20	51.34	20.20	104.60
24-Nov	47	21.13	32.50	38.90	39.40	55.75	53.00	50.00	35.83	60.70	47.00	74.00	61.17	99.83	94.13	100.40	63.37	26.83	22.75	20.25	52.47	20.25	100.40
1-Dec	48	23.60	34.70	41.13	39.63	56.25	61.25	55.80	39.80	66.67	47.75												

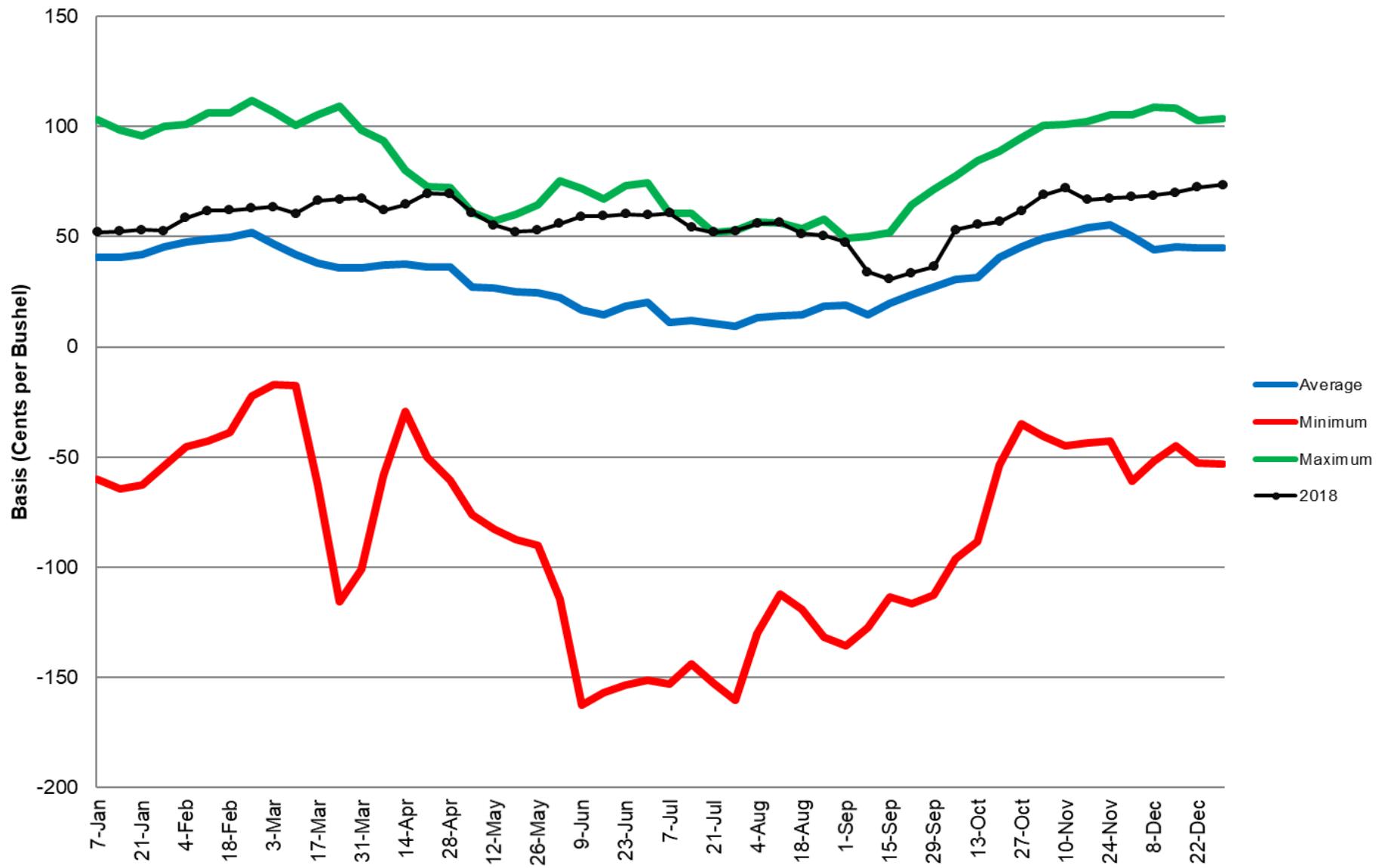
# Nearby Wheat Futures, Gulf Export Price, and Basis

January 2000 - December 2018



# Gulf Export Price - Nearby Wheat Futures Basis

## 2000 - 2018



# Wheat Gulf Basis Chart

Wheat Gulf Basis	YEAR	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average	Minimum	Maximum	
WEEK																								
7-Jan	1	5.60	13.75	36.88	48.38	32.31	77.70	50.63	8.50	8.33	-59.88	19.38	64.10	55.75	79.00	103.13	88.25	44.31	41.88	51.94	40.52	(59.88)	103.13	
14-Jan	2	7.40	13.70	35.30	53.10	34.20	82.50	55.20	12.50	0.00	-64.55	17.00	63.90	56.70	72.60	98.50	95.40	43.50	42.56	52.40	40.63	(64.55)	98.50	
21-Jan	3	9.50	16.13	28.75	59.31	35.50	95.88	59.25	13.88	-5.00	-62.50	19.13	68.25	60.00	69.00	93.38	82.81	50.81	48.31	53.13	41.87	(62.50)	95.88	
28-Jan	4	9.65	19.15	29.80	58.40	38.50	100.10	57.30	15.10	16.00	-54.10	20.90	74.50	64.00	72.90	93.50	81.56	54.40	55.80	52.55	45.26	(54.10)	100.10	
4-Feb	5	8.90	22.25	30.33	61.17	45.83	89.00	50.90	12.75	31.50	-45.17	24.42	82.90	69.90	73.00	100.83	78.38	54.46	55.15	58.54	47.63	(45.17)	100.83	
11-Feb	6	11.20	23.10	30.40	57.40	48.10	89.00	47.00	13.50	23.00	-42.80	30.30	89.40	71.00	79.50	106.30	79.30	52.40	54.85	61.70	48.67	(42.80)	106.30	
18-Feb	7	13.10	26.00	30.75	59.25	43.00	92.50	48.10	16.00	25.00	-39.00	36.25	90.30	67.20	77.38	106.25	79.69	52.44	54.35	62.00	49.50	(39.00)	106.25	
25-Feb	8	12.50	27.10	32.40	58.40	44.20	86.25	45.25	18.70	45.63	-22.30	42.78	93.69	62.75	73.40	111.75	84.85	51.05	56.38	62.80	51.98	(22.30)	111.75	
3-Mar	9	5.20	21.38	30.33	56.33	43.63	85.63	37.58	8.75	35.63	-17.17	32.00	72.38	59.20	66.83	106.75	89.50	49.31	42.35	63.44	46.79	(17.17)	106.75	
10-Mar	10	4.35	16.70	26.70	50.20	43.70	80.60	28.90	-4.60	6.25	-17.40	35.70	67.10	55.50	64.90	100.35	87.05	48.40	38.80	60.44	41.77	(17.40)	100.35	
17-Mar	11	5.70	15.70	32.10	46.30	41.20	71.20	20.13	-13.00	-62.25	-22.80	30.50	77.70	55.70	69.50	105.40	89.45	48.60	45.75	66.30	38.06	(62.25)	105.40	
24-Mar	12	5.50	7.90	38.60	54.40	34.10	63.00	30.40	-6.80	-115.50	-34.80	32.20	84.50	57.30	64.00	109.00	89.55	50.55	48.05	66.95	35.73	(115.50)	109.00	
31-Mar	13	4.75	6.30	41.63	58.25	32.50	55.00	30.25	-3.75	-101.00	-31.50	32.13	98.13	58.90	49.88	93.00	88.31	50.92	49.06	67.44	35.80	(101.00)	98.13	
7-Apr	14	5.08	9.00	36.60	59.25	31.92	55.33	28.50	-2.50	-58.25	-26.50	35.00	93.33	62.25	51.70	80.50	78.05	52.08	49.63	62.00	37.00	(58.25)	93.33	
14-Apr	15	5.45	6.25	39.70	58.40	34.38	42.70	31.25	3.30	-16.35	-29.13	31.50	79.90	63.88	54.10	66.80	75.75	52.45	50.13	64.50	37.63	(29.13)	79.90	
21-Apr	16	8.00	4.90	36.60	59.75	36.10	41.30	32.80	8.20	-49.90	-29.50	32.00	72.70	62.00	61.30	67.88	71.05	54.95	48.75	69.50	36.23	(49.90)	72.70	
28-Apr	17	12.93	11.30	36.80	62.40	34.00	46.25	31.60	13.10	-60.45	-31.50	35.30	71.88	59.50	62.00	72.30	65.13	54.75	43.25	69.30	36.31	(60.45)	72.30	
5-May	18	1.60	5.85	30.30	47.20	36.95	42.00	21.70	4.20	-76.35	-33.45	34.45	48.70	53.60	58.40	58.90	39.35	46.40	36.40	60.88	27.21	(76.35)	60.88	
12-May	19	7.60	8.60	28.20	41.20	23.50	43.90	23.90	4.50	-82.50	-39.30	31.20	57.00	56.00	52.50	57.25	47.60	49.75	39.00	55.25	26.59	(82.50)	57.25	
19-May	20	6.00	9.40	30.30	37.50	21.50	45.20	12.60	3.10	-87.50	-41.90	29.80	60.00	52.90	48.50	52.90	52.55	47.69	42.50	52.15	25.01	(87.50)	60.00	
26-May	21	3.00	9.70	32.80	30.88	25.25	48.63	-4.00	-3.70	-90.00	-39.25	45.00	63.50	33.75	63.00	39.00	64.69	47.31	43.08	52.80	24.50	(90.00)	64.69	
2-Jun	22	-0.75	12.00	26.70	27.00	23.80	44.00	5.38	-1.88	-114.17	-45.25	48.40	75.50	21.75	52.70	45.00	60.33	40.38	46.19	55.88	22.26	(114.17)	75.50	
9-Jun	23	-1.60	9.50	19.40	23.10	18.50	36.30	2.60	-5.10	-162.50	-44.20	44.40	72.00	25.20	52.50	42.00	43.90	35.75	45.70	59.15	16.66	(162.50)	72.00	
16-Jun	24	-3.40	7.00	20.50	27.60	18.38	31.60	-0.80	-28.10	-157.00	-39.00	45.90	67.20	33.50	49.50	45.00	32.85	20.70	43.80	59.30	14.45	(157.00)	67.20	
23-Jun	25	0.20	9.20	22.90	23.40	24.00	27.60	4.00	-16.40	-153.50	-17.00	48.30	73.00	35.80	36.90	55.70	33.25	35.55	43.90	60.20	18.26	(153.50)	73.00	
30-Jun	26	4.48	8.70	16.63	25.00	28.13	33.38	13.75	-15.70	-151.25	-10.75	54.88	74.63	32.45	23.13	71.50	36.25	36.63	44.35	59.80	20.31	(151.25)	74.63	
7-Jul	27	-7.50	6.88	6.13	18.25	25.75	21.13	-4.50	-5.25	-153.13	-48.75	45.88	53.88	13.38	17.69	51.75	37.75	31.31	36.75	60.75	10.95	(153.13)	60.75	
14-Jul	28	-6.30	11.90	8.20	27.80	34.60	17.70	-8.40	-8.20	-144.00	-53.50	41.50	60.50	7.20	35.55	53.10	29.80	31.15	36.63	54.25	12.08	(144.00)	60.50	
21-Jul	29	-0.10	13.30	11.10	26.30	27.80	14.70	-5.00	-4.10	-152.50	-47.10	30.80	49.20	10.00	41.70	51.90	13.00	31.00	36.85	52.00	10.57	(152.50)	52.00	
28-Jul	30	1.10	13.00	6.90	20.60	27.70	17.80	-6.30	0.50	-160.50	-45.90	27.10	43.30	13.50	45.60	51.50	10.80	23.45	37.83	52.55	9.50	(160.50)	52.55	
4-Aug	31	-3.38	12.60	2.50	18.33	32.58	26.83	0.90	0.80	-129.80	-47.08	12.08	44.42	14.10	56.75	54.83	37.25	20.50	41.00	55.95	13.22	(129.80)	56.75	
11-Aug	32	0.30	11.60	8.50	19.10	35.50	37.20	9.70	-3.40	-112.30	-58.50	25.80	37.80	21.50	48.50	54.80	17.70	22.90	35.85	56.40	14.16	(112.30)	56.40	
18-Aug	33	4.00	15.50	4.20	28.50	42.10	36.00	17.40	-3.90	-119.00	-51.80	23.50	34.75	29.30	39.00	53.63	6.00	26.10	36.35	51.45	14.37	(119.00)	53.63	
25-Aug	34	8.70	19.70	11.60	35.80	51.90	35.70	23.40	12.20	-131.50	-38.30	21.00	31.60	38.80	40.20	57.80	7.50	29.85	42.30	50.45	18.35	(131.50)	57.80	
1-Sep	35	9.25	24.90	17.10	31.70	49.08		28.23	10.00	-135.70	-34.75	48.88	31.80	45.50	41.95	38.65	20.38	22.50	43.00	47.45	18.88	(135.70)	49.08	
8-Sep	36	-2.25	13.90	18.20	18.20	50.13		28.00	5.00	-127.50	-33.63	37.50	23.75	44.10	32.10	37.70	33.50	23.31	28.81	33.90	14.71	(127.50)	50.13	
15-Sep	37	2.30	18.33	18.20	15.60	51.90		22.50	31.20	17.00	-113.50	-29.70	34.40	32.90	46.00	51.50	45.00	37.35	27.70	33.00	30.75	19.60	(113.50)	51.90
22-Sep	38	14.20	16.50	20.10	23.70	52.60		21.60	33.10	22.50	-116.50	-31.80	30.40	41.50	49.90	64.30	57.40	48.85	27.60	37.05	33.45	23.50	(116.50)	64.30
29-Sep	39	18.00	20.88	19.00	29.88	60.63		19.60	44.20	22.50	-112.50	-32.75	26.25	49.00	52.00	71.25	69.00	50.81	28.45	42.50	36.44	27.11	(112.50)	71.25
6-Oct	40	17.70	25.20	21.00	29.20	66.00		22.50	43.40	42.00	-96.00	-23.80	30.40	65.50	57.70	77.50	52.70	35.80	51.38	53.00	30.73	(96.00)	77.50	
13-Oct	41	18.60	31.63	26.00	25.30	69.30		29.70	22.30	27.50	-88.50	-24.00	36.50	61.70	58.70	84.63	48.45	40.05	44.90	55.45	31.57	(88.50)	84.63	
20-Oct	42	21.60	32.50	38.60	37.60	74.10		36.10	35.10	36.26	-53.50	-21.00	42.00	60.60	56.90	87.83	88.80	52.94	40.10	44.20	56.75	40.39	(53.50)	88.80
27-Oct	43	18.45	34.60	45.40	41.50	74.80		36.40	38.40	40.00	-34.70	-14.50	53.50	63.70	60.10	94.90	93.60	62.40	42.15	47.25	61.80	45.25	(34.70)	94.90
3-Nov	44	19.30	34.79	43.75	44.58	71.67		46.60	39.00	42.50	-40.42	2.08	63.33	77.80	68.17	95.17	100.50	54.67	52.40	51.80	68.83	49.29	(40.42)	100.50
10-Nov	45	21.40	32.00	43.40	46.80	76.80		53.40	37.20	47.50	-45.00	15.90	74.50	78.30	73.25	92.50	101.00	52.80	49.95	54.95	71.95	51.51	(45.00)	101.00
17-Nov	46	24.30	34.40	53.70	48.30	83.20		54.63	34.00	49.00	-43.50	22.80	93.50	73.20	81.30	93.00	102.10	51.95	47.50	55.00	66.80	53.96	(43.50)	102.10
24-Nov	47	25.50	36.50	51.10	55.60	82.25		56.33	34.67	50.00	-42.80	27.50	94.17	69.17	87.50	103.25	105.30	50.25	47.33	54.67	67.33	55.56	(42.80)	105.30
1-Dec	48	22.90	35.80	48.25	48.88	76.40		55.88	36.40	38.65	-61.00	19.38	78.60	67										

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