August 2000 Production Month

Calculation of HLS pooling price via various methods

1 Koch Posting Plus:

Koch WT/NM Intermediate Posting: Aug 2000:	1-Aug	31-Aug		$28.2419
Platts P-Plus WTI:	26-Jun	25-Jul		3.9190
Platts HLS v. WTI Differential:				
Platts HLS Index:	26-Jun	25-Jul	$ 30.3950	
Platts WTI Cushing:	26-Jun	25-Jul	30.6830	(0.2880)
Total Koch + Pplus: August production				**$31.8729**

2 Platts HLS Index (Trade Month):

Platts HLS Index: August production	26-Jun	25-Jul		**$30.3950**

3 NYMEX Plus Roll

NYMEX daily close: 1st month:	1-Aug	31-Aug		$31.1378
Daily Roll (2/3, 1/3):	21-Jun	20-Jul		1.3818
Platts HLS v. WTI Differential:				
Platts HLS Index:	26-Jun	25-Jul	$ 30.3950	
Platts WTI Cushing:	26-Jun	25-Jul	30.6830	(0.2880)
Total NYMEX + Roll: August production				**$32.2316**

4 NYMEX (No roll)

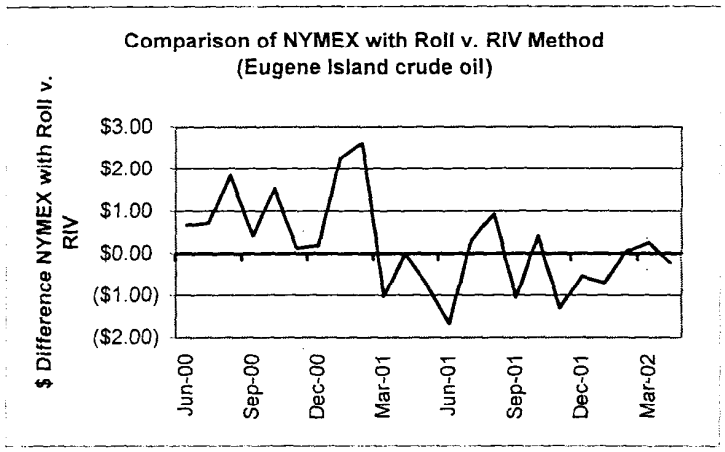
NYMEX daily close: 1st month:	1-Aug	31-Aug		$31.1378
Platts HLS v. WTI Differential:				
Platts HLS Index:	26-Jun	25-Jul	$ 30.3950	
Platts WTI Cushing:	26-Jun	25-Jul	30.6830	(0.2880)
Total NYMEX: August production				**$30.8498**

5 MMS Valuation Regs. (Production Month):

Platts HLS Index: August production	26-Jul	25-Aug		**$30.6009**

Eugene Island Comparison
v. RIV Regulations

Production Month	NYMEX Plus Roll	RIV Methodology	Market Condition	
Jun-00	0.670	-	Backwardated	Rising
Jul-00	0.715	-	Backwardated	Falling
Aug-00	1.840	-	Backwardated	Rising
Sep-00	0.413	-	Backwardated	Rising
Oct-00	1.530	-	Backwardated	Falling
Nov-00	0.128	-	Backwardated	Rising
Dec-00	0.177	-	Backwardated	Falling
Jan-01	2.265	-	Backwardated	Rising
Feb-01	2.618	-	Backwardated	Rising
Mar-01	(1.032)	-	Contango	Falling
Apr-01	0.009	-	Contango	Rising
May-01	(0.756)	-	Contango	Rising
Jun-01	(1.674)	-	Contango	Falling
Jul-01	0.300	-	Backwardated	Falling
Aug-01	0.936	-	Backwardated	Rising
Sep-01	(1.056)	-	Contango	Falling
Oct-01	0.421	-	Contango	Falling
Nov-01	(1.310)	-	Contango	Falling
Dec-01	(0.535)	-	Contango	Falling
Jan-02	(0.699)	-	Contango	Rising
Feb-02	0.050	-	Contango	Rising
Mar-02	0.255	-	Contango	Rising
Apr-02	(0.215)	-	Contango	Rising
May-02	0.437	-	Backwardated	Rising
Jun-02				
Jul-02				
Aug-02				
Sep-02				
Oct-02				
Nov-02				
Dec-02				
Average: 1/99 - present	0.229			
Percentage	67%			
Average: 6/00 - present	0.229			
Percentage	67%			
Average: 6/00 - present	(0.303)			
Percentage				



Positive numbers = Methodology exceeds MMS RIV methodology
(Negative numbers) = MMS RIV methodology exceeds compared methodology
Percentage = Number of months compared methodology exceeded RIV Methodology

Eugene Island Comparison
v.Koch Posting Plus

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Aug-96	-	(1.245)	0.108	(0.797)	(1.038)	Backwardated	Rising
Sep-96	-	(2.794)	0.238	(0.483)	(0.897)	Backwardated	Rising
Oct-96	-	(2.109)	0.056	(0.683)	(0.597)	Backwardated	Rising
Nov-96	-	0.850	0.105	(0.557)	(0.430)	Backwardated	Falling
Dec-96	-	(1.618)	0.082	(0.304)	(0.092)	Backwardated	Rising
Jan-97	-	(0.763)	(0.101)	(0.844)	(0.831)	Backwardated	Rising
Feb-97	-	2.524	0.202	(0.667)	(0.788)	Backwardated	Falling
Mar-97	-	1.644	0.253	(0.267)	(0.538)	Backwardated	Falling
Apr-97	-	1.015	(0.026)	(0.232)	0.183	Contango	Falling
May-97	-	(0.927)	0.154	0.145	0.644	Contango	Rising
Jun-97	-	1.740	0.149	0.169	0.267	Contango	Falling
Jul-97	-	0.219	0.112	0.311	0.615	Contango	Rising
Aug-97	-	(0.097)	0.184	0.320	0.347	Contango	Rising
Sep-97	-	0.488	0.099	0.242	0.003	Contango	Falling
Oct-97	-	(1.584)	(0.021)	0.137	0.180	Contango	Rising
Nov-97	-	1.237	0.113	0.122	0.097	Contango	Falling
Dec-97	-	2.252	0.016	0.184	0.745	Contango	Falling
Jan-98	-	2.000	0.002	0.273	0.107	Contango	Falling
Feb-98	-	0.989	0.041	0.294	0.101	Contango	Falling
Mar-98	-	1.686	0.067	0.341	0.168	Contango	Falling
Apr-98	-	(0.227)	(0.103)	0.371	0.306	Contango	Rising
May-98	-	1.168	0.184	0.618	1.329	Contango	Falling
Jun-98	-	2.352	0.121	0.983	1.476	Contango	Falling
Jul-98	-	0.795	0.007	1.020	1.218	Contango	Rising
Aug-98	-	1.071	(0.150)	0.363	0.468	Contango	Falling
Sep-98	-	(1.007)	(0.033)	0.383	(0.142)	Contango	Rising
Oct-98	-	0.347	(0.056)	0.206	0.478	Contango	Falling
Nov-98	-	1.942	0.111	0.299	0.396	Contango	Falling
Dec-98	-	2.491	0.145	0.489	0.479	Contango	Falling
Jan-99	-	(0.817)	(0.026)	0.479	0.307	Contango	Rising
Feb-99	-	0.543	0.038	0.212	0.200	Contango	Falling
Mar-99	-	(2.472)	0.019	0.146	(0.503)	Contango	Rising
Apr-99	-	(2.953)	0.089	0.188	(0.236)	Backwardated	Rising
May-99	-	(0.864)	(0.014)	(0.051)	(0.120)	Backwardated	Rising
Jun-99	-	(0.112)	0.132	(0.129)	(0.376)	Contango	Rising
Jul-99	-	(2.165)	0.178	0.240	0.232	Contango	Rising
Aug-99	-	(1.361)	0.084	0.182	0.600	Contango	Rising
Sep-99	-	(2.533)	0.121	0.202	(0.483)	Backwardated	Rising
Oct-99	-	0.365	(0.101)	(0.295)	0.215	Backwardated	Falling
Nov-99	-	(2.099)	(0.159)	(0.414)	(0.606)	Backwardated	Rising
Dec-99	-	(1.963)	(0.020)	(0.275)	(0.304)	Backwardated	Rising
Jan-00	-	(1.620)	0.346	(0.594)	(1.691)	Backwardated	Rising
Feb-00	-	(3.437)	(0.056)	(1.138)	(1.043)	Backwardated	Rising
Mar-00	-	(2.218)	(0.041)	(1.282)	(0.930)	Backwardated	Rising
Apr-00	-	3.216	0.190	(1.886)	(1.433)	Backwardated	Falling
May-00	-	(3.916)	(0.374)	(1.245)	(1.089)	Backwardated	Rising
Jun-00	-	(3.590)	0.147	(0.244)	(0.523)	Backwardated	Rising
Jul-00	-	(0.011)	(0.365)	(1.790)	(1.080)	Backwardated	Falling
Aug-00	-	(1.478)	0.359	(1.023)	(1.481)	Backwardated	Rising
Sep-00	-	(3.931)	0.009	(0.497)	(0.404)	Backwardated	Rising
Oct-00	-	0.326	0.186	(1.021)	(1.344)	Backwardated	Falling
Nov-00	-	(2.240)	(0.193)	(0.645)	(0.321)	Backwardated	Rising
Dec-00	-	4.531	0.045	(1.180)	(0.131)	Backwardated	Falling
Jan-01	-	(0.232)	0.135	(0.929)	(2.130)	Backwardated	Rising
Feb-01	-	(2.053)	(0.216)	(1.437)	(2.833)	Backwardated	Rising
Mar-01	-	1.942	0.171	(0.516)	1.203	Contango	Falling
Apr-01	-	(0.018)	0.186	0.222	0.177	Contango	Rising
May-01	-	(1.014)	0.264	0.538	1.020	Contango	Rising
Jun-01	-	1.556	0.052	0.552	1.727	Contango	Falling
Jul-01	-	1.674	(0.041)	0.151	(0.342)	Backwardated	Falling
Aug-01	-	(1.114)	0.014	(0.168)	(0.921)	Backwardated	Rising
Sep-01	-	0.079	(0.904)	(1.600)	0.152	Contango	Falling
Oct-01	-	4.862	0.139	0.290	(0.281)	Contango	Falling
Nov-01	-	2.990	0.001	0.402	1.312	Contango	Falling
Dec-01	-	1.036	(0.013)	0.268	0.522	Contango	Falling
Jan-02	-	(0.342)	0.049	0.420	0.747	Contango	Rising
Feb-02	-	(0.475)	(0.064)	0.405	(0.114)	Contango	Rising
Mar-02	-	(3.854)	(0.098)	0.260	(0.353)	Contango	Rising
Apr-02	-	(2.158)	0.126	0.414	0.341	Contango	Rising
May-02	-	(0.827)	(0.047)	0.062	(0.484)	Backwardated	Rising
Jun-02							
Jul-02							
Aug-02							
Sep-02							
Oct-02							
Nov-02							
Dec-02							
Average: 8/96 - present		(0.204)	0.034	(0.147)	(0.122)		
Percentage		44%	66%	56%	49%		
Average: 1/99 - present		(0.701)	0.009	(0.310)	(0.312)		
Percentage		29%	59%	46%	34%		
Average: 6/00 - present		(0.181)	(0.002)	(0.294)	(0.231)		
Percentage		38%	63%	50%	38%		

Positive numbers = Methodology exceeds Koch Posting Plus methodology
(Negative numbers) = Koch Posting Plus methodology exceeds compared methodology
Percentage = Number of months compared methodology exceeded Koch+ Methodology

Eugene Island Comparison
v NYMEX Pwa Roll

Production Month	Koch Netback	Platts Index (Crack month)	NYMEX Pwa Roll	NYMEX Pwa roll	RIV Methodology	Market Condition
Jun-91		0.866	-	(0.164)	(0.177)	Contango Falling
Jul-91		(0.951)	-	0.089	(0.138)	Backwardated Rising
Aug-91		(0.517)	-	(0.094)	(0.156)	Backwardated Rising
Sep-91		(0.348)	-	(0.032)	0.296	Backwardated Rising
Oct-91		(1.487)	-	(0.113)	(0.047)	Backwardated Falling
Nov-91		0.454	-	(0.215)	0.062	Backwardated Falling
Dec-91		3.036	-	(0.252)	(0.258)	Backwardated Falling
Jan-92		0.896	-	(0.102)	(0.905)	Contango Falling
Feb-92		(0.183)	-	0.089	0.179	Contango Rising
Mar-92		0.277	-	0.173	0.105	Contango Falling
Apr-92		(1.258)	-	0.198	(0.053)	Contango Rising
May-92		(0.919)	-	0.087	(0.184)	Contango Rising
Jun-92		(1.264)	-	0.685	3.824	Backwardated Rising
Jul-92		0.567	-	(0.008)	0.003	Backwardated Falling
Aug-92		0.345	-	(0.119)	(0.126)	Backwardated Falling
Sep-92		(0.582)	-	(0.130)	(0.139)	Backwardated Rising
Oct-92		(0.092)	-	(0.161)	0.001	Backwardated Falling
Nov-92		1.418	-	(0.082)	0.264	Contango Falling
Dec-92		1.082	-	0.023	(0.015)	Contango Falling
Jan-93		0.268	-	0.089	(0.278)	Contango Falling
Feb-93		(0.251)	-	0.160	0.265	Contango Rising
Mar-93		(0.254)	-	0.065	(0.022)	Contango Rising
Apr-93		0.107	-	0.107	(0.048)	Contango Falling
May-93		0.466	-	0.214	0.464	Contango Falling
Jun-93		1.166	-	0.261	0.304	Contango Falling
Jul-93		1.822	-	0.310	0.357	Contango Falling
Aug-93		0.322	-	0.362	0.310	Contango Rising
Sep-93		0.639	-	0.400	0.522	Contango Falling
Oct-93		(0.253)	-	0.368	0.584	Contango Rising
Nov-93		1.801	-	0.219	0.514	Contango Falling
Dec-93		2.651	-	0.322	0.487	Contango Falling
Jan-94		0.038	-	0.464	0.100	Contango Rising
Feb-94		0.574	-	0.310	0.846	Contango Falling
Mar-94		0.378	-	0.102	0.258	Contango Falling
Apr-94		(1.481)	-	0.121	(0.023)	Backwardated Rising
May-94		(1.878)	-	(0.000)	(0.132)	Backwardated Rising
Jun-94		(1.788)	-	(0.404)	(1.340)	Backwardated Rising
Jul-94		(1.342)	-	(0.618)	(1.088)	Backwardated Rising
Aug-94		1.039	-	(0.508)	0.832	Backwardated Falling
Sep-94		1.048	-	(0.270)	(0.670)	Contango Falling
Oct-94		(0.225)	-	0.144	0.180	Contango Rising
Nov-94		(0.298)	-	0.137	0.637	Backwardated Rising
Dec-94		0.846	-	(0.119)	(0.076)	Contango Falling
Jan-95		(0.798)	-	0.034	(0.115)	Backwardated Rising
Feb-95		(0.899)	-	(0.083)	(0.364)	Backwardated Rising
Mar-95		(0.323)	-	(0.223)	(0.417)	Backwardated Rising
Apr-95		(1.823)	-	(0.137)	(0.089)	Backwardated Rising
May-95		(0.352)	-	(0.252)	0.916	Backwardated Falling
Jun-95		1.217	-	(0.329)	(0.004)	Backwardated Falling
Jul-95		1.210	-	(0.196)	(0.139)	Backwardated Falling
Aug-95		(0.663)	-	(0.222)	(0.460)	Backwardated Rising
Sep-95		(0.521)	-	(0.264)	(0.640)	Backwardated Rising
Oct-95		0.409	-	(0.462)	(0.375)	Backwardated Falling
Nov-95		(0.851)	-	(0.261)	(0.419)	Backwardated Rising
Dec-95		(1.501)	-	(0.319)	(0.532)	Backwardated Rising
Jan-96		(0.308)	-	(0.402)	0.466	Backwardated Falling
Feb-96		(0.228)	-	(0.398)	(0.839)	Backwardated Rising
Mar-96		(3.082)	-	(0.587)	(0.903)	Backwardated Rising
Apr-96		(3.785)	-	(1.297)	(1.468)	Backwardated Rising
May-96		(0.158)	-	(2.469)	(2.234)	Backwardated Falling
Jun-96		(0.388)	-	(1.464)	(1.537)	Backwardated Falling
Jul-96		(1.917)	-	(1.052)	(0.733)	Backwardated Rising
Aug-96	(0.109)	(1.353)		(0.905)	(1.146)	Backwardated Rising
Sep-96	(0.238)	(3.032)		(0.722)	(1.135)	Backwardated Rising
Oct-96	(0.056)	(2.165)		(0.736)	(0.652)	Backwardated Rising
Nov-96	(0.105)	0.745		(0.662)	(0.526)	Backwardated Falling
Dec-96	(0.082)	(1.700)		(0.365)	(0.174)	Backwardated Rising
Jan-97	0.101	(0.662)		(0.743)	(0.726)	Backwardated Rising
Feb-97	(0.203)	2.522		(0.668)	(0.882)	Backwardated Falling
Mar-97	(0.253)	1.391		(0.520)	(0.791)	Backwardated Falling
Apr-97	0.024	1.041		(0.206)	0.209	Contango Falling
May-97	(0.154)	(1.061)		(0.009)	0.480	Contango Rising
Jun-97	(0.149)	1.581		0.020	0.116	Contango Falling
Jul-97	(0.112)	0.107		0.200	0.503	Contango Rising
Aug-97	(0.184)	(0.281)		0.137	0.184	Contango Rising
Sep-97	(0.099)	0.369		0.143	(0.085)	Contango Falling
Oct-97	0.021	(1.563)		0.157	0.291	Contango Rising
Nov-97	(0.113)	1.134		0.008	(0.018)	Contango Falling
Dec-97	(0.014)	2.236		0.168	0.729	Contango Falling
Jan-98	(0.002)	1.897		0.271	0.105	Contango Falling
Feb-98	(0.041)	0.948		0.254	0.961	Contango Falling
Mar-98	(0.087)	1.819		0.275	0.161	Contango Falling
Apr-98	0.165	(0.124)		0.474	0.409	Contango Rising
May-98	(0.164)	0.864		0.434	1.146	Contango Falling
Jun-98	(0.121)	2.231		0.882	1.355	Contango Falling
Jul-98	(0.007)	0.788		1.012	1.211	Contango Rising
Aug-98	0.150	1.221		0.512	0.616	Contango Falling
Sep-98	0.033	(0.874)		0.415	(0.109)	Contango Rising
Oct-98	0.056	0.403		0.362	0.534	Contango Falling
Nov-98	(0.111)	1.830		0.188	0.284	Contango Falling
Dec-98	(0.145)	2.346		0.344	0.333	Contango Falling
Jan-99	0.026	(0.791)		0.205	0.333	Contango Rising
Feb-99	(0.038)	0.505		0.174	0.162	Contango Falling
Mar-99	(0.018)	(2.481)		0.127	(0.322)	Contango Rising
Apr-99	(0.088)	(3.043)		0.099	(0.325)	Backwardated Rising
May-99	0.014	(0.650)		(0.037)	(0.108)	Backwardated Rising
Jun-99	(0.132)	(0.244)		(0.281)	(0.508)	Contango Rising
Jul-99	(0.179)	(2.343)		0.099	0.054	Contango Rising
Aug-99	(0.084)	(1.445)		0.099	0.516	Contango Rising
Sep-99	(0.121)	(2.653)		0.081	(0.804)	Backwardated Rising
Oct-99	0.101	0.466		(0.193)	0.317	Backwardated Falling
Nov-99	0.159	(1.340)		(0.256)	(0.447)	Backwardated Rising
Dec-99	0.020	(1.843)		(0.258)	(0.285)	Backwardated Rising
Jan-00	(0.346)	(1.888)		(0.840)	(2.037)	Backwardated Rising
Feb-00	0.056	(3.380)		(1.062)	(0.994)	Backwardated Rising
Mar-00	0.041	(3.177)		(1.241)	(0.846)	Backwardated Rising
Apr-00	(0.180)	3.026		(2.077)	(1.823)	Backwardated Falling
May-00	0.374	(3.547)		(0.471)	(0.715)	Backwardated Rising
Jun-00	(0.147)	(3.737)		(0.381)	(0.670)	Backwardated Rising
Jul-00	0.365	0.355		(1.424)	(0.715)	Backwardated Falling
Aug-00	(0.359)	(1.837)		(1.382)	(1.840)	Backwardated Rising
Sep-00	(0.009)	(3.941)		(0.508)	(0.413)	Backwardated Rising
Oct-00	(0.186)	0.140		(1.267)	(1.530)	Backwardated Falling
Nov-00	0.183	(2.047)		(0.452)	(0.139)	Backwardated Rising
Dec-00	(0.843)	4.486		(1.228)	(0.177)	Backwardated Falling
Jan-01	(0.135)	(0.367)		(1.083)	(2.385)	Backwardated Falling
Feb-01	0.216	(1.838)		(1.221)	(2.618)	Backwardated Rising
Mar-01	(0.177)	1.771		(0.897)	1.052	Contango Falling
Apr-01	(0.186)	(0.204)		0.035	(0.008)	Contango Rising
May-01	(0.264)	(1.278)		0.275	0.756	Contango Rising
Jun-01	(0.052)	1.503		0.502	1.874	Contango Falling
Jul-01	0.041	1.715		0.192	(0.300)	Backwardated Falling
Aug-01	(0.014)	(1.128)		(0.183)	(0.329)	Backwardated Rising
Sep-01	0.804	0.962		(0.496)	1.056	Contango Falling
Oct-01	(0.138)	4.723		0.151	(0.421)	Contango Falling
Nov-01	(0.001)	2.869		0.400	1.310	Contango Falling
Dec-01	0.013	1.048		0.391	0.535	Contango Falling
Jan-02	(0.049)	(0.398)		0.571	0.899	Contango Rising
Feb-02	0.084	(0.411)		0.468	(0.060)	Contango Rising
Mar-02	0.088	(2.757)		0.957	(0.256)	Contango Rising
Apr-02	(0.139)	(2.253)		0.268	0.215	Contango Rising
May-02	0.047	(0.780)		0.110	(0.437)	Backwardated Rising
Jun-02						
Jul-02						
Aug-02						
Sep-02						
Oct-02						
Nov-02						
Dec-02						
Average: 5/91 - present	(0.004)	(0.180)		(0.167)	(0.148)	
Percentage	34%	45%		45%	42%	
Average: 1/98 - present	(0.009)	(0.710)		(0.318)	(0.321)	
Percentage	41%	37%		49%	32%	
Average: 8/00 - present	0.002	(0.179)		(0.282)	(0.239)	
Percentage	58%	42%		50%	33%	

Positive numbers = Methodology exceeds NYMEX (Roll) methodology
Oversave numbers) = NYMEX (Roll) methodology exceeds actuals/rec methodology
Percentage = Number of months compared methodology exceeded NYMEX (Roll) Methodology

Eugene Island Comparison
v. RIV Regulations

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Jun-91		1.043	0.177	0.013	-	Contango	Falling
Jul-91		(0.815)	0.136	0.236	-	Backwardated	Rising
Aug-91		(0.362)	0.156	0.062	-	Backwardated	Rising
Sep-91		(0.642)	(0.296)	(0.378)	-	Backwardated	Rising
Oct-91		(1.451)	0.047	(0.066)	-	Backwardated	Rising
Nov-91		0.391	(0.062)	(0.278)	-	Backwardated	Falling
Dec-91		3.295	0.259	0.008	-	Backwardated	Falling
Jan-92		1.502	0.605	0.503	-	Contango	Falling
Feb-92		(0.362)	(0.179)	(0.089)	-	Contango	Rising
Mar-92		0.172	(0.105)	0.068	-	Contango	Falling
Apr-92		(1.205)	0.053	0.250	-	Contango	Rising
May-92		(0.752)	0.164	0.261	-	Contango	Rising
Jun-92		(1.808)	(0.524)	(0.429)	-	Backwardated	Rising
Jul-92		0.595	(0.003)	(0.011)	-	Backwardated	Falling
Aug-92		0.469	0.126	0.007	-	Backwardated	Falling
Sep-92		(0.379)	0.189	0.059	-	Backwardated	Rising
Oct-92		(0.092)	(0.001)	(0.182)	-	Backwardated	Falling
Nov-92		1.156	(0.264)	(0.356)	-	Contango	Falling
Dec-92		1.106	0.015	0.038	-	Contango	Falling
Jan-93		0.668	0.279	0.377	-	Contango	Falling
Feb-93		(1.216)	(0.265)	(0.105)	-	Contango	Rising
Mar-93		(0.232)	0.022	0.087	-	Contango	Rising
Apr-93		0.156	0.048	0.155	-	Contango	Falling
May-93		0.004	(0.484)	(0.270)	-	Contango	Falling
Jun-93		0.860	(0.304)	(0.043)	-	Contango	Falling
Jul-93		1.265	(0.357)	(0.047)	-	Contango	Falling
Aug-93		0.012	(0.310)	0.073	-	Contango	Rising
Sep-93		0.317	(0.522)	(0.122)	-	Contango	Falling
Oct-93		(0.811)	(0.558)	(0.190)	-	Contango	Rising
Nov-93		1.287	(0.514)	(0.295)	-	Contango	Falling
Dec-93		2.194	(0.497)	(0.175)	-	Contango	Falling
Jan-94		(0.061)	(0.100)	0.304	-	Contango	Rising
Feb-94		(0.322)	(0.646)	(0.336)	-	Contango	Falling
Mar-94		0.119	(0.258)	(0.157)	-	Contango	Falling
Apr-94		(1.468)	0.023	0.143	-	Backwardated	Rising
May-94		(1.745)	0.132	0.102	-	Backwardated	Rising
Jun-94		(0.447)	1.340	0.935	-	Backwardated	Rising
Jul-94		(0.294)	1.068	0.452	-	Backwardated	Rising
Aug-94		0.208	(0.832)	(1.440)	-	Backwardated	Falling
Sep-94		1.723	0.675	0.405	-	Contango	Falling
Oct-94		(0.405)	(0.180)	(0.035)	-	Contango	Rising
Nov-94		(0.925)	(0.637)	(0.499)	-	Backwardated	Rising
Dec-94		0.922	0.076	(0.043)	-	Contango	Falling
Jan-95		(0.653)	0.115	0.149	-	Backwardated	Rising
Feb-95		(0.331)	0.364	0.281	-	Backwardated	Rising
Mar-95		0.094	0.417	0.194	-	Backwardated	Rising
Apr-95		(1.523)	0.099	(0.038)	-	Backwardated	Rising
May-95		(0.368)	(0.016)	(0.268)	-	Backwardated	Falling
Jun-95		1.222	0.004	(0.324)	-	Backwardated	Falling

Eugene Island Comparison
v. RIV Regulations

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Jul-95		1.348	0.139	(0.057)	-	Backwardated	Falling
Aug-95		(0.223)	0.460	0.238	-	Backwardated	Rising
Sep-95		0.119	0.640	0.356	-	Backwardated	Rising
Oct-95		0.783	0.375	(0.087)	-	Backwardated	Falling
Nov-95		(0.432)	0.419	0.137	-	Backwardated	Rising
Dec-95		(0.969)	0.532	0.213	-	Backwardated	Rising
Jan-96		(0.788)	(0.480)	(0.881)	-	Backwardated	Falling
Feb-96		0.410	0.639	0.041	-	Backwardated	Rising
Mar-96		(2.159)	0.903	0.316	-	Backwardated	Rising
Apr-96		(2.318)	1.468	0.071	-	Backwardated	Rising
May-96		2.078	2.234	(0.235)	-	Backwardated	Falling
Jun-96		1.149	1.537	0.077	-	Backwardated	Falling
Jul-96		(1.184)	0.733	(0.319)	-	Backwardated	Rising
Aug-96	1.038	(0.207)	1.146	0.241	-	Backwardated	Rising
Sep-96	0.897	(1.897)	1.135	0.413	-	Backwardated	Rising
Oct-96	0.597	(1.513)	0.652	(0.086)	-	Backwardated	Rising
Nov-96	0.430	1.280	0.535	(0.126)	-	Backwardated	Falling
Dec-96	0.092	(1.526)	0.174	(0.212)	-	Backwardated	Rising
Jan-97	0.831	0.068	0.729	(0.013)	-	Backwardated	Rising
Feb-97	0.788	3.312	0.990	0.121	-	Backwardated	Falling
Mar-97	0.538	2.182	0.791	0.271	-	Backwardated	Falling
Apr-97	(0.183)	0.832	(0.209)	(0.416)	-	Contango	Falling
May-97	(0.644)	(1.571)	(0.490)	(0.499)	-	Contango	Rising
Jun-97	(0.267)	1.473	(0.118)	(0.098)	-	Contango	Falling
Jul-97	(0.615)	(0.396)	(0.503)	(0.303)	-	Contango	Rising
Aug-97	(0.347)	(0.444)	(0.164)	(0.027)	-	Contango	Rising
Sep-97	(0.003)	0.484	0.095	0.239	-	Contango	Falling
Oct-97	(0.180)	(1.764)	(0.201)	(0.044)	-	Contango	Rising
Nov-97	(0.097)	1.140	0.016	0.025	-	Contango	Falling
Dec-97	(0.745)	1.507	(0.729)	(0.561)	-	Contango	Falling
Jan-98	(0.107)	1.892	(0.105)	0.166	-	Contango	Falling
Feb-98	(0.101)	0.887	(0.061)	0.193	-	Contango	Falling
Mar-98	(0.168)	1.518	(0.101)	0.174	-	Contango	Falling
Apr-98	(0.306)	(0.533)	(0.409)	0.065	-	Contango	Rising
May-98	(1.329)	(0.162)	(1.146)	(0.712)	-	Contango	Falling
Jun-98	(1.476)	0.876	(1.355)	(0.493)	-	Contango	Falling
Jul-98	(1.218)	(0.423)	(1.211)	(0.199)	-	Contango	Rising
Aug-98	(0.468)	0.603	(0.618)	(0.105)	-	Contango	Falling
Sep-98	0.142	(0.866)	0.109	0.524	-	Contango	Rising
Oct-98	(0.478)	(0.131)	(0.534)	(0.273)	-	Contango	Falling
Nov-98	(0.396)	1.546	(0.284)	(0.096)	-	Contango	Falling
Dec-98	(0.479)	2.012	(0.333)	0.011	-	Contango	Falling
Jan-99	(0.307)	(1.124)	(0.333)	0.172	-	Contango	Rising
Feb-99	(0.200)	0.343	(0.162)	0.012	-	Contango	Falling
Mar-99	0.503	(1.969)	0.522	0.648	-	Contango	Rising
Apr-99	0.236	(2.718)	0.325	0.424	-	Backwardated	Rising
May-99	0.120	(0.744)	0.106	0.069	-	Backwardated	Rising
Jun-99	0.376	0.264	0.508	0.247	-	Contango	Rising
Jul-99	(0.232)	(2.397)	(0.054)	0.014	-	Contango	Rising
Aug-99	(0.600)	(1.961)	(0.516)	(0.417)	-	Contango	Rising

Eugene Island Comparison
v. RIV Regulations

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Sep-99	0.483	(2.050)	0.604	0.685	-	Backwardated	Rising
Oct-99	(0.215)	0.150	(0.317)	(0.510)	-	Backwardated	Falling
Nov-99	0.606	(1.493)	0.447	0.192	-	Backwardated	Rising
Dec-99	0.304	(1.658)	0.285	0.029	-	Backwardated	Rising
Jan-00	1.691	0.071	2.037	1.097	-	Backwardated	Rising
Feb-00	1.043	(2.394)	0.986	(0.096)	-	Backwardated	Rising
Mar-00	0.930	(1.288)	0.888	(0.352)	-	Backwardated	Rising
Apr-00	1.433	4.648	1.623	(0.454)	-	Backwardated	Falling
May-00	1.089	(2.827)	0.715	(0.156)	-	Backwardated	Rising
Jun-00	0.523	(3.067)	0.670	0.279	-	Backwardated	Rising
Jul-00	1.080	1.070	0.715	(0.709)	-	Backwardated	Falling
Aug-00	1.481	0.003	1.840	0.458	-	Backwardated	Rising
Sep-00	0.404	(3.528)	0.413	(0.093)	-	Backwardated	Rising
Oct-00	1.344	1.671	1.530	0.323	-	Backwardated	Falling
Nov-00	0.321	(1.919)	0.128	(0.324)	-	Backwardated	Rising
Dec-00	0.131	4.663	0.177	(1.049)	-	Backwardated	Falling
Jan-01	2.130	1.897	2.265	1.200	-	Backwardated	Rising
Feb-01	2.833	0.780	2.618	1.397	-	Backwardated	Rising
Mar-01	(1.203)	0.739	(1.032)	(1.719)	-	Contango	Falling
Apr-01	(0.177)	(0.195)	0.009	0.045	-	Contango	Rising
May-01	(1.020)	(2.034)	(0.756)	(0.482)	-	Contango	Rising
Jun-01	(1.727)	(0.171)	(1.674)	(1.174)	-	Contango	Falling
Jul-01	0.342	2.015	0.300	0.493	-	Backwardated	Falling
Aug-01	0.921	(0.193)	0.936	0.753	-	Backwardated	Rising
Sep-01	(0.152)	(0.074)	(1.056)	(1.752)	-	Contango	Falling
Oct-01	0.281	5.144	0.421	0.571	-	Contango	Falling
Nov-01	(1.312)	1.679	(1.310)	(0.910)	-	Contango	Falling
Dec-01	(0.522)	0.514	(0.535)	(0.253)	-	Contango	Falling
Jan-02	(0.747)	(1.089)	(0.699)	(0.327)	-	Contango	Rising
Feb-02	0.114	(0.361)	0.050	0.519	-	Contango	Rising
Mar-02	0.353	(3.502)	0.255	0.613	-	Contango	Rising
Apr-02	(0.341)	(2.498)	(0.215)	0.074	-	Contango	Rising
May-02	0.484	(0.343)	0.437	0.547	-	Backwardated	Rising
Jun-02							
Jul-02							
Aug-02							
Sep-02							
Oct-02							
Nov-02							
Dec-02							
Average: 6/91 - present	0.122	(0.044)	0.146	(0.022)			
Percentage	51%	47%	58%	52%			
Average: 1/99 - present	0.312	(0.389)	0.321	0.002			

Eugene Island Comparison
v. RIV Regulations

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition
Percentage	66%	39%	68%	59%		
Average: 6/00 - present	0.231	0.050	0.229	(0.063)		
Percentage	63%	46%	67%	54%		

Positive numbers = Methodology exceeds MMS RIV methodology
(Negative numbers) = MMS RIV methodology exceeds compared methodology
Percentage = Number of months compared methodology exceeded RIV Methodology

Eugene Island Comparison
of Valuations

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology
Jun-91		20.1521	19.2857	19.1220	19.1088
Jul-91		19.1088	20.0599	20.1591	19.9235
Aug-91		19.9235	20.4408	20.3470	20.2852
Sep-91		20.2852	20.6311	20.5494	20.9275
Oct-91		20.9275	22.4249	22.3121	22.3783
Nov-91		22.3783	21.9247	21.7094	21.9869
Dec-91		21.9869	18.9505	18.7000	18.6918
Jan-92		18.6918	17.7941	17.6921	17.1895
Feb-92		17.1895	17.3730	17.4622	17.5517
Mar-92		17.5517	17.2746	17.4475	17.3795
Apr-92		17.3795	18.6376	18.8352	18.5850
May-92		18.5850	19.5010	19.5977	19.3368
Jun-92		19.3368	20.6208	20.7153	21.1446
Jul-92		21.1446	20.5472	20.5387	20.5498
Aug-92		20.5498	20.2069	20.0874	20.0805
Sep-92		20.0805	20.6487	20.5189	20.4598
Oct-92		20.4598	20.5514	20.3705	20.5523
Nov-92		20.5523	19.1328	19.0405	19.3965
Dec-92		19.3965	18.3050	18.3280	18.2903
Jan-93		18.2903	17.9008	17.9997	17.6223
Feb-93		17.6223	18.5733	18.7333	18.8382
Mar-93		18.8382	19.0926	19.1577	19.0703
Apr-93		19.0703	18.9628	19.0695	18.9148
May-93		18.9148	18.4273	18.6413	18.9111
Jun-93		18.9111	17.7470	18.0084	18.0514
Jul-93		18.0514	16.4292	16.7394	16.7861
Aug-93		16.7861	16.4644	16.8469	16.7743
Sep-93		16.7743	15.9353	16.3357	16.4576
Oct-93		16.4576	16.7106	17.0783	17.2686
Nov-93		17.2686	15.4675	15.6865	15.9818
Dec-93		15.9818	13.2909	13.6133	13.7882
Jan-94		13.7882	13.7489	14.1533	13.8493
Feb-94		13.8493	13.5252	13.8352	14.1714
Mar-94		14.1714	13.7936	13.8953	14.0520
Apr-94		14.0520	15.5429	15.6636	15.5203
May-94		15.5203	17.3966	17.3669	17.2648
Jun-94		17.2648	19.0510	18.6466	17.7114
Jul-94		17.7114	19.0733	18.4575	18.0058
Aug-94		18.0058	16.9663	16.3581	17.7980
Sep-94		17.7980	16.7500	16.4798	16.0748
Oct-94		16.0748	16.3000	16.4442	16.4795
Nov-94		16.4795	16.7677	16.9051	17.4045
Dec-94		17.4045	16.5587	16.4400	16.4830
Jan-95		16.4830	17.2509	17.2846	17.1360
Feb-95		17.1360	17.8316	17.7483	17.4674

Eugene Island Comparison
of Valuations

Mar-95		17.4674	17.7905	17.5679	17.3738
Apr-95		17.3738	18.9965	18.8591	18.8971
May-95		18.8971	19.2493	18.9974	19.2652
Jun-95		19.2652	18.0480	17.7193	18.0435
Jul-95		18.0435	16.8338	16.6378	16.6953
Aug-95		16.6953	17.3778	17.1556	16.9178
Sep-95		16.9178	17.4389	17.1552	16.7993
Oct-95		16.7993	16.3907	15.9287	16.0159
Nov-95		16.0159	16.8671	16.5857	16.4483
Dec-95		16.4483	17.9490	17.6300	17.4173
Jan-96		17.4173	17.7261	17.3245	18.2057
Feb-96		18.2057	18.4341	17.8363	17.7953
Mar-96		17.7953	20.8572	20.2699	19.9538
Apr-96		19.9538	23.7390	22.3421	22.2714
May-96		22.2714	22.4277	19.9589	20.1936
Jun-96		20.1936	20.5813	19.1221	19.0448
Jul-96		19.0448	20.9613	19.9098	20.2285
Aug-96	21.4738	20.2285	21.5817	20.6764	20.4357
Sep-96	23.2295	20.4357	23.4676	22.7460	22.3330
Oct-96	24.4423	22.3330	24.4978	23.7595	23.8455
Nov-96	22.9958	23.8455	23.1006	22.4391	22.5655
Dec-96	24.1835	22.5655	24.2652	23.8798	24.0916
Jan-97	24.8547	24.0916	24.7533	24.0105	24.0238
Feb-97	21.4999	24.0238	21.7019	20.8333	20.7121
Mar-97	19.0682	20.7121	19.3214	18.8014	18.5305
Apr-97	17.5151	18.5305	17.4893	17.2828	17.6984
May-97	18.6253	17.6984	18.7790	18.7701	19.2695
Jun-97	17.5298	19.2695	17.6789	17.6989	17.7966
Jul-97	17.5781	17.7966	17.6900	17.8895	18.1926
Aug-97	18.2895	18.1926	18.4732	18.6100	18.6369
Sep-97	18.1490	18.6369	18.2477	18.3912	18.1525
Oct-97	19.7364	18.1525	19.7157	19.8730	19.9169
Nov-97	18.6800	19.9169	18.7933	18.8017	18.7770
Dec-97	16.5251	18.7770	16.5411	16.7095	17.2703
Jan-98	15.2707	17.2703	15.2731	15.5438	15.3782
Feb-98	14.3892	15.3782	14.4298	14.6837	14.4907
Mar-98	12.8051	14.4907	12.8719	13.1466	12.9730
Apr-98	13.1995	12.9730	13.0968	13.5708	13.5057
May-98	12.3378	13.5057	12.5214	12.9557	13.6673
Jun-98	11.3153	13.6673	11.4363	12.2983	12.7915
Jul-98	11.9966	12.7915	12.0036	13.0161	13.2148
Aug-98	12.1435	13.2148	11.9938	12.5062	12.6116
Sep-98	13.6187	12.6116	13.5861	14.0015	13.4771
Oct-98	13.1301	13.4771	13.0742	13.3357	13.6083
Nov-98	11.6665	13.6083	11.7779	11.9657	12.0622
Dec-98	9.5711	12.0622	9.7163	10.0605	10.0497
Jan-99	10.8669	10.0497	10.8411	11.3458	11.1737
Feb-99	10.6310	11.1737	10.6688	10.8432	10.8311
Mar-99	13.3028	10.8311	13.3219	13.4485	12.8003

Eugene Island Comparison
of Valuations

Apr-99	15.7536	12.8003	15.8430	15.9419	15.5180
May-99	16.3819	15.5180	16.3683	16.3310	16.2623
Jun-99	16.3742	16.2623	16.5061	16.2452	15.9980
Jul-99	18.1633	15.9980	18.3413	18.4089	18.3953
Aug-99	19.7564	18.3953	19.8403	19.9386	20.3559
Sep-99	22.8887	20.3559	23.0092	23.0904	22.4055
Oct-99	22.0406	22.4055	21.9392	21.7457	22.2560
Nov-99	24.3546	22.2560	24.1959	23.9405	23.7486
Dec-99	25.7113	23.7486	25.6918	25.4361	25.4071
Jan-00	27.0273	25.4071	27.3733	26.4332	25.3363
Feb-00	28.7732	25.3363	28.7167	27.6351	27.7307
Mar-00	29.9487	27.7307	29.9075	28.6668	29.0190
Apr-00	25.8035	29.0190	25.9936	23.9171	24.3707
May-00	28.2865	24.3707	27.9128	27.0419	27.1977
Jun-00	30.7876	27.1977	30.9342	30.5436	30.2645
Jul-00	30.2754	30.2645	29.9100	28.4858	29.1950
Aug-00	30.6729	29.1950	31.0317	29.6498	29.1917
Sep-00	33.1231	29.1917	33.1324	32.6266	32.7195
Oct-00	32.3932	32.7195	32.5793	31.3723	31.0489
Nov-00	33.2891	31.0489	33.0959	32.6444	32.9683
Dec-00	28.4373	32.9683	28.4826	27.2573	28.3058
Jan-01	28.5380	28.3058	28.6730	27.6085	26.4083
Feb-01	28.4618	26.4083	28.2460	27.0252	25.6285
Mar-01	23.6867	25.6285	23.8574	23.1704	24.8895
Apr-01	24.9077	24.8895	25.0938	25.1293	25.0845
May-01	26.0982	25.0845	26.3620	26.6366	27.1184
Jun-01	25.5627	27.1184	25.6152	26.1148	27.2893
Jul-01	25.6157	27.2893	25.5742	25.7667	25.2740
Aug-01	26.3881	25.2740	26.4026	26.2201	25.4670
Sep-01	25.3885	25.4670	24.4847	23.7890	25.5408
Oct-01	20.6787	25.5408	20.8179	20.9685	20.3973
Nov-01	17.4072	20.3973	17.4085	17.8088	18.7187
Dec-01	17.6831	18.7187	17.6702	17.9516	18.2048
Jan-02	18.5466	18.2048	18.5951	18.9664	19.2938
Feb-02	19.7690	19.2938	19.7048	20.1741	19.6550
Mar-02	23.5091	19.6550	23.4116	23.7690	23.1565
Apr-02	25.3140	23.1565	25.4399	25.7284	25.6545
May-02	26.4819	25.6545	26.4345	26.5443	25.9976
Jun-02	2.4705	25.9976	(0.7454)	(1.4386)	0.0000
Jul-02	0.0000	0.0000	0.0000	0.0000	0.0000
Aug-02	0.0000	0.0000	0.0000	0.0000	0.0000
Sep-02	0.0000	0.0000	0.0000	0.0000	0.0000
Oct-02	0.0000	0.0000	0.0000	0.0000	0.0000
Nov-02	0.0000	0.0000	0.0000	0.0000	0.0000
Dec-02	0.0000	0.0000	0.0000	0.0000	0.0000

Eugene Island Calculations
Koch + P Plus Methodology

Production Month	Trading Period		Koch Posting WT/NM Intermediate	Platts P-Plus WTI	Total Koch + P plus	Platts Eugene Island v. Cushing Differential	Koch Netback
Aug-96	26-Jun	25-Jul	20.3710	2.3328	22.7038	(1.2300)	21.4738
Sep-96	26-Jul	25-Aug	22.2500	2.1655	24.4155	(1.1860)	23.2295
Oct-96	26-Aug	25-Sep	23.3468	2.2225	25.5693	(1.1270)	24.4423
Nov-96	26-Sep	25-Oct	21.9917	2.1166	24.1083	(1.1125)	22.9958
Dec-96	26-Oct	25-Nov	23.3871	2.0405	25.4276	(1.2440)	24.1835
Jan-97	26-Nov	25-Dec	23.4839	2.5408	26.0247	(1.1700)	24.8547
Feb-97	26-Dec	25-Jan	20.4732	2.3655	22.8387	(1.3388)	21.4999
Mar-97	26-Jan	25-Feb	19.0806	2.1602	21.2408	(2.1726)	19.0682
Apr-97	26-Feb	25-Mar	18.1083	1.8508	19.9591	(2.4440)	17.5151
May-97	26-Mar	25-Apr	18.9758	1.7514	20.7272	(2.1018)	18.6253
Jun-97	26-Apr	25-May	17.1750	1.8735	19.0485	(1.5188)	17.5298
Jul-97	26-May	25-Jun	17.5242	1.8234	19.3476	(1.7695)	17.5781
Aug-97	26-Jun	25-Jul	17.7581	1.8671	19.6252	(1.3357)	18.2895
Sep-97	26-Jul	25-Aug	17.6250	1.9105	19.5355	(1.3864)	18.1490
Oct-97	26-Aug	25-Sep	19.1694	1.9727	21.1421	(1.4057)	19.7364
Nov-97	26-Sep	25-Oct	17.9917	2.1067	20.0984	(1.4183)	18.6800
Dec-97	26-Oct	25-Nov	16.1774	1.9582	18.1356	(1.6105)	16.5251
Jan-98	26-Nov	25-Dec	14.5565	1.8979	16.4544	(1.1837)	15.2707
Feb-98	26-Dec	25-Jan	13.8750	1.9111	15.7861	(1.3968)	14.3892
Mar-98	26-Jan	25-Feb	12.7581	1.9450	14.7031	(1.8980)	12.8051
Apr-98	26-Feb	25-Mar	13.1250	1.9685	15.0935	(1.8940)	13.1995
May-98	26-Mar	25-Apr	12.5242	1.7919	14.3161	(1.9783)	12.3378
Jun-98	26-Apr	25-May	11.0583	1.6283	12.6866	(1.3712)	11.3153
Jul-98	26-May	25-Jun	11.5081	1.5578	13.0659	(1.0693)	11.9966
Aug-98	26-Jun	25-Jul	10.8790	2.1403	13.0193	(0.8758)	12.1435
Sep-98	26-Jul	25-Aug	12.3917	2.1975	14.5892	(0.9705)	13.6187
Oct-98	26-Aug	25-Sep	11.8710	2.3384	14.2094	(1.0793)	13.1301
Nov-98	26-Sep	25-Oct	10.3417	2.3985	12.7402	(1.0738)	11.6665
Dec-98	26-Oct	25-Nov	8.5968	2.2248	10.8216	(1.2504)	9.5711
Jan-99	26-Nov	25-Dec	9.8387	2.1692	12.0079	(1.1411)	10.8669
Feb-99	26-Dec	25-Jan	9.2857	2.5232	11.8089	(1.1779)	10.6310
Mar-99	26-Jan	25-Feb	12.0403	2.4961	14.5364	(1.2336)	13.3028
Apr-99	26-Feb	25-Mar	14.6583	2.4558	17.1141	(1.3605)	15.7536
May-99	26-Mar	25-Apr	15.2581	2.5638	17.8219	(1.4400)	16.3819
Jun-99	26-Apr	25-May	15.3833	2.6657	18.0490	(1.6748)	16.3742
Jul-99	26-May	25-Jun	17.3790	2.4711	19.8501	(1.6868)	18.1633
Aug-99	26-Jun	25-Jul	18.5161	2.5808	21.0969	(1.3405)	19.7564
Sep-99	26-Jul	25-Aug	20.9417	2.6457	23.5874	(0.6987)	22.8887
Oct-99	26-Aug	25-Sep	19.9113	3.0583	22.9696	(0.9290)	22.0406
Nov-99	26-Sep	25-Oct	22.2417	2.9388	25.1805	(0.8260)	24.3546
Dec-99	26-Oct	25-Nov	23.2177	3.1461	26.3638	(0.6525)	25.7113
Jan-00	26-Nov	25-Dec	24.0484	3.5600	27.6084	(0.5811)	27.0273
Feb-00	26-Dec	25-Jan	26.5345	3.9011	30.4356	(1.6624)	28.7732
Mar-00	26-Jan	25-Feb	27.1935	3.9827	31.1762	(1.2275)	29.9487
Apr-00	26-Feb	25-Mar	22.7667	4.6565	27.4232	(1.6198)	25.8035
May-00	26-Mar	25-Apr	26.2984	3.7521	30.0505	(1.7640)	28.2865
Jun-00	26-Apr	25-May	28.7917	2.9823	31.7740	(0.9864)	30.7876

Eugene Island Calculations
Koch + P Plus Methodology

Jul-00	26-May	25-Jun	27.1774	4.3285	31.5059	(1.2305)	30.2754
Aug-00	26-Jun	25-Jul	28.2419	3.9190	32.1609	(1.4880)	30.6729
Sep-00	26-Jul	25-Aug	30.8583	3.5052	34.3635	(1.2404)	33.1231
Oct-00	26-Aug	25-Sep	29.9597	3.9935	33.9532	(1.5600)	32.3932
Nov-00	26-Sep	25-Oct	31.4500	3.4577	34.9077	(1.6186)	33.2891
Dec-00	26-Oct	25-Nov	25.3790	4.1995	29.5785	(1.1413)	28.4373
Jan-01	26-Nov	25-Dec	26.4032	3.7858	30.1890	(1.6510)	28.5380
Feb-01	26-Dec	25-Jan	26.7054	4.3760	31.0814	(2.6195)	28.4618
Mar-01	26-Jan	25-Feb	24.2339	3.5538	27.7877	(4.1010)	23.6867
Apr-01	26-Feb	25-Mar	24.4917	2.9078	27.3995	(2.4918)	24.9077
May-01	26-Mar	25-Apr	25.5323	2.6134	28.1457	(2.0475)	26.0982
Jun-01	26-Apr	25-May	24.4250	2.6077	27.0327	(1.4700)	25.5627
Jul-01	26-May	25-Jun	23.3629	2.9528	26.3157	(0.7000)	25.6157
Aug-01	26-Jun	25-Jul	24.1048	3.3724	27.4772	(1.0890)	26.3881
Sep-01	26-Jul	25-Aug	23.3583	3.9266	27.2849	(1.8964)	25.3885
Oct-01	26-Aug	25-Sep	19.0242	2.9008	21.9250	(1.2463)	20.6787
Nov-01	26-Sep	25-Oct	16.4667	2.8011	19.2678	(1.8607)	17.4072
Dec-01	26-Oct	25-Nov	16.2823	2.8529	19.1352	(1.4521)	17.6831
Jan-02	26-Nov	25-Dec	16.5161	2.7898	19.3059	(0.7593)	18.5466
Feb-02	26-Dec	25-Jan	17.6071	2.7436	20.3507	(0.5817)	19.7690
Mar-02	26-Jan	25-Feb	21.3306	2.8515	24.1821	(0.6730)	23.5091
Apr-02	26-Feb	25-Mar	22.9500	2.8938	25.8438	(0.5297)	25.3140
May-02	26-Mar	25-Apr	23.7903	3.1005	26.8908	(0.4089)	26.4819
Jun-02	26-Apr	25-May	0.0000	3.9090	3.9090	(1.4386)	2.4705
Jul-02	26-May	25-Jun	0.0000	0.0000	0.0000	0.0000	0.0000
Aug-02	26-Jun	25-Jul	0.0000	0.0000	0.0000	0.0000	0.0000
Sep-02	26-Jul	25-Aug	0.0000	0.0000	0.0000	0.0000	0.0000
Oct-02	26-Aug	25-Sep	0.0000	0.0000	0.0000	0.0000	0.0000
Nov-02	26-Sep	25-Oct	0.0000	0.0000	0.0000	0.0000	0.0000
Dec-02	26-Oct	25-Nov	0.0000	0.0000	0.0000	0.0000	0.0000

Eugene Island Calculations
Platts Eugene Island Index (Trade Month) Methodology

Production Month	Period		Platts Eugene Island (Trade Month)
Jun-91	26-Apr	25-May	20.1521
Jul-91	26-May	25-Jun	19.1088
Aug-91	26-Jun	25-Jul	19.9235
Sep-91	26-Jul	25-Aug	20.2852
Oct-91	26-Aug	25-Sep	20.9275
Nov-91	26-Sep	25-Oct	22.3783
Dec-91	26-Oct	25-Nov	21.9869
Jan-92	26-Nov	25-Dec	18.6918
Feb-92	26-Dec	25-Jan	17.1895
Mar-92	26-Jan	25-Feb	17.5517
Apr-92	26-Feb	25-Mar	17.3795
May-92	26-Mar	25-Apr	18.5850
Jun-92	26-Apr	25-May	19.3368
Jul-92	26-May	25-Jun	21.1446
Aug-92	26-Jun	25-Jul	20.5498
Sep-92	26-Jul	25-Aug	20.0805
Oct-92	26-Aug	25-Sep	20.4598
Nov-92	26-Sep	25-Oct	20.5523
Dec-92	26-Oct	25-Nov	19.3965
Jan-93	26-Nov	25-Dec	18.2903
Feb-93	26-Dec	25-Jan	17.6223
Mar-93	26-Jan	25-Feb	18.8382
Apr-93	26-Feb	25-Mar	19.0703
May-93	26-Mar	25-Apr	18.9148
Jun-93	26-Apr	25-May	18.9111
Jul-93	26-May	25-Jun	18.0514
Aug-93	26-Jun	25-Jul	16.7861
Sep-93	26-Jul	25-Aug	16.7743
Oct-93	26-Aug	25-Sep	16.4576
Nov-93	26-Sep	25-Oct	17.2686
Dec-93	26-Oct	25-Nov	15.9818
Jan-94	26-Nov	25-Dec	13.7882
Feb-94	26-Dec	25-Jan	13.8493
Mar-94	26-Jan	25-Feb	14.1714
Apr-94	26-Feb	25-Mar	14.0520
May-94	26-Mar	25-Apr	15.5203
Jun-94	26-Apr	25-May	17.2648
Jul-94	26-May	25-Jun	17.7114
Aug-94	26-Jun	25-Jul	18.0058
Sep-94	26-Jul	25-Aug	17.7980
Oct-94	26-Aug	25-Sep	16.0748
Nov-94	26-Sep	25-Oct	16.4795
Dec-94	26-Oct	25-Nov	17.4045
Jan-95	26-Nov	25-Dec	16.4830
Feb-95	26-Dec	25-Jan	17.1360

Eugene Island Calculations
Platts Eugene Island Index (Trade Month) Methodology

Mar-95	26-Jan	25-Feb	17.4674
Apr-95	26-Feb	25-Mar	17.3738
May-95	26-Mar	25-Apr	18.8971
Jun-95	26-Apr	25-May	19.2652
Jul-95	26-May	25-Jun	18.0435
Aug-95	26-Jun	25-Jul	16.6953
Sep-95	26-Jul	25-Aug	16.9178
Oct-95	26-Aug	25-Sep	16.7993
Nov-95	26-Sep	25-Oct	16.0159
Dec-95	26-Oct	25-Nov	16.4483
Jan-96	26-Nov	25-Dec	17.4173
Feb-96	26-Dec	25-Jan	18.2057
Mar-96	26-Jan	25-Feb	17.7953
Apr-96	26-Feb	25-Mar	19.9538
May-96	26-Mar	25-Apr	22.2714
Jun-96	26-Apr	25-May	20.1936
Jul-96	26-May	25-Jun	19.0448
Aug-96	26-Jun	25-Jul	20.2285
Sep-96	26-Jul	25-Aug	20.4357
Oct-96	26-Aug	25-Sep	22.3330
Nov-96	26-Sep	25-Oct	23.8455
Dec-96	26-Oct	25-Nov	22.5655
Jan-97	26-Nov	25-Dec	24.0916
Feb-97	26-Dec	25-Jan	24.0238
Mar-97	26-Jan	25-Feb	20.7121
Apr-97	26-Feb	25-Mar	18.5305
May-97	26-Mar	25-Apr	17.6984
Jun-97	26-Apr	25-May	19.2695
Jul-97	26-May	25-Jun	17.7966
Aug-97	26-Jun	25-Jul	18.1926
Sep-97	26-Jul	25-Aug	18.6369
Oct-97	26-Aug	25-Sep	18.1525
Nov-97	26-Sep	25-Oct	19.9169
Dec-97	26-Oct	25-Nov	18.7770
Jan-98	26-Nov	25-Dec	17.2703
Feb-98	26-Dec	25-Jan	15.3782
Mar-98	26-Jan	25-Feb	14.4907
Apr-98	26-Feb	25-Mar	12.9730
May-98	26-Mar	25-Apr	13.5057
Jun-98	26-Apr	25-May	13.6673
Jul-98	26-May	25-Jun	12.7915
Aug-98	26-Jun	25-Jul	13.2148
Sep-98	26-Jul	25-Aug	12.6116
Oct-98	26-Aug	25-Sep	13.4771
Nov-98	26-Sep	25-Oct	13.6083
Dec-98	26-Oct	25-Nov	12.0622
Jan-99	26-Nov	25-Dec	10.0497
Feb-99	26-Dec	25-Jan	11.1737
Mar-99	26-Jan	25-Feb	10.8311

Eugene Island Calculations
Platts Eugene Island Index (Trade Month) Methodology

Apr-99	26-Feb	25-Mar	12.8003
May-99	26-Mar	25-Apr	15.5180
Jun-99	26-Apr	25-May	16.2623
Jul-99	26-May	25-Jun	15.9980
Aug-99	26-Jun	25-Jul	18.3953
Sep-99	26-Jul	25-Aug	20.3559
Oct-99	26-Aug	25-Sep	22.4055
Nov-99	26-Sep	25-Oct	22.2560
Dec-99	26-Oct	25-Nov	23.7486
Jan-00	26-Nov	25-Dec	25.4071
Feb-00	26-Dec	25-Jan	25.3363
Mar-00	26-Jan	25-Feb	27.7307
Apr-00	26-Feb	25-Mar	29.0190
May-00	26-Mar	25-Apr	24.3707
Jun-00	26-Apr	25-May	27.1977
Jul-00	26-May	25-Jun	30.2645
Aug-00	26-Jun	25-Jul	29.1950
Sep-00	26-Jul	25-Aug	29.1917
Oct-00	26-Aug	25-Sep	32.7195
Nov-00	26-Sep	25-Oct	31.0489
Dec-00	26-Oct	25-Nov	32.9683
Jan-01	26-Nov	25-Dec	28.3058
Feb-01	26-Dec	25-Jan	26.4083
Mar-01	26-Jan	25-Feb	25.6285
Apr-01	26-Feb	25-Mar	24.8895
May-01	26-Mar	25-Apr	25.0845
Jun-01	26-Apr	25-May	27.1184
Jul-01	26-May	25-Jun	27.2893
Aug-01	26-Jun	25-Jul	25.2740
Sep-01	26-Jul	25-Aug	25.4670
Oct-01	26-Aug	25-Sep	25.5408
Nov-01	26-Sep	25-Oct	20.3973
Dec-01	26-Oct	25-Nov	18.7187
Jan-02	26-Nov	25-Dec	18.2048
Feb-02	26-Dec	25-Jan	19.2938
Mar-02	26-Jan	25-Feb	19.6550
Apr-02	26-Feb	25-Mar	23.1565
May-02	26-Mar	25-Apr	25.6545
Jun-02	26-Apr	25-May	25.9976
Jul-02	26-May	25-Jun	0.0000
Aug-02	26-Jun	25-Jul	0.0000
Sep-02	26-Jul	25-Aug	0.0000
Oct-02	26-Aug	25-Sep	0.0000
Nov-02	26-Sep	25-Oct	0.0000
Dec-02	26-Oct	25-Nov	0.0000

Eugene Island Calculations
NYMEX Plus Daily Roll Methodology

Production Month	Trading Period		NYMEX (1st month)	Trading Period		"Forward Roll"	Trading Period		Eugene Island v. Cushing Difference	Total NYMEX Plus Roll
Jun-91	1-Jun	30-Jun	20.2025	23-Apr	21-May	0.1637	26-Apr	25-May	(1 0805)	19.2857
Jul-91	1-Jul	31-Jul	21.4282	22-May	20-Jun	(0.0992)	26-May	25-Jun	(1.2690)	20.0599
Aug-91	1-Aug	31-Aug	21.6823	21-Jun	22-Jul	0.0938	26-Jun	25-Jul	(1.3353)	20.4408
Sep-91	1-Sep	30-Sep	21.8570	23-Jul	20-Aug	0.0817	26-Jul	25-Aug	(1.3076)	20.6311
Oct-91	1-Oct	31-Oct	23.2296	21-Aug	20-Sep	0.1129	26-Aug	25-Sep	(0.9175)	22.4249
Nov-91	1-Nov	30-Nov	22.4315	21-Sep	22-Oct	0.2153	26-Sep	25-Oct	(0.7221)	21.9247
Dec-91	1-Dec	31-Dec	19.5314	23-Oct	20-Nov	0.2505	26-Oct	25-Nov	(0.8314)	18.9505
Jan-92	1-Jan	31-Jan	18.8200	21-Nov	19-Dec	0.1020	26-Nov	25-Dec	(1.1279)	17.7941
Feb-92	1-Feb	29-Feb	19.0053	20-Dec	21-Jan	(0.0892)	26-Dec	25-Jan	(1.5431)	17.3730
Mar-92	1-Mar	31-Mar	18.9482	22-Jan	20-Feb	(0.1729)	26-Jan	25-Feb	(1.5007)	17.2746
Apr-92	1-Apr	30-Apr	20.2567	21-Feb	20-Mar	(0.1976)	26-Feb	25-Mar	(1.4214)	18.6376
May-92	1-May	31-May	20.9965	21-Mar	21-Apr	(0.0967)	26-Mar	25-Apr	(1.3988)	19.5010
Jun-92	1-Jun	30-Jun	22.0700	22-Apr	19-May	(0.0945)	26-Apr	25-May	(1.3548)	20.6208
Jul-92	1-Jul	31-Jul	21.7300	20-May	22-Jun	0.0086	26-May	25-Jun	(1.1913)	20.5472
Aug-92	1-Aug	31-Aug	21.2867	23-Jun	21-Jul	0.1195	26-Jun	25-Jul	(1.1993)	20.2069
Sep-92	1-Sep	30-Sep	21.9157	22-Jul	20-Aug	0.1298	26-Jul	25-Aug	(1.3968)	20.6487
Oct-92	1-Oct	31-Oct	21.7068	21-Aug	22-Sep	0.1809	26-Aug	25-Sep	(1.3364)	20.5514
Nov-92	1-Nov	30-Nov	20.3647	23-Sep	20-Oct	0.0923	26-Sep	25-Oct	(1.3243)	19.1328
Dec-92	1-Dec	31-Dec	19.4300	21-Oct	20-Nov	(0.0230)	26-Oct	25-Nov	(1.1020)	18.3050
Jan-93	1-Jan	31-Jan	19.0725	21-Nov	18-Dec	(0.0989)	26-Nov	25-Dec	(1.0728)	17.9008
Feb-93	1-Feb	28-Feb	20.0758	19-Dec	20-Jan	(0.1600)	26-Dec	25-Jan	(1.3425)	18.5733
Mar-93	1-Mar	31-Mar	20.3455	21-Jan	22-Feb	(0.0652)	26-Jan	25-Feb	(1.1877)	19.0926
Apr-93	1-Apr	30-Apr	20.3252	23-Feb	22-Mar	(0.1067)	26-Feb	25-Mar	(1.2558)	18.9628
May-93	1-May	31-May	19.9790	23-Mar	20-Apr	(0.2140)	26-Mar	25-Apr	(1.3378)	18.4273
Jun-93	1-Jun	30-Jun	19.1336	21-Apr	20-May	(0.2614)	26-Apr	25-May	(1.1252)	17.7470
Jul-93	1-Jul	31-Jul	17.8957	21-May	22-Jun	(0.3102)	26-May	25-Jun	(1.1564)	16.4292
Aug-93	1-Aug	31-Aug	18.0132	23-Jun	20-Jul	(0.3825)	26-Jun	25-Jul	(1.1663)	16.4644
Sep-93	1-Sep	30-Sep	17.5205	21-Jul	20-Aug	(0.4004)	26-Jul	25-Aug	(1.1848)	15.9353
Oct-93	1-Oct	31-Oct	18.1729	21-Aug	21-Sep	(0.3678)	26-Aug	25-Sep	(1.0945)	16.7106
Nov-93	1-Nov	30-Nov	16.7370	22-Sep	20-Oct	(0.2190)	26-Sep	25-Oct	(1.0505)	15.4675
Dec-93	1-Dec	31-Dec	14.5329	21-Oct	19-Nov	(0.3224)	26-Oct	25-Nov	(0.9195)	13.2909
Jan-94	1-Jan	31-Jan	15.0210	20-Nov	20-Dec	(0.4044)	26-Nov	25-Dec	(0.8676)	13.7489
Feb-94	1-Feb	28-Feb	14.7816	21-Dec	20-Jan	(0.3100)	26-Dec	25-Jan	(0.9464)	13.5252
Mar-94	1-Mar	31-Mar	14.6539	21-Jan	22-Feb	(0.1017)	26-Jan	25-Feb	(0.7586)	13.7936
Apr-94	1-Apr	30-Apr	16.3263	23-Feb	22-Mar	(0.1207)	26-Feb	25-Mar	(0.6627)	15.5429

Eugene Island Calculations
NYMEX Plus Daily Roll Methodology

May-94	1-May	31-May	17.8262	23-Mar	20-Apr	0.0297	26-Mar	25-Apr	(0.4592)	17.3966
Jun-94	1-Jun	30-Jun	19.0686	21-Apr	20-May	0.4044	26-Apr	25-May	(0.4220)	19.0510
Jul-94	1-Jul	31-Jul	19.6570	21-May	21-Jun	0.6159	26-May	25-Jun	(1.1995)	19.0733
Aug-94	1-Aug	31-Aug	17.8846	22-Jun	20-Jul	0.6082	26-Jun	25-Jul	(1.5265)	16.9663
Sep-94	1-Sep	30-Sep	17.4671	21-Jul	22-Aug	0.2703	26-Jul	25-Aug	(0.9874)	16.7500
Oct-94	1-Oct	31-Oct	17.7114	23-Aug	20-Sep	(0.1442)	26-Aug	25-Sep	(1.2673)	16.3000
Nov-94	1-Nov	30-Nov	18.0960	21-Sep	20-Oct	(0.1374)	26-Sep	25-Oct	(1.1909)	16.7677
Dec-94	1-Dec	31-Dec	17.1562	21-Oct	18-Nov	0.1187	26-Oct	25-Nov	(0.7162)	16.5587
Jan-95	1-Jan	31-Jan	17.9933	19-Nov	20-Dec	(0.0337)	26-Nov	25-Dec	(0.7088)	17.2509
Feb-95	1-Feb	28-Feb	18.5347	21-Dec	20-Jan	0.0833	26-Dec	25-Jan	(0.7864)	17.8316
Mar-95	1-Mar	31-Mar	18.5543	21-Jan	21-Feb	0.2225	26-Jan	25-Feb	(0.9864)	17.7905
Apr-95	1-Apr	30-Apr	19.8879	22-Feb	21-Mar	0.1373	26-Feb	25-Mar	(1.0288)	18.9965
May-95	1-May	31-May	19.7405	22-Mar	20-Apr	0.2519	26-Mar	25-Apr	(0.7431)	19.2493
Jun-95	1-Jun	30-Jun	18.4005	21-Apr	22-May	0.3286	26-Apr	25-May	(0.6811)	18.0480
Jul-95	1-Jul	31-Jul	17.2568	23-May	20-Jun	0.1960	26-May	25-Jun	(0.5190)	16.8338
Aug-95	1-Aug	31-Aug	17.8126	21-Jun	20-Jul	0.2222	26-Jun	25-Jul	(0.6570)	17.3778
Sep-95	1-Sep	30-Sep	18.2080	21-Jul	22-Aug	0.2838	26-Jul	25-Aug	(1.0528)	17.4389
Oct-95	1-Oct	31-Oct	17.3977	23-Aug	20-Sep	0.4620	26-Aug	25-Sep	(1.4690)	16.3907
Nov-95	1-Nov	30-Nov	17.9980	21-Sep	20-Oct	0.2814	26-Sep	25-Oct	(1.4123)	16.8671
Dec-95	1-Dec	31-Dec	19.0375	21-Oct	17-Nov	0.3190	26-Oct	25-Nov	(1.4075)	17.9490
Jan-96	1-Jan	31-Jan	18.7005	18-Nov	19-Dec	0.4017	26-Nov	25-Dec	(1.3760)	17.7261
Feb-96	1-Feb	29-Feb	18.7825	20-Dec	22-Jan	0.5978	26-Dec	25-Jan	(0.9462)	18.4341
Mar-96	1-Mar	31-Mar	21.1819	23-Jan	20-Feb	0.5873	26-Jan	25-Feb	(0.9120)	20.8572
Apr-96	1-Apr	30-Apr	23.2943	21-Feb	20-Mar	1.3968	26-Feb	25-Mar	(0.9521)	23.7390
May-96	1-May	31-May	21.0918	21-Mar	22-Apr	2.4688	26-Mar	25-Apr	(1.1330)	22.4277
Jun-96	1-Jun	30-Jun	20.4295	23-Apr	21-May	1.4592	26-Apr	25-May	(1.3074)	20.5813
Jul-96	1-Jul	31-Jul	21.2505	22-May	20-Jun	1.0516	26-May	25-Jun	(1.3407)	20.9613
Aug-96	1-Aug	31-Aug	21.9064	21-Jun	22-Jul	0.9053	26-Jun	25-Jul	(1.2300)	21.5817
Sep-96	1-Sep	30-Sep	23.9320	23-Jul	20-Aug	0.7216	26-Jul	25-Aug	(1.1860)	23.4676
Oct-96	1-Oct	31-Oct	24.8865	21-Aug	20-Sep	0.7383	26-Aug	25-Sep	(1.1270)	24.4978
Nov-96	1-Nov	30-Nov	23.5516	21-Sep	22-Oct	0.6615	26-Sep	25-Oct	(1.1125)	23.1006
Dec-96	1-Dec	31-Dec	25.1238	23-Oct	20-Nov	0.3854	26-Oct	25-Nov	(1.2440)	24.2652
Jan-97	1-Jan	31-Jan	25.1805	21-Nov	19-Dec	0.7428	26-Nov	25-Dec	(1.1700)	24.7533
Feb-97	1-Feb	28-Feb	22.1721	20-Dec	21-Jan	0.8686	26-Dec	25-Jan	(1.3388)	21.7019
Mar-97	1-Mar	31-Mar	20.9740	22-Jan	20-Feb	0.5200	26-Jan	25-Feb	(2.1726)	19.3214
Apr-97	1-Apr	30-Apr	19.7268	21-Feb	20-Mar	0.2065	26-Feb	25-Mar	(2.4440)	17.4893
May-97	1-May	31-May	20.8719	21-Mar	22-Apr	0.0089	26-Mar	25-Apr	(2.1018)	18.7790
Jun-97	1-Jun	30-Jun	19.2176	23-Apr	20-May	(0.0200)	26-Apr	25-May	(1.5188)	17.6789
Jul-97	1-Jul	31-Jul	19.6591	21-May	20-Jun	(0.1995)	26-May	25-Jun	(1.7695)	17.6900
Aug-97	1-Aug	31-Aug	19.9457	21-Jun	22-Jul	(0.1368)	26-Jun	25-Jul	(1.3357)	18.4732

Eugene Island Calculations
NYMEX Plus Daily Roll Methodology

Sep-97	1-Sep	30-Sep	19.7776	23-Jul	20-Aug	(0.1435)	26-Jul	25-Aug	(1 3864)	18.2477
Oct-97	1-Oct	31-Oct	21.2787	21-Aug	22-Sep	(0.1573)	26-Aug	25-Sep	(1.4057)	19.7157
Nov-97	1-Nov	30-Nov	20.2200	23-Sep	21-Oct	(0.0084)	26-Sep	25-Oct	(1.4183)	18.7933
Dec-97	1-Dec	31-Dec	18.3200	22-Oct	20-Nov	(0.1685)	26-Oct	25-Nov	(1.6105)	16.5411
Jan-98	1-Jan	31-Jan	16.7275	21-Nov	19-Dec	(0.2707)	26-Nov	25-Dec	(1.1837)	15.2731
Feb-98	1-Feb	28-Feb	16.0805	20-Dec	20-Jan	(0.2539)	26-Dec	25-Jan	(1.3968)	14.4298
Mar-98	1-Mar	31-Mar	15.0445	21-Jan	20-Feb	(0.2747)	26-Jan	25-Feb	(1.8980)	12.8719
Apr-98	1-Apr	30-Apr	15.4648	21-Feb	20-Mar	(0.4740)	26-Feb	25-Mar	(1.8940)	13.0968
May-98	1-May	31-May	14.9340	21-Mar	21-Apr	(0.4343)	26-Mar	25-Apr	(1.9783)	12.5214
Jun-98	1-Jun	30-Jun	13.6695	22-Apr	19-May	(0.8620)	26-Apr	25-May	(1.3712)	11.4363
Jul-98	1-Jul	31-Jul	14.0855	20-May	22-Jun	(1.0125)	26-May	25-Jun	(1.0693)	12.0036
Aug-98	1-Aug	31-Aug	13.3819	23-Jun	21-Jul	(0.5123)	26-Jun	25-Jul	(0.8758)	11.9938
Sep-98	1-Sep	30-Sep	14.9719	22-Jul	21-Aug	(0.4154)	26-Jul	25-Aug	(0.9705)	13.5861
Oct-98	1-Oct	31-Oct	14.4150	22-Aug	25-Sep	(0.2615)	26-Aug	25-Sep	(1.0793)	13.0742
Nov-98	1-Nov	30-Nov	13.0395	26-Sep	20-Oct	(0.1878)	26-Sep	25-Oct	(1.0738)	11.7779
Dec-98	1-Dec	31-Dec	11.3109	21-Oct	20-Nov	(0.3442)	26-Oct	25-Nov	(1.2504)	9.7163
Jan-99	1-Jan	31-Jan	12.4868	21-Nov	21-Dec	(0.5047)	26-Nov	25-Dec	(1.1411)	10.8411
Feb-99	1-Feb	28-Feb	12.0211	22-Dec	20-Jan	(0.1744)	26-Dec	25-Jan	(1.1779)	10.6688
Mar-99	1-Mar	31-Mar	14.6822	21-Jan	22-Feb	(0.1267)	26-Jan	25-Feb	(1.2336)	13.3219
Apr-99	1-Apr	30-Apr	17.3024	23-Feb	22-Mar	(0.0988)	26-Feb	25-Mar	(1.3605)	15.8430
May-99	1-May	31-May	17.7710	23-Mar	20-Apr	0.0373	26-Mar	25-Apr	(1.4400)	16.3683
Jun-99	1-Jun	30-Jun	17.9200	21-Apr	20-May	0.2609	26-Apr	25-May	(1.6748)	16.5061
Jul-99	1-Jul	31-Jul	20.0957	21-May	22-Jun	(0.0676)	26-May	25-Jun	(1.6868)	18.3413
Aug-99	1-Aug	31-Aug	21.2791	23-Jun	20-Jul	(0.0982)	26-Jun	25-Jul	(1.3405)	19.8403
Sep-99	1-Sep	30-Sep	23.7890	21-Jul	20-Aug	(0.0812)	26-Jul	25-Aug	(0.6987)	23.0092
Oct-99	1-Oct	31-Oct	22.6748	21-Aug	21-Sep	0.1935	26-Aug	25-Sep	(0.9290)	21.9392
Nov-99	1-Nov	30-Nov	24.7665	22-Sep	20-Oct	0.2554	26-Sep	25-Oct	(0.8260)	24.1959
Dec-99	1-Dec	31-Dec	26.0886	21-Oct	19-Nov	0.2558	26-Oct	25-Nov	(0.6525)	25.6918
Jan-00	1-Jan	31-Jan	27.0142	20-Nov	20-Dec	0.9402	26-Nov	25-Dec	(0.5811)	27.3733
Feb-00	1-Feb	29-Feb	29.2975	21-Dec	20-Jan	1.0816	26-Dec	25-Jan	(1.6624)	28.7167
Mar-00	1-Mar	31-Mar	29.8943	21-Jan	22-Feb	1.2406	26-Jan	25-Feb	(1.2275)	29.9075
Apr-00	1-Apr	30-Apr	25.5368	23-Feb	21-Mar	2.0765	26-Feb	25-Mar	(1.6198)	25.9936
May-00	1-May	31-May	28.8059	22-Mar	19-Apr	0.8710	26-Mar	25-Apr	(1.7640)	27.9128
Jun-00	1-Jun	30-Jun	31.5300	20-Apr	22-May	0.3906	26-Apr	25-May	(0.9864)	30.9342
Jul-00	1-Jul	31-Jul	29.7163	23-May	20-Jun	1.4242	26-May	25-Jun	(1.2305)	29.9100
Aug-00	1-Aug	31-Aug	31.1378	21-Jun	20-Jul	1.3818	26-Jun	25-Jul	(1.4880)	31.0317
Sep-00	1-Sep	30-Sep	33.8670	21-Jul	22-Aug	0.5058	26-Jul	25-Aug	(1.2404)	33.1324
Oct-00	1-Oct	31-Oct	32.9323	23-Aug	20-Sep	1.2070	26-Aug	25-Sep	(1.5600)	32.5793
Nov-00	1-Nov	30-Nov	34.2630	21-Sep	20-Oct	0.4515	26-Sep	25-Oct	(1.6186)	33.0959
Dec-00	1-Dec	31-Dec	28.3985	21-Oct	17-Nov	1.2253	26-Oct	25-Nov	(1.1413)	28.4826

Eugene Island Calculations
NYMEX Plus Daily Roll Methodology

Jan-01	1-Jan	31-Jan	29.2595	18-Nov	19-Dec	1.0645	26-Nov	25-Dec	(1.6510)	28.6730
Feb-01	1-Feb	28-Feb	29.6447	20-Dec	22-Jan	1.2208	26-Dec	25-Jan	(2.6195)	28.2460
Mar-01	1-Mar	31-Mar	27.2714	23-Jan	20-Feb	0.6870	26-Jan	25-Feb	(4.1010)	23.8574
Apr-01	1-Apr	30-Apr	27.6210	21-Feb	20-Mar	(0.0355)	26-Feb	25-Mar	(2.4918)	25.0938
May-01	1-May	31-May	28.6841	21-Mar	20-Apr	(0.2745)	26-Mar	25-Apr	(2.0475)	26.3620
Jun-01	1-Jun	30-Jun	27.5848	21-Apr	22-May	(0.4995)	26-Apr	25-May	(1.4700)	25.6152
Jul-01	1-Jul	31-Jul	26.4667	23-May	20-Jun	(0.1925)	26-May	25-Jun	(0.7000)	25.5742
Aug-01	1-Aug	31-Aug	27.3091	21-Jun	20-Jul	0.1825	26-Jun	25-Jul	(1.0890)	26.4026
Sep-01	1-Sep	30-Sep	25.6853	21-Jul	21-Aug	0.6958	26-Jul	25-Aug	(1.8964)	24.4847
Oct-01	1-Oct	31-Oct	22.2148	22-Aug	20-Sep	(0.1506)	26-Aug	25-Sep	(1.2463)	20.8179
Nov-01	1-Nov	30-Nov	19.6695	21-Sep	22-Oct	(0.4003)	26-Sep	25-Oct	(1.8607)	17.4085
Dec-01	1-Dec	31-Dec	19.4037	23-Oct	19-Nov	(0.2813)	26-Oct	25-Nov	(1.4521)	17.6702
Jan-02	1-Jan	31-Jan	19.7256	20-Nov	18-Dec	(0.3712)	26-Nov	25-Dec	(0.7593)	18.5951
Feb-02	1-Feb	28-Feb	20.7558	19-Dec	22-Jan	(0.4694)	26-Dec	25-Jan	(0.5817)	19.7048
Mar-02	1-Mar	31-Mar	24.4420	23-Jan	20-Feb	(0.3574)	26-Jan	25-Feb	(0.6730)	23.4116
Apr-02	1-Apr	30-Apr	26.2582	21-Feb	20-Mar	(0.2885)	26-Feb	25-Mar	(0.5297)	25.4399
May-02	1-May	31-May	26.9532	21-Mar	22-Apr	(0.1098)	26-Mar	25-Apr	(0.4089)	26.4345
Jun-02	1-Jun	30-Jun	0.0000	23-Apr	21-May	0.6932	26-Apr	25-May	(1.4386)	-0.7454
Jul-02	1-Jul	31-Jul	0.0000	0-Jan	0-Jan	0.0000	26-May	25-Jun	0.0000	0.0000
Aug-02	1-Aug	31-Aug	0.0000	0-Jan	0-Jan	0.0000	26-Jun	25-Jul	0.0000	0.0000
Sep-02	1-Sep	30-Sep	0.0000	0-Jan	0-Jan	0.0000	26-Jul	25-Aug	0.0000	0.0000
Oct-02	1-Oct	31-Oct	0.0000	0-Jan	0-Jan	0.0000	26-Aug	25-Sep	0.0000	0.0000
Nov-02	1-Nov	30-Nov	0.0000	0-Jan	0-Jan	0.0000	26-Sep	25-Oct	0.0000	0.0000
Dec-02	1-Dec	31-Dec	0.0000	0-Jan	0-Jan	0.0000	26-Oct	25-Nov	0.0000	0.0000

"Forward Roll" = NYMEX Calendar Month Average forward pricing; 2/3, 1/3 method.

Eugene Island Calculations
NYMEX (No Roll) Methodology

Production Month	Trading Period		NYMEX (1st month)	Trading Period		Eugene Island v. Cushing Difference	Total NYMEX (No Roll)
Jun-91	1-Jun	30-Jun	20.2025	26-Apr	25-May	(1.0805)	19.1220
Jul-91	1-Jul	31-Jul	21.4282	26-May	25-Jun	(1.2690)	20.1591
Aug-91	1-Aug	31-Aug	21.6823	26-Jun	25-Jul	(1.3353)	20.3470
Sep-91	1-Sep	30-Sep	21.8570	26-Jul	25-Aug	(1.3076)	20.5494
Oct-91	1-Oct	31-Oct	23.2296	26-Aug	25-Sep	(0.9175)	22.3121
Nov-91	1-Nov	30-Nov	22.4315	26-Sep	25-Oct	(0.7221)	21.7094
Dec-91	1-Dec	31-Dec	19.5314	26-Oct	25-Nov	(0.8314)	18.7000
Jan-92	1-Jan	31-Jan	18.8200	26-Nov	25-Dec	(1.1279)	17.6921
Feb-92	1-Feb	29-Feb	19.0053	26-Dec	25-Jan	(1.5431)	17.4622
Mar-92	1-Mar	31-Mar	18.9482	26-Jan	25-Feb	(1.5007)	17.4475
Apr-92	1-Apr	30-Apr	20.2567	26-Feb	25-Mar	(1.4214)	18.8352
May-92	1-May	31-May	20.9965	26-Mar	25-Apr	(1.3988)	19.5977
Jun-92	1-Jun	30-Jun	22.0700	26-Apr	25-May	(1.3548)	20.7153
Jul-92	1-Jul	31-Jul	21.7300	26-May	25-Jun	(1.1913)	20.5387
Aug-92	1-Aug	31-Aug	21.2867	26-Jun	25-Jul	(1.1993)	20.0874
Sep-92	1-Sep	30-Sep	21.9157	26-Jul	25-Aug	(1.3968)	20.5189
Oct-92	1-Oct	31-Oct	21.7068	26-Aug	25-Sep	(1.3364)	20.3705
Nov-92	1-Nov	30-Nov	20.3647	26-Sep	25-Oct	(1.3243)	19.0405
Dec-92	1-Dec	31-Dec	19.4300	26-Oct	25-Nov	(1.1020)	18.3280
Jan-93	1-Jan	31-Jan	19.0725	26-Nov	25-Dec	(1.0728)	17.9997
Feb-93	1-Feb	28-Feb	20.0758	26-Dec	25-Jan	(1.3425)	18.7333
Mar-93	1-Mar	31-Mar	20.3455	26-Jan	25-Feb	(1.1877)	19.1577
Apr-93	1-Apr	30-Apr	20.3252	26-Feb	25-Mar	(1.2558)	19.0695
May-93	1-May	31-May	19.9790	26-Mar	25-Apr	(1.3378)	18.6413
Jun-93	1-Jun	30-Jun	19.1336	26-Apr	25-May	(1.1252)	18.0084
Jul-93	1-Jul	31-Jul	17.8957	26-May	25-Jun	(1.1564)	16.7394
Aug-93	1-Aug	31-Aug	18.0132	26-Jun	25-Jul	(1.1663)	16.8469
Sep-93	1-Sep	30-Sep	17.5205	26-Jul	25-Aug	(1.1848)	16.3357
Oct-93	1-Oct	31-Oct	18.1729	26-Aug	25-Sep	(1.0945)	17.0783
Nov-93	1-Nov	30-Nov	16.7370	26-Sep	25-Oct	(1.0505)	15.6865
Dec-93	1-Dec	31-Dec	14.5329	26-Oct	25-Nov	(0.9195)	13.6133
Jan-94	1-Jan	31-Jan	15.0210	26-Nov	25-Dec	(0.8676)	14.1533
Feb-94	1-Feb	28-Feb	14.7816	26-Dec	25-Jan	(0.9464)	13.8352
Mar-94	1-Mar	31-Mar	14.6539	26-Jan	25-Feb	(0.7586)	13.8953
Apr-94	1-Apr	30-Apr	16.3263	26-Feb	25-Mar	(0.6627)	15.6636
May-94	1-May	31-May	17.8262	26-Mar	25-Apr	(0.4592)	17.3669
Jun-94	1-Jun	30-Jun	19.0686	26-Apr	25-May	(0.4220)	18.6466
Jul-94	1-Jul	31-Jul	19.6570	26-May	25-Jun	(1.1995)	18.4575
Aug-94	1-Aug	31-Aug	17.8846	26-Jun	25-Jul	(1.5265)	16.3581
Sep-94	1-Sep	30-Sep	17.4671	26-Jul	25-Aug	(0.9874)	16.4798
Oct-94	1-Oct	31-Oct	17.7114	26-Aug	25-Sep	(1.2673)	16.4442
Nov-94	1-Nov	30-Nov	18.0960	26-Sep	25-Oct	(1.1909)	16.9051
Dec-94	1-Dec	31-Dec	17.1562	26-Oct	25-Nov	(0.7162)	16.4400
Jan-95	1-Jan	31-Jan	17.9933	26-Nov	25-Dec	(0.7088)	17.2846
Feb-95	1-Feb	28-Feb	18.5347	26-Dec	25-Jan	(0.7864)	17.7483
Mar-95	1-Mar	31-Mar	18.5543	26-Jan	25-Feb	(0.9864)	17.5679
Apr-95	1-Apr	30-Apr	19.8879	26-Feb	25-Mar	(1.0288)	18.8591

Eugene Island Calculations
NYMEX (No Roll) Methodology

May-95	1-May	31-May	19.7405	26-Mar	25-Apr	(0.7431)	18.9974
Jun-95	1-Jun	30-Jun	18.4005	26-Apr	25-May	(0.6811)	17.7193
Jul-95	1-Jul	31-Jul	17.2568	26-May	25-Jun	(0.6190)	16.6378
Aug-95	1-Aug	31-Aug	17.8126	26-Jun	25-Jul	(0.6570)	17.1556
Sep-95	1-Sep	30-Sep	18.2080	26-Jul	25-Aug	(1.0528)	17.1552
Oct-95	1-Oct	31-Oct	17.3977	26-Aug	25-Sep	(1.4690)	15.9287
Nov-95	1-Nov	30-Nov	17.9980	26-Sep	25-Oct	(1.4123)	16.5857
Dec-95	1-Dec	31-Dec	19.0375	26-Oct	25-Nov	(1.4075)	17.6300
Jan-96	1-Jan	31-Jan	18.7005	26-Nov	25-Dec	(1.3760)	17.3245
Feb-96	1-Feb	29-Feb	18.7825	26-Dec	25-Jan	(0.9462)	17.8363
Mar-96	1-Mar	31-Mar	21.1819	26-Jan	25-Feb	(0.9120)	20.2699
Apr-96	1-Apr	30-Apr	23.2943	26-Feb	25-Mar	(0.9521)	22.3421
May-96	1-May	31-May	21.0918	26-Mar	25-Apr	(1.1330)	19.9589
Jun-96	1-Jun	30-Jun	20.4295	26-Apr	25-May	(1.3074)	19.1221
Jul-96	1-Jul	31-Jul	21.2505	26-May	25-Jun	(1.3407)	19.9098
Aug-96	1-Aug	31-Aug	21.9064	26-Jun	25-Jul	(1.2300)	20.6764
Sep-96	1-Sep	30-Sep	23.9320	26-Jul	25-Aug	(1.1860)	22.7460
Oct-96	1-Oct	31-Oct	24.8865	26-Aug	25-Sep	(1.1270)	23.7595
Nov-96	1-Nov	30-Nov	23.5516	26-Sep	25-Oct	(1.1125)	22.4391
Dec-96	1-Dec	31-Dec	25.1238	26-Oct	25-Nov	(1.2440)	23.8798
Jan-97	1-Jan	31-Jan	25.1805	26-Nov	25-Dec	(1.1700)	24.0105
Feb-97	1-Feb	28-Feb	22.1721	26-Dec	25-Jan	(1.3388)	20.8333
Mar-97	1-Mar	31-Mar	20.9740	26-Jan	25-Feb	(2.1726)	18.8014
Apr-97	1-Apr	30-Apr	19.7268	26-Feb	25-Mar	(2.4440)	17.2828
May-97	1-May	31-May	20.8719	26-Mar	25-Apr	(2.1018)	18.7701
Jun-97	1-Jun	30-Jun	19.2176	26-Apr	25-May	(1.5188)	17.6989
Jul-97	1-Jul	31-Jul	19.6591	26-May	25-Jun	(1.7695)	17.8895
Aug-97	1-Aug	31-Aug	19.9457	26-Jun	25-Jul	(1.3357)	18.6100
Sep-97	1-Sep	30-Sep	19.7776	26-Jul	25-Aug	(1.3864)	18.3912
Oct-97	1-Oct	31-Oct	21.2787	26-Aug	25-Sep	(1.4057)	19.8730
Nov-97	1-Nov	30-Nov	20.2200	26-Sep	25-Oct	(1.4183)	18.8017
Dec-97	1-Dec	31-Dec	18.3200	26-Oct	25-Nov	(1.6105)	16.7095
Jan-98	1-Jan	31-Jan	16.7275	26-Nov	25-Dec	(1.1837)	15.5438
Feb-98	1-Feb	28-Feb	16.0805	26-Dec	25-Jan	(1.3968)	14.6837
Mar-98	1-Mar	31-Mar	15.0445	26-Jan	25-Feb	(1.8980)	13.1466
Apr-98	1-Apr	30-Apr	15.4648	26-Feb	25-Mar	(1.8940)	13.5708
May-98	1-May	31-May	14.9340	26-Mar	25-Apr	(1.9783)	12.9557
Jun-98	1-Jun	30-Jun	13.6695	26-Apr	25-May	(1.3712)	12.2983
Jul-98	1-Jul	31-Jul	14.0855	26-May	25-Jun	(1.0693)	13.0161
Aug-98	1-Aug	31-Aug	13.3819	26-Jun	25-Jul	(0.8758)	12.5062
Sep-98	1-Sep	30-Sep	14.9719	26-Jul	25-Aug	(0.9705)	14.0015
Oct-98	1-Oct	31-Oct	14.4150	26-Aug	25-Sep	(1.0793)	13.3357
Nov-98	1-Nov	30-Nov	13.0395	26-Sep	25-Oct	(1.0738)	11.9657
Dec-98	1-Dec	31-Dec	11.3109	26-Oct	25-Nov	(1.2504)	10.0605
Jan-99	1-Jan	31-Jan	12.4868	26-Nov	25-Dec	(1.1411)	11.3458
Feb-99	1-Feb	28-Feb	12.0211	26-Dec	25-Jan	(1.1779)	10.8432
Mar-99	1-Mar	31-Mar	14.6822	26-Jan	25-Feb	(1.2336)	13.4485
Apr-99	1-Apr	30-Apr	17.3024	26-Feb	25-Mar	(1.3605)	15.9419
May-99	1-May	31-May	17.7710	26-Mar	25-Apr	(1.4400)	16.3310
Jun-99	1-Jun	30-Jun	17.9200	26-Apr	25-May	(1.6748)	16.2452
Jul-99	1-Jul	31-Jul	20.0957	26-May	25-Jun	(1.6868)	18.4089
Aug-99	1-Aug	31-Aug	21.2791	26-Jun	25-Jul	(1.3405)	19.9386

Eugene Island Calculations
NYMEX (No Roll) Methodology

Sep-99	1-Sep	30-Sep	23.7890	26-Jul	25-Aug	(0.6987)	23.0904
Oct-99	1-Oct	31-Oct	22.6748	26-Aug	25-Sep	(0.9290)	21.7457
Nov-99	1-Nov	30-Nov	24.7665	26-Sep	25-Oct	(0.8260)	23.9405
Dec-99	1-Dec	31-Dec	26.0886	26-Oct	25-Nov	(0.6525)	25.4361
Jan-00	1-Jan	31-Jan	27.0142	26-Nov	25-Dec	(0.5811)	26.4332
Feb-00	1-Feb	29-Feb	29.2975	26-Dec	25-Jan	(1.6624)	27.6351
Mar-00	1-Mar	31-Mar	29.8943	26-Jan	25-Feb	(1.2275)	28.6668
Apr-00	1-Apr	30-Apr	25.5368	26-Feb	25-Mar	(1.6198)	23.9171
May-00	1-May	31-May	28.8059	26-Mar	25-Apr	(1.7640)	27.0419
Jun-00	1-Jun	30-Jun	31.5300	26-Apr	25-May	(0.9864)	30.5436
Jul-00	1-Jul	31-Jul	29.7163	26-May	25-Jun	(1.2305)	28.4858
Aug-00	1-Aug	31-Aug	31.1378	26-Jun	25-Jul	(1.4880)	29.6498
Sep-00	1-Sep	30-Sep	33.8670	26-Jul	25-Aug	(1.2404)	32.6266
Oct-00	1-Oct	31-Oct	32.9323	26-Aug	25-Sep	(1.5600)	31.3723
Nov-00	1-Nov	30-Nov	34.2630	26-Sep	25-Oct	(1.6186)	32.6444
Dec-00	1-Dec	31-Dec	28.3985	26-Oct	25-Nov	(1.1413)	27.2573
Jan-01	1-Jan	31-Jan	29.2595	26-Nov	25-Dec	(1.6510)	27.6085
Feb-01	1-Feb	28-Feb	29.6447	26-Dec	25-Jan	(2.6195)	27.0252
Mar-01	1-Mar	31-Mar	27.2714	26-Jan	25-Feb	(4.1010)	23.1704
Apr-01	1-Apr	30-Apr	27.6210	26-Feb	25-Mar	(2.4918)	25.1293
May-01	1-May	31-May	28.6841	26-Mar	25-Apr	(2.0475)	26.6366
Jun-01	1-Jun	30-Jun	27.5848	26-Apr	25-May	(1.4700)	26.1148
Jul-01	1-Jul	31-Jul	26.4667	26-May	25-Jun	(0.7000)	25.7667
Aug-01	1-Aug	31-Aug	27.3091	26-Jun	25-Jul	(1.0890)	26.2201
Sep-01	1-Sep	30-Sep	25.6853	26-Jul	25-Aug	(1.8964)	23.7890
Oct-01	1-Oct	31-Oct	22.2148	26-Aug	25-Sep	(1.2463)	20.9685
Nov-01	1-Nov	30-Nov	19.6695	26-Sep	25-Oct	(1.8607)	17.8088
Dec-01	1-Dec	31-Dec	19.4037	26-Oct	25-Nov	(1.4521)	17.9516
Jan-02	1-Jan	31-Jan	19.7256	26-Nov	25-Dec	(0.7593)	18.9664
Feb-02	1-Feb	28-Feb	20.7558	26-Dec	25-Jan	(0.5817)	20.1741
Mar-02	1-Mar	31-Mar	24.4420	26-Jan	25-Feb	(0.6730)	23.7690
Apr-02	1-Apr	30-Apr	26.2582	26-Feb	25-Mar	(0.5297)	25.7284
May-02	1-May	31-May	26.9532	26-Mar	25-Apr	(0.4089)	26.5443
Jun-02	1-Jun	30-Jun	0.0000	26-Apr	25-May	(1.4386)	-1.4386
Jul-02	1-Jul	31-Jul	0.0000	26-May	25-Jun	0.0000	0.0000
Aug-02	1-Aug	31-Aug	0.0000	26-Jun	25-Jul	0.0000	0.0000
Sep-02	1-Sep	30-Sep	0.0000	26-Jul	25-Aug	0.0000	0.0000
Oct-02	1-Oct	31-Oct	0.0000	26-Aug	25-Sep	0.0000	0.0000
Nov-02	1-Nov	30-Nov	0.0000	26-Sep	25-Oct	0.0000	0.0000
Dec-02	1-Dec	31-Dec	0.0000	26-Oct	25-Nov	0.0000	0.0000

Eugene Island Calculations
MMS RIV Methodology

Production Month	Period		Platts Eugene Island (Concurrent)
May-91	26-Apr	25-May	20.1521
Jun-91	26-May	25-Jun	19.1088
Jul-91	26-Jun	25-Jul	19.9235
Aug-91	26-Jul	25-Aug	20.2852
Sep-91	26-Aug	25-Sep	20.9275
Oct-91	26-Sep	25-Oct	22.3783
Nov-91	26-Oct	25-Nov	21.9869
Dec-91	26-Nov	25-Dec	18.6918
Jan-92	26-Dec	25-Jan	17.1895
Feb-92	26-Jan	25-Feb	17.5517
Mar-92	26-Feb	25-Mar	17.3795
Apr-92	26-Mar	25-Apr	18.5850
May-92	26-Apr	25-May	19.3368
Jun-92	26-May	25-Jun	21.1446
Jul-92	26-Jun	25-Jul	20.5498
Aug-92	26-Jul	25-Aug	20.0805
Sep-92	26-Aug	25-Sep	20.4598
Oct-92	26-Sep	25-Oct	20.5523
Nov-92	26-Oct	25-Nov	19.3965
Dec-92	26-Nov	25-Dec	18.2903
Jan-93	26-Dec	25-Jan	17.6223
Feb-93	26-Jan	25-Feb	18.8382
Mar-93	26-Feb	25-Mar	19.0703
Apr-93	26-Mar	25-Apr	18.9148
May-93	26-Apr	25-May	18.9111
Jun-93	26-May	25-Jun	18.0514
Jul-93	26-Jun	25-Jul	16.7861
Aug-93	26-Jul	25-Aug	16.7743
Sep-93	26-Aug	25-Sep	16.4576
Oct-93	26-Sep	25-Oct	17.2686
Nov-93	26-Oct	25-Nov	15.9818
Dec-93	26-Nov	25-Dec	13.7882
Jan-94	26-Dec	25-Jan	13.8493
Feb-94	26-Jan	25-Feb	14.1714
Mar-94	26-Feb	25-Mar	14.0520
Apr-94	26-Mar	25-Apr	15.5203
May-94	26-Apr	25-May	17.2648
Jun-94	26-May	25-Jun	17.7114
Jul-94	26-Jun	25-Jul	18.0058
Aug-94	26-Jul	25-Aug	17.7980
Sep-94	26-Aug	25-Sep	16.0748
Oct-94	26-Sep	25-Oct	16.4795
Nov-94	26-Oct	25-Nov	17.4045
Dec-94	26-Nov	25-Dec	16.4830
Jan-95	26-Dec	25-Jan	17.1360

Eugene Island Calculations
MMS RIV Methodology

Feb-95	26-Jan	25-Feb	17.4674
Mar-95	26-Feb	25-Mar	17.3738
Apr-95	26-Mar	25-Apr	18.8971
May-95	26-Apr	25-May	19.2652
Jun-95	26-May	25-Jun	18.0435
Jul-95	26-Jun	25-Jul	16.6953
Aug-95	26-Jul	25-Aug	16.9178
Sep-95	26-Aug	25-Sep	16.7993
Oct-95	26-Sep	25-Oct	16.0159
Nov-95	26-Oct	25-Nov	16.4483
Dec-95	26-Nov	25-Dec	17.4173
Jan-96	26-Dec	25-Jan	18.2057
Feb-96	26-Jan	25-Feb	17.7953
Mar-96	26-Feb	25-Mar	19.9538
Apr-96	26-Mar	25-Apr	22.2714
May-96	26-Apr	25-May	20.1936
Jun-96	26-May	25-Jun	19.0448
Jul-96	26-Jun	25-Jul	20.2285
Aug-96	26-Jul	25-Aug	20.4357
Sep-96	26-Aug	25-Sep	22.3330
Oct-96	26-Sep	25-Oct	23.8455
Nov-96	26-Oct	25-Nov	22.5655
Dec-96	26-Nov	25-Dec	24.0916
Jan-97	26-Dec	25-Jan	24.0238
Feb-97	26-Jan	25-Feb	20.7121
Mar-97	26-Feb	25-Mar	18.5305
Apr-97	26-Mar	25-Apr	17.6984
May-97	26-Apr	25-May	19.2695
Jun-97	26-May	25-Jun	17.7966
Jul-97	26-Jun	25-Jul	18.1926
Aug-97	26-Jul	25-Aug	18.6369
Sep-97	26-Aug	25-Sep	18.1525
Oct-97	26-Sep	25-Oct	19.9169
Nov-97	26-Oct	25-Nov	18.7770
Dec-97	26-Nov	25-Dec	17.2703
Jan-98	26-Dec	25-Jan	15.3782
Feb-98	26-Jan	25-Feb	14.4907
Mar-98	26-Feb	25-Mar	12.9730
Apr-98	26-Mar	25-Apr	13.5057
May-98	26-Apr	25-May	13.6673
Jun-98	26-May	25-Jun	12.7915
Jul-98	26-Jun	25-Jul	13.2148
Aug-98	26-Jul	25-Aug	12.6116
Sep-98	26-Aug	25-Sep	13.4771
Oct-98	26-Sep	25-Oct	13.6083
Nov-98	26-Oct	25-Nov	12.0622
Dec-98	26-Nov	25-Dec	10.0497
Jan-99	26-Dec	25-Jan	11.1737
Feb-99	26-Jan	25-Feb	10.8311

Eugene Island Calculations
MMS RIV Methodology

Mar-99	26-Feb	25-Mar	12.8003
Apr-99	26-Mar	25-Apr	15.5180
May-99	26-Apr	25-May	16.2623
Jun-99	26-May	25-Jun	15.9980
Jul-99	26-Jun	25-Jul	18.3953
Aug-99	26-Jul	25-Aug	20.3559
Sep-99	26-Aug	25-Sep	22.4055
Oct-99	26-Sep	25-Oct	22.2560
Nov-99	26-Oct	25-Nov	23.7486
Dec-99	26-Nov	25-Dec	25.4071
Jan-00	26-Dec	25-Jan	25.3363
Feb-00	26-Jan	25-Feb	27.7307
Mar-00	26-Feb	25-Mar	29.0190
Apr-00	26-Mar	25-Apr	24.3707
May-00	26-Apr	25-May	27.1977
Jun-00	26-May	25-Jun	30.2645
Jul-00	26-Jun	25-Jul	29.1950
Aug-00	26-Jul	25-Aug	29.1917
Sep-00	26-Aug	25-Sep	32.7195
Oct-00	26-Sep	25-Oct	31.0489
Nov-00	26-Oct	25-Nov	32.9683
Dec-00	26-Nov	25-Dec	28.3058
Jan-01	26-Dec	25-Jan	26.4083
Feb-01	26-Jan	25-Feb	25.6285
Mar-01	26-Feb	25-Mar	24.8895
Apr-01	26-Mar	25-Apr	25.0845
May-01	26-Apr	25-May	27.1184
Jun-01	26-May	25-Jun	27.2893
Jul-01	26-Jun	25-Jul	25.2740
Aug-01	26-Jul	25-Aug	25.4670
Sep-01	26-Aug	25-Sep	25.5408
Oct-01	26-Sep	25-Oct	20.3973
Nov-01	26-Oct	25-Nov	18.7187
Dec-01	26-Nov	25-Dec	18.2048
Jan-02	26-Dec	25-Jan	19.2938
Feb-02	26-Jan	25-Feb	19.6550
Mar-02	26-Feb	25-Mar	23.1565
Apr-02	26-Mar	25-Apr	25.6545
May-02	26-Apr	25-May	25.9976
Jun-02	26-May	25-Jun	0.0000
Jul-02	26-Jun	25-Jul	0.0000
Aug-02	26-Jul	25-Aug	0.0000
Sep-02	26-Aug	25-Sep	0.0000
Oct-02	26-Sep	25-Oct	0.0000
Nov-02	26-Oct	25-Nov	0.0000
Dec-02	26-Nov	25-Dec	0.0000

HLS Comparison
v.Koch Posting Plus

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Aug-96	-	(1.245)	0.108	(0.797)	(0.574)	Backwardated	Rising
Sep-96	-	(2.794)	0.238	(0.483)	(0.863)	Backwardated	Rising
Oct-96	-	(2.109)	0.056	(0.683)	(0.189)	Backwardated	Rising
Nov-96	-	0.850	0.105	(0.557)	(0.191)	Backwardated	Falling
Dec-96	-	(1.618)	0.082	(0.304)	(0.445)	Backwardated	Rising
Jan-97	-	(0.763)	(0.101)	(0.844)	(1.083)	Backwardated	Rising
Feb-97	-	2.524	0.202	(0.667)	(0.004)	Backwardated	Falling
Mar-97	-	1.644	0.253	(0.257)	(0.601)	Backwardated	Falling
Apr-97	-	1.015	(0.026)	(0.232)	(0.565)	Contango	Falling
May-97	-	(0.927)	0.154	0.145	0.455	Contango	Rising
Jun-97	-	1.740	0.149	0.169	0.479	Contango	Falling
Jul-97	-	0.219	0.112	0.311	0.419	Contango	Rising
Aug-97	-	(0.097)	0.184	0.320	0.462	Contango	Rising
Sep-97	-	0.468	0.099	0.242	0.095	Contango	Falling
Oct-97	-	(1.584)	(0.021)	0.137	0.031	Contango	Rising
Nov-97	-	1.237	0.113	0.122	0.337	Contango	Falling
Dec-97	-	2.252	0.016	0.184	0.334	Contango	Falling
Jan-98	-	2.000	0.002	0.273	0.082	Contango	Falling
Feb-98	-	0.989	0.041	0.294	0.313	Contango	Falling
Mar-98	-	1.686	0.067	0.341	(0.139)	Contango	Falling
Apr-98	-	(0.227)	(0.103)	0.371	0.385	Contango	Rising
May-98	-	1.168	0.184	0.618	1.573	Contango	Falling
Jun-98	-	2.352	0.121	0.983	0.894	Contango	Falling
Jul-98	-	0.795	0.007	1.020	0.959	Contango	Rising
Aug-98	-	1.071	(0.150)	0.363	0.594	Contango	Falling
Sep-98	-	(1.007)	(0.033)	0.383	0.326	Contango	Rising
Oct-98	-	0.347	(0.056)	0.206	0.090	Contango	Falling
Nov-98	-	1.942	0.111	0.299	0.766	Contango	Falling
Dec-98	-	2.491	0.145	0.489	0.461	Contango	Falling
Jan-99	-	(0.817)	(0.026)	0.479	0.213	Contango	Rising
Feb-99	-	0.543	0.038	0.212	(0.217)	Contango	Falling
Mar-99	-	(2.472)	0.019	0.146	(0.706)	Contango	Rising
Apr-99	-	(2.953)	0.089	0.188	0.070	Backwardated	Rising
May-99	-	(0.864)	(0.014)	(0.051)	0.004	Backwardated	Rising
Jun-99	-	(0.112)	0.132	(0.129)	(0.449)	Contango	Rising
Jul-99	-	(2.165)	0.178	0.246	0.411	Contango	Rising
Aug-99	-	(1.361)	0.084	0.182	0.501	Contango	Rising
Sep-99	-	(2.533)	0.121	0.202	(0.645)	Backwardated	Rising
Oct-99	-	0.365	(0.101)	(0.295)	(0.046)	Backwardated	Falling
Nov-99	-	(2.099)	(0.159)	(0.414)	(0.115)	Backwardated	Rising
Dec-99	-	(1.963)	(0.020)	(0.275)	(0.049)	Backwardated	Rising
Jan-00	-	(1.620)	0.346	(0.594)	(1.299)	Backwardated	Rising
Feb-00	-	(3.437)	(0.056)	(1.138)	(1.064)	Backwardated	Rising
Mar-00	-	(2.218)	(0.041)	(1.282)	(1.457)	Backwardated	Rising
Apr-00	-	3.216	0.190	(1.886)	(1.298)	Backwardated	Falling
May-00	-	(3.916)	(0.374)	(1.245)	(1.014)	Backwardated	Rising
Jun-00	-	(3.590)	0.147	(0.244)	(0.754)	Backwardated	Rising
Jul-00	-	(0.011)	(0.365)	(1.790)	(0.601)	Backwardated	Falling
Aug-00	-	(1.478)	0.359	(1.023)	(1.272)	Backwardated	Rising
Sep-00	-	(3.931)	0.009	(0.497)	(0.579)	Backwardated	Rising
Oct-00	-	0.326	0.186	(1.021)	(1.436)	Backwardated	Falling
Nov-00	-	(2.240)	(0.193)	(0.645)	0.379	Backwardated	Rising
Dec-00	-	4.531	0.045	(1.180)	(0.445)	Backwardated	Falling
Jan-01	-	(0.232)	0.135	(0.929)	(1.406)	Backwardated	Rising
Feb-01	-	(2.053)	(0.216)	(1.437)	(2.464)	Backwardated	Rising
Mar-01	-	1.942	0.171	(0.516)	(0.102)	Contango	Falling
Apr-01	-	(0.018)	0.186	0.222	0.441	Contango	Rising
May-01	-	(1.014)	0.264	0.538	1.341	Contango	Rising
Jun-01	-	1.556	0.052	0.552	0.992	Contango	Falling
Jul-01	-	1.674	(0.041)	0.151	(0.656)	Backwardated	Falling
Aug-01	-	(1.114)	0.014	(0.168)	(0.882)	Backwardated	Rising
Sep-01	-	0.079	(0.904)	(1.600)	0.645	Contango	Falling
Oct-01	-	4.862	0.139	0.290	(0.359)	Contango	Falling
Nov-01	-	2.990	0.001	0.402	1.274	Contango	Falling
Dec-01	-	1.036	(0.013)	0.268	(0.091)	Contango	Falling
Jan-02	-	(0.342)	0.049	0.420	0.715	Contango	Rising
Feb-02	-	(0.475)	(0.064)	0.405	0.012	Contango	Rising
Mar-02	-	(3.854)	(0.098)	0.260	(0.489)	Contango	Rising
Apr-02	-	(2.158)	0.126	0.414	0.510	Contango	Rising
May-02	-	(0.827)	(0.047)	0.062	(0.843)	Backwardated	Rising
Jun-02	-						
Jul-02	-						
Aug-02	-						
Sep-02	-						
Oct-02	-						
Nov-02	-						
Dec-02	-						
Average: 8/96 - present		(0.204)	0.034	(0.147)	(0.126)		
Percentage		44%	66%	56%	47%		
Average: 1/99 - present		(0.701)	0.009	(0.310)	(0.323)		
Percentage		29%	59%	46%	34%		
Average: 6/00 - present		(0.181)	(0.002)	(0.294)	(0.253)		
Percentage		38%	63%	50%	38%		

Positive numbers = Methodology exceeds Koch Posting Plus methodology
(Negative numbers) = Koch Posting Plus methodology exceeds compared methodology
Percentage = Number of months compared methodology exceeded Koch+ Methodology

HLS Comparison
v.NYMEX Plus Roll

Production Month	Koch Netback	Platts Index (Trade month)	NYMEX Plus Roll	NYMEX (No roll)	RIV Methodology	Market Condition	
Mar-87		(0.417)	-	(0.159)	(0.437)	Backwardated	Rising
Apr-87		(0.728)	-	(0.215)	(0.165)	Backwardated	Rising
May-87		(1.113)	-	(0.429)	(0.442)	Backwardated	Rising
Jun-87		(1.134)	-	(0.442)	(0.674)	Backwardated	Rising
Jul-87		(1.845)	-	(0.417)	(0.757)	Backwardated	Rising
Aug-87		0.538	-	(0.473)	(0.024)	Backwardated	Falling
Sep-87		0.817	-	(0.326)	(0.202)	Backwardated	Falling
Oct-87		(0.569)	-	(0.231)	(0.234)	Backwardated	Rising
Nov-87		0.804	-	(0.122)	0.434	Backwardated	Falling
Dec-87		1.815	-	(0.139)	(0.014)	Backwardated	Falling
Jan-88		(0.015)	-	(0.248)	(0.228)	Backwardated	Falling
Feb-88		0.171	-	(0.179)	(0.188)	Backwardated	Falling
Mar-88		0.580	-	(0.101)	(0.634)	Backwardated	Falling
Apr-88		(1.985)	-	(0.101)	(0.508)	Backwardated	Rising
May-88		0.073	-	(0.107)	(0.055)	Contango	Falling
Jun-88		1.085	-	0.089	0.559	Contango	Falling
Jul-88		1.496	-	0.185	0.243	Contango	Falling
Aug-88		0.139	-	0.271	0.516	Contango	Rising
Sep-88		1.383	-	0.174	0.493	Backwardated	Falling
Oct-88		0.961	-	(0.090)	(0.424)	Backwardated	Falling
Nov-88		(0.494)	-	(0.360)	(0.370)	Backwardated	Rising
Dec-88		(2.525)	-	(0.105)	0.244	Backwardated	Rising
Jan-89		(2.293)	-	(0.419)	(0.570)	Backwardated	Rising
Feb-89		(0.620)	-	(0.719)	(0.875)	Backwardated	Falling
Mar-89		(2.272)	-	(0.649)	(1.092)	Backwardated	Rising
Apr-89		(2.455)	-	(0.628)	(0.124)	Backwardated	Rising
May-89		(0.009)	-	(1.125)	(0.868)	Backwardated	Falling
Jun-89		(1.023)	-	(1.534)	(2.346)	Backwardated	Falling
Jul-89		(0.896)	-	(1.203)	(0.851)	Backwardated	Falling
Aug-89		0.731	-	(0.909)	(0.631)	Backwardated	Falling
Sep-89		(1.396)	-	(0.305)	(0.164)	Backwardated	Rising
Oct-89		(1.038)	-	(0.303)	(0.051)	Backwardated	Rising
Nov-89		0.023	-	(0.249)	0.167	Backwardated	Falling
Dec-89		(1.408)	-	(0.236)	(0.736)	Backwardated	Rising
Jan-90		(2.358)	-	(0.362)	(0.300)	Backwardated	Rising
Feb-90		(0.318)	-	(0.926)	(1.762)	Backwardated	Falling
Mar-90		1.218	-	(0.646)	(0.419)	Contango	Falling
Apr-90		2.186	-	0.166	0.522	Contango	Falling
May-90		1.051	-	0.584	0.525	Contango	Falling
Jun-90		2.157	-	0.698	0.703	Contango	Falling
Jul-90		(0.912)	-	0.916	0.396	Contango	Rising
Aug-90		(8.372)	-	0.904	0.416	Backwardated	Rising
Sep-90		(7.682)	-	(0.096)	(1.518)	Backwardated	Rising
Oct-90		(5.354)	-	(0.903)	(0.630)	Backwardated	Rising
Nov-90		2.619	-	(1.540)	(0.933)	Backwardated	Falling
Dec-90		4.317	-	(1.412)	0.277	Backwardated	Falling
Jan-91		2.794	-	(1.056)	(0.101)	Backwardated	Falling
Feb-91		4.433	-	(1.239)	(1.818)	Backwardated	Falling
Mar-91		(0.413)	-	(1.479)	(1.023)	Backwardated	Falling
Apr-91		(1.572)	-	(0.529)	(1.355)	Backwardated	Rising
May-91		(1.020)	-	(0.382)	(0.558)	Contango	Rising
Jun-91		0.866	-	(0.164)	0.097	Contango	Falling
Jul-91		(0.951)	-	0.099	(0.092)	Backwardated	Rising
Aug-91		(0.517)	-	(0.094)	(0.001)	Backwardated	Rising
Sep-91		(0.346)	-	(0.082)	0.514	Backwardated	Rising
Oct-91		(1.497)	-	(0.113)	(0.185)	Backwardated	Rising
Nov-91		0.454	-	(0.215)	(0.057)	Backwardated	Falling
Dec-91		3.036	-	(0.250)	(0.273)	Backwardated	Falling
Jan-92		0.898	-	(0.102)	(0.568)	Contango	Falling
Feb-92		(0.183)	-	0.089	0.348	Contango	Rising
Mar-92		0.277	-	0.173	0.135	Contango	Falling
Apr-92		(1.258)	-	0.198	(0.109)	Contango	Rising
May-92		(0.916)	-	0.097	(0.183)	Contango	Rising
Jun-92		(1.284)	-	0.095	0.457	Backwardated	Rising
Jul-92		0.597	-	(0.009)	(0.127)	Backwardated	Falling

HLS Comparison
v.NYMEX Plus Roll

Aug-92		0.343	-	(0.119)	(0.037)	Backwardated	Falling
Sep-92		(0.568)	-	(0.130)	(0.207)	Backwardated	Rising
Oct-92		(0.092)	-	(0.181)	(0.000)	Backwardated	Falling
Nov-92		1.419	-	(0.092)	0.191	Contango	Falling
Dec-92		1.092	-	0.023	(0.171)	Contango	Falling
Jan-93		0.389	-	0.099	(0.028)	Contango	Falling
Feb-93		(0.951)	-	0.160	0.297	Contango	Rising
Mar-93		(0.254)	-	0.065	(0.131)	Contango	Rising
Apr-93		0.107	-	0.107	0.058	Contango	Falling
May-93		0.488	-	0.214	0.527	Contango	Falling
Jun-93		1.164	-	0.261	0.250	Contango	Falling
Jul-93		1.622	-	0.310	0.351	Contango	Falling
Aug-93		0.322	-	0.382	0.420	Contango	Rising
Sep-93		0.839	-	0.400	0.454	Contango	Falling
Oct-93		(0.253)	-	0.368	0.479	Contango	Rising
Nov-93		1.801	-	0.219	0.434	Contango	Falling
Dec-93		2.691	-	0.322	0.548	Contango	Falling
Jan-94		0.039	-	0.404	0.156	Contango	Rising
Feb-94		0.324	-	0.310	0.493	Contango	Falling
Mar-94		0.378	-	0.102	0.209	Contango	Falling
Apr-94		(1.491)	-	0.121	(0.143)	Backwardated	Rising
May-94		(1.876)	-	(0.030)	(0.278)	Backwardated	Rising
Jun-94		(1.786)	-	(0.404)	(1.484)	Backwardated	Rising
Jul-94		(1.362)	-	(0.616)	(0.811)	Backwardated	Rising
Aug-94		1.039	-	(0.608)	1.013	Backwardated	Falling
Sep-94		1.048	-	(0.270)	(0.654)	Contango	Falling
Oct-94		(0.225)	-	0.144	0.377	Contango	Rising
Nov-94		(0.288)	-	0.137	0.558	Backwardated	Rising
Dec-94		0.846	-	(0.119)	(0.199)	Contango	Falling
Jan-95		(0.768)	-	0.034	(0.145)	Backwardated	Rising
Feb-95		(0.696)	-	(0.083)	(0.349)	Backwardated	Rising
Mar-95		(0.323)	-	(0.223)	(0.565)	Backwardated	Rising
Apr-95		(1.623)	-	(0.137)	(0.000)	Backwardated	Rising
May-95		(0.352)	-	(0.252)	(0.067)	Backwardated	Falling
Jun-95		1.217	-	(0.329)	0.031	Backwardated	Falling
Jul-95		1.210	-	(0.196)	(0.100)	Backwardated	Falling
Aug-95		(0.683)	-	(0.222)	(0.112)	Backwardated	Rising
Sep-95		(0.521)	-	(0.284)	(0.461)	Backwardated	Rising
Oct-95		0.409	-	(0.462)	(0.254)	Backwardated	Falling
Nov-95		(0.851)	-	(0.281)	(0.449)	Backwardated	Rising
Dec-95		(1.501)	-	(0.319)	(0.381)	Backwardated	Rising
Jan-96		(0.309)	-	(0.402)	0.230	Backwardated	Falling
Feb-96		(0.228)	-	(0.598)	(0.769)	Backwardated	Rising
Mar-96		(3.062)	-	(0.587)	(1.028)	Backwardated	Rising
Apr-96		(3.785)	-	(1.397)	(1.916)	Backwardated	Rising
May-96		(0.156)	-	(2.469)	(1.875)	Backwardated	Falling
Jun-96		(0.388)	-	(1.459)	(1.781)	Backwardated	Falling
Jul-96		(1.917)	-	(1.052)	(0.674)	Backwardated	Rising
Aug-96	(0.108)	(1.353)	-	(0.905)	(0.682)	Backwardated	Rising
Sep-96	(0.238)	(3.032)	-	(0.722)	(1.101)	Backwardated	Rising
Oct-96	(0.056)	(2.165)	-	(0.738)	(0.244)	Backwardated	Rising
Nov-96	(0.105)	0.745	-	(0.662)	(0.296)	Backwardated	Falling
Dec-96	(0.082)	(1.700)	-	(0.385)	(0.526)	Backwardated	Rising
Jan-97	0.101	(0.662)	-	(0.743)	(0.981)	Backwardated	Rising
Feb-97	(0.202)	2.322	-	(0.869)	(0.206)	Backwardated	Falling
Mar-97	(0.253)	1.391	-	(0.520)	(0.854)	Backwardated	Falling
Apr-97	0.026	1.041	-	(0.206)	(0.540)	Contango	Falling
May-97	(0.154)	(1.081)	-	(0.009)	0.302	Contango	Rising
Jun-97	(0.149)	1.591	-	0.020	0.330	Contango	Falling
Jul-97	(0.112)	0.107	-	0.200	0.307	Contango	Rising
Aug-97	(0.184)	(0.281)	-	0.137	0.279	Contango	Rising
Sep-97	(0.099)	0.389	-	0.143	(0.004)	Contango	Falling
Oct-97	0.021	(1.563)	-	0.157	0.051	Contango	Rising
Nov-97	(0.113)	1.124	-	0.008	0.224	Contango	Falling
Dec-97	(0.016)	2.236	-	0.168	0.318	Contango	Falling
Jan-98	(0.002)	1.997	-	0.271	0.080	Contango	Falling
Feb-98	(0.041)	0.948	-	0.254	0.272	Contango	Falling
Mar-98	(0.067)	1.619	-	0.275	(0.206)	Contango	Falling
Apr-98	0.103	(0.124)	-	0.474	0.488	Contango	Rising
May-98	(0.184)	0.984	-	0.434	1.390	Contango	Falling

HLS Comparison
v.NYMEX Plus Roll

Jun-98	(0.121)	2.231	-	0.862	0.773	Contango	Falling
Jul-98	(0.007)	0.788	-	1.012	0.952	Contango	Rising
Aug-98	0.150	1.221	-	0.512	0.744	Contango	Falling
Sep-98	0.033	(0.974)	-	0.415	0.359	Contango	Rising
Oct-98	0.056	0.403	-	0.262	0.146	Contango	Falling
Nov-98	(0.111)	1.830	-	0.188	0.655	Contango	Falling
Dec-98	(0.145)	2.346	-	0.344	0.315	Contango	Falling
Jan-99	0.026	(0.791)	-	0.505	0.238	Contango	Rising
Feb-99	(0.038)	0.505	-	0.174	(0.254)	Contango	Falling
Mar-99	(0.019)	(2.491)	-	0.127	(0.725)	Contango	Rising
Apr-99	(0.089)	(3.043)	-	0.099	(0.019)	Backwardated	Rising
May-99	0.014	(0.850)	-	(0.037)	0.017	Backwardated	Rising
Jun-99	(0.132)	(0.244)	-	(0.261)	(0.581)	Contango	Rising
Jul-99	(0.178)	(2.343)	-	0.068	0.233	Contango	Rising
Aug-99	(0.084)	(1.445)	-	0.098	0.417	Contango	Rising
Sep-99	(0.121)	(2.653)	-	0.081	(0.766)	Backwardated	Rising
Oct-99	0.101	0.466	-	(0.193)	0.055	Backwardated	Falling
Nov-99	0.159	(1.940)	-	(0.255)	0.044	Backwardated	Rising
Dec-99	0.020	(1.943)	-	(0.256)	(0.030)	Backwardated	Rising
Jan-00	(0.346)	(1.966)	-	(0.940)	(1.645)	Backwardated	Rising
Feb-00	0.056	(3.380)	-	(1.082)	(1.008)	Backwardated	Rising
Mar-00	0.041	(2.177)	-	(1.241)	(1.416)	Backwardated	Rising
Apr-00	(0.190)	3.025	-	(2.077)	(1.488)	Backwardated	Falling
May-00	0.374	(3.542)	-	(0.871)	(0.640)	Backwardated	Rising
Jun-00	(0.147)	(3.737)	-	(0.391)	(0.901)	Backwardated	Rising
Jul-00	0.365	0.355	-	(1.424)	(0.236)	Backwardated	Falling
Aug-00	(0.359)	(1.837)	-	(1.382)	(1.631)	Backwardated	Rising
Sep-00	(0.009)	(3.941)	-	(0.506)	(0.588)	Backwardated	Rising
Oct-00	(0.186)	0.140	-	(1.207)	(1.623)	Backwardated	Falling
Nov-00	0.193	(2.047)	-	(0.452)	0.572	Backwardated	Rising
Dec-00	(0.045)	4.486	-	(1.225)	(0.490)	Backwardated	Falling
Jan-01	(0.135)	(0.367)	-	(1.065)	(1.541)	Backwardated	Rising
Feb-01	0.216	(1.838)	-	(1.221)	(2.248)	Backwardated	Rising
Mar-01	(0.171)	1.771	-	(0.687)	(0.273)	Contango	Falling
Apr-01	(0.186)	(0.204)	-	0.035	0.255	Contango	Rising
May-01	(0.264)	(1.278)	-	0.275	1.077	Contango	Rising
Jun-01	(0.052)	1.503	-	0.500	0.940	Contango	Falling
Jul-01	0.041	1.715	-	0.192	(0.615)	Backwardated	Falling
Aug-01	(0.014)	(1.129)	-	(0.183)	(0.897)	Backwardated	Rising
Sep-01	0.904	0.982	-	(0.696)	1.548	Contango	Falling
Oct-01	(0.139)	4.723	-	0.151	(0.499)	Contango	Falling
Nov-01	(0.001)	2.989	-	0.400	1.272	Contango	Falling
Dec-01	0.013	1.048	-	0.281	(0.078)	Contango	Falling
Jan-02	(0.049)	(0.390)	-	0.371	0.667	Contango	Rising
Feb-02	0.064	(0.411)	-	0.469	0.076	Contango	Rising
Mar-02	0.098	(3.757)	-	0.357	(0.392)	Contango	Rising
Apr-02	(0.126)	(2.283)	-	0.288	0.384	Contango	Rising
May-02	0.047	(0.780)	-	0.110	(0.796)	Backwardated	Rising
Jun-02							
Jul-02							
Aug-02							
Sep-02							
Oct-02							
Nov-02							
Dec-02							
Average: 3/87 - present	(0.034)	(0.251)		(0.225)	(0.207)		
Percentage	34%	44%		40%	38%		
Average: 1/99 - present	(0.009)	(0.710)		(0.319)	(0.331)		
Percentage	41%	32%		46%	37%		

HLS Comparison
v.NYMEX Plus Roll

Average: 6/00 - present	0.002	(0.179)	(0.292)	(0.251)
Percentage	38%	42%	50%	38%

Positive numbers = Methodology exceeds NYMEX (Roll) methodology
(Negative numbers) = NYMEX (Roll) methodology exceeds compared methodology
Percentage = Number of months compared methodology exceeded NYMEX (Roll) Methodology