

WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

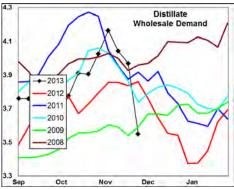
A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 www.fundamentalpetroleumtrends.com Wednesday, December 04,

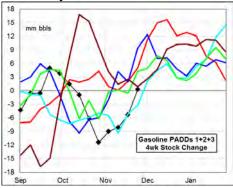


Major Fundamental Trends¹

Middle distillate wholesale demand fell -750,000 bpd last week, which likely includes a pull back in exports for the week. As a result, stocks of middle distillates increased a combined +3 million barrels on the week.



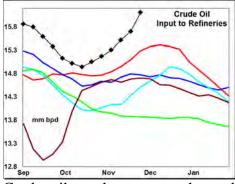
Gasoline stocks increased 1.8 million barrels last week as the East coast supply balance continued to improve. The latest 4-wk stock change in markets east of the Rockies was a build of +0.9 million barrels, compared to an average build of +6 million barrels for the last 2-yrs.



Look for significant stock building during the next 30-days on peak seasonal crude oil runs, above average imports and record crude oil runs.

Gulf refiners returned to operation last week, with a +0.5 million bpd increase in crude oil runs for the region. Refinery crude oil runs for the latest 4-wk period were above last year in all regional markets; rising a combined +0.6 million bpd.





Crude oil stocks were unchanged last week in Cushing, with the draw concentrated in the Gulf and West Coast. The surge in crude oil runs in the Gulf and lower imports on the West Coast account for the stock draw.

Startup of the Keystone south line from Cushing to the Gulf early next year risk moving the over supply of domestic crude oil from the midwest to the Gulf coast.

Demand for jet fuel plunged -0.3 million bpd last week, while distillate also fell -0.5 million bpd. Wholesale demand, measured over the last four weeks compared to a year ago: gasoline increased +3.3%; distillate was +0.1% higher; jet fuel was +8% higher, and residual decreased -34%.

Stocks forward coverage: Gasoline demand coverage increased on a +1.8 million barrel stock build, partially offset by robust demand. Coverage ended the week at a level equal to the 3-yr mid range.

Distillate coverage increased to a level near last year, on a +2.6 million barrel stock build and -0.5 million bpd drop in wholesale demand.

Jet fuel coverage increased on a +0.3 million barrel stock build and +-275,000 bpd drop in wholesale demand. Coverage levels remain well below the 5-yr range.

Residual fuel oil coverage increased on a -177,000 bpd drop in wholesale demand, with stocks unchanged.

Refinery utilization rates jumped on a +0.6 million bpd rise in crude oil runs.

During the latest 4-wk period crude oil input was +0.6 million bpd above a year ago.

Gasoline yield % on crude oil runs plunged on a -0.4 million bpd decrease in output compared to the +0.6 million bpd jump in crude oil runs. Yield % on crude oil runs ended the week at a record low level.

Distillate yield % on crude oil runs fell last week, on a +89,000 bpd rise in output compared to the surge in crude oil thru put. The yield % on crude oil runs was above four of the last 5-yrs.

Jet fuel yield % on crude oil runs increased on a +62,000 bpd increase in output, compared the surge in crude oil runs. The yield % level matched 5-yr highs.

Petroleum Imports/Exports: Imports of crude oil increased +91,000 bpd last week. Imports of jet fuel fell sharply last week while distillate increased and gasoline was nearly unchanged.

During the latest 4-wk period crude oil *imports* were -0.2 million bpd below last year; distillate imports were -31,000 bpd lower; finished gasoline imports decreased -15,000 bpd, gasoline blend stock imports were +37,000 bpd higher; jet fuel imports increased +42,000 bpd, while residual fuel oil imports were -91,000 bpd lower.

The latest weekly *export* estimate saw a +25,000 bpd increase in gasoline, a +368,000 bpd jump in distillate and +28,000 bpd rise in jet fuel compared to a year ago.

Crude Oil stocks fell -5.6 million barrels last week, driven by a +0.6 million bpd jump in crude oil refinery runs.

Cushing stocks were unchanged on the week. Look for the oversupply of crude oil to move from Cushing to the Gulf during the next quarter as the Keystone South line is placed into service early next month (700,000 bpd capacity).



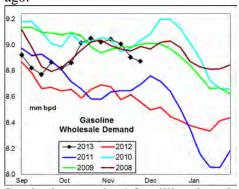
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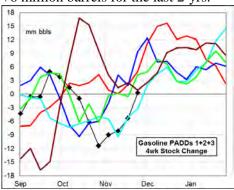
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Product Supply-Demand Trends

Gasoline wholesale demand decreased -36,000 bpd last week although the level remains well above the last 2-yrs. The latest 4-wk average demand was +288,000 bpd above a year ago. Supply fell -452,000 bpd on a drop in production. Supply for the latest 4-wk period was +205,000 bpd above a year ago.



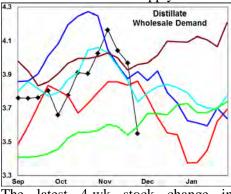
Stocks increased +1.8 million barrels last week, to a level comparable with the last 4-yr average. The latest 4-wk stock change in markets East of the Rockies was a +0.9 million barrel build, compared to an average build of +6 million barrels for the last 2-yrs.



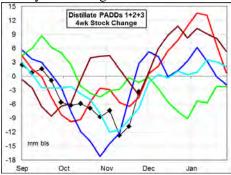
Look for a near term rebound in production following the +0.5 million bpd rise in crude oil runs last week. Combined with lower seasonal demand, stocks should witness meaningful builds during the next 60days. Regional markets outside of the continue Northeast should experience over supply.

Distillate wholesale demand fell -0.5 million bpd last week to a level below the 5-yr range. The latest 4-wk average demand was +2,000 bpd above last year. Supply increased +142,000

bpd last week on higher imports and production. The latest 4-wk average supply was +304,000 bpd above last year. Stocks increased +2.6 million barrels on the week, on the drop in demand and increased supply.



The latest 4-wk stock change in markets East of the Rockies was a -4.1 million barrel draw, a draw equal to the 3-yr mid range.

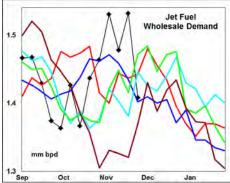


Look for production to remain at a record high level and seasonal peak for the next month. Combined with lower sesonal demand, stocks should continue to build for the next month. A record rate of exports will limit stock building in the key East and Gulf regional markets.

Jet Fuel wholesale demand plunged - 275,000 bpd last week to a level near 5-yr lows for the period. The latest 4-wk average demand was +115,000 bpd above a year ago.

Supplies decreased -43,000 bpd on the week, the result of a collapse in imports. Production reached an alltime high for the winter quarter. Supply for the latest 4-wk period was +166,000 bpd above a year ago. Stocks increased +0.3 million barrels last week, to a level -10% below a year ago.

A record level of production and seasonal pull back in demand should lead to some modest improvement in stock levels. However, risk of a widespread supply squeeze exists during the holiday travel season.



Residual fuel oil demand fell -177,000 bpd last week. Demand for the latest 4-wk period was -123,000 bpd below a year ago.

Residual Fuel Oil
Wholesale Demand

0.7

0.6

0.5

0.4

0.2

Sep Oct Nov Dec Jan

Supply (production + imports) decreased -42,000 bpd on lower imports. Production was -4% below a year ago for the latest 4-wk period. Stock levels ended the week -10% below last year and below the historic range.

Production in the Gulf region was -56,000 bpd (-22%) below a year ago for the most recent 4-wks. Imports were unchanged from last year. The collapse in residual fuel oil supplies, has led to a -2 million barrel draw in the key gulf region, with the level now below the last 3-yrs.



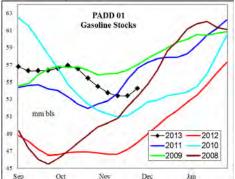
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PADD Supply Trends

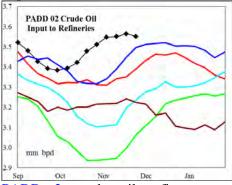
PADD 1 refinery crude oil runs increased +15,000 bpd last week; with the latest 4-wk average +92,000 bpd above last year.



Gasoline supply decreased -16,000 bpd on the week, with the level slightly above the last 3-yrs. Stocks increased +0.8 million barrels, a level above the latest 3-yr mid range.

Distillate supply jumped +131,000 bpd last week, on higher production and imports. Stocks increased +1.5 million barrels on the week, to a level near year ago lows.

Jet fuel stocks ended the week at a level below the 5-yr range on a drop in imports.



PADD 2 crude oil refinery runs declined -69,000 bpd last week, with the latest 4-wk average +217,000 bpd above last year. Crude oil stocks decreased -0.8 million barrels last week. Stocks were unchanged in Cushing OK.

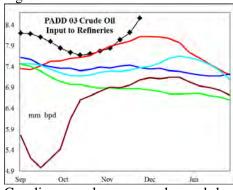
Gasoline production increased +21,000 bpd last week with the level well above the historic range. Production for the most recent 4-wk period was +354,000 bpd above a year

ago. Stocks increased +0.1 million barrels on the week, to a level near the 3-yr mid range.

Distillate supply declined -17,000 bpd last week, with the 4-wk average +108,000 bpd above last year. Stocks increased +0.8 million barrels to match last year's lows.

Jet fuel production decreased - 31,000 bpd to a level below the 3-yr mid range. Stock levels ended the week -15% below a year ago and well below the 5-yr range.

PADD 3 refinery runs jumped +0.5 million bpd last week to a record high level. During the latest 4-wk period, average runs were +160,000 bpd above last year. Crude oil stocks decreased -2.8 million barrels last week, +12.7 million barrels above the prior record high.



Gasoline supply was unchanged last week, with the latest 4-wk average - 59,000 bpd below a year ago. Stocks increased +0.1 million barrels last week.

Distillate supply increased +90,000 bpd on the week, with the latest 4-wk average supply +185,000 bpd above last year. Stocks increased +0.3 million barrels last week, to a level +7% above last year.

Jet fuel production increased +25,000 bpd on the week, with the level above the 5-yr range. Stocks increased +0.5 million barrels on the week to a level -7% below a year ago.

Residual fuel supply decreased - 31,000 bpd on lower imports. Stocks were unchanged on the week at a level below the each of the last 3-yrs.

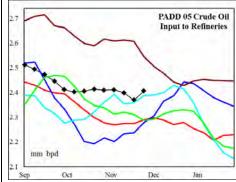
PADD 4 refinery crude runs increased

+14,000 bpd last week, to a level above the historic range. Crude oil stock levels were +11% above the previous record high, while imports were near the 3-yr mid range.

Gasoline production decreased - 13,000 bpd on the week, to a level +45,000 bpd above last year. Stocks levels were above the historic range.

Distillate production decreased - 3,000 bpd on the week, to a level -8% below the last 2-yrs. Stocks increased +0.1 million barrels to a level near historic highs.

Jet fuel production and stock levels each were below the 3-yr mid range. PADD 5 crude oil refinery runs increased +57,000 bpd last week to a level equal to 3-yr highs for the period. The latest 4-wk run rate was +105,000 bpd above a year ago.



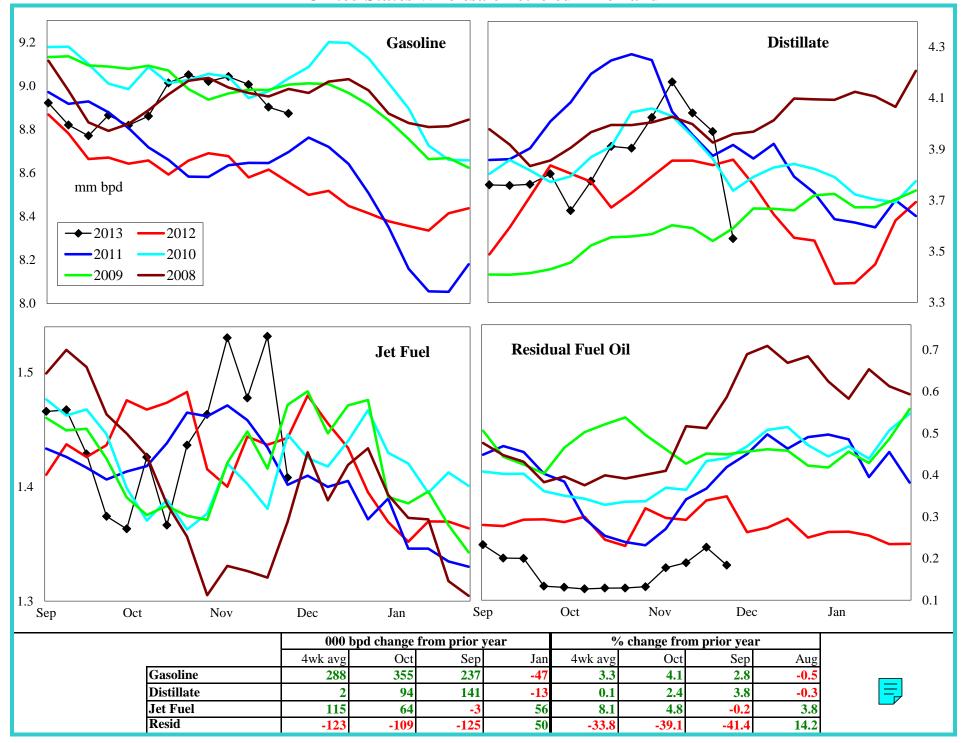
Gasoline supply declined -34,000 bpd on the week with production at record highs for this time of year. The latest 4-wk average supply was +86,000 bpd above a year ago. Stocks increased +0.9 million barrels last week, to a level above the 3-yr mid range.

Distillate supply fell -59,000 bpd, to a level above the 3-yr mid range. The latest 4-wk average supply was +36,000 bpd above last year. Stocks decreased -0.1 million barrels last week, to a level at the low end of the historic range.

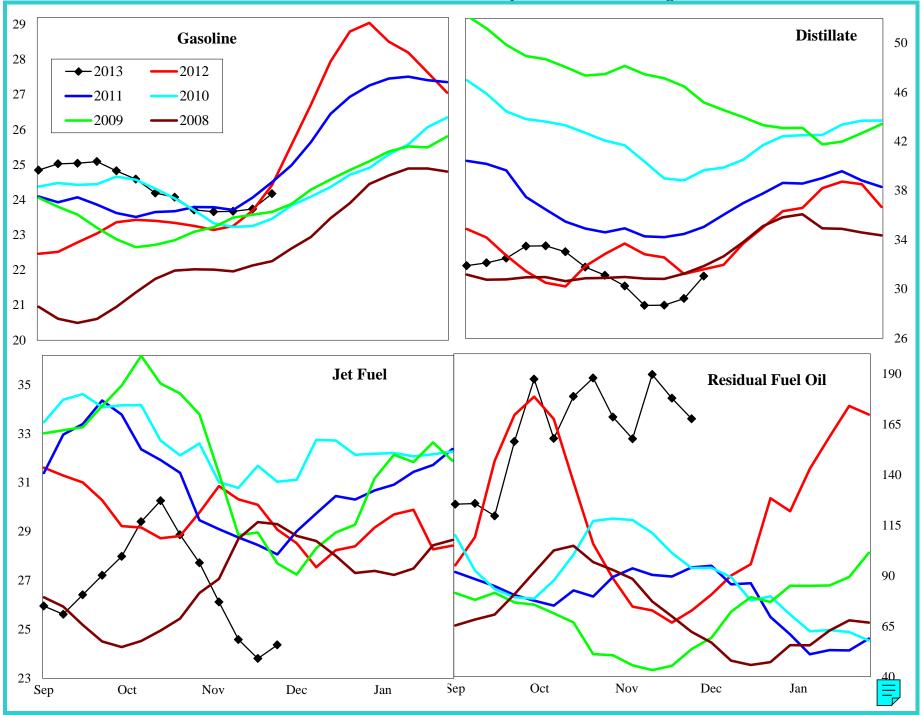
Jet fuel supply declined -19,000 bpd last week, on a sharp drop in imports. Production climbed to a record high for this time of year. Stocks were unchanged on the week at a level below the 5-yr range.

FUNDAMENTAL PETROLEUM: Graph Link and Weekly Summary A Fundamental Petroleum Trends Weekly Report December 4, 2013 ehi German Tel: 816.505.0980 www.fundamentalpetroleumtrends.com Stocks Days Refinery Utilization Imports							
Fundamental	Wholesale	Stocks Days		Refinery Utilization			
Trends	Demand	Fwd Coverage		Product Yield %			<u>Imports</u>
Supply/Demand Trends	29-Nov-13	EIA-DOE CHANGE FROM PRIOR WEEK					
	000 bpd	U.S.		PADD			
	stocks 000 bls	Total	1	2	3	4	5
Crude Oil	Stocks	-5,585	307	-795	-2,775	-93	-2,228
	Imports	91	345	-128	73	-47	-151
	Input	555	15	-69	537	14	57
	% Utilization	3.00					
Gasoline	Stocks	1,828	752	137	108	-67	899
	Production	-443	0	21	-25	-13	-17
	Imports	-9	-16	-1	23	0	-17
	Supplied	-36					
<u>Distillate</u>	Stocks	2,649	1,493	796	298	147	-85
	Production	89	75	-17	90	-3	-56
	Imports	53	56	0	0	0	-3
	Supplied	-474					
<u>Jet Fuel</u>	Stocks	339	-80	-151	485	73	13
	Production	62	2	-31	25	1	63
	Imports	-105	-23	0	0	0	-82
	Supplied	-275					
	Stocks	6	-284		25	4	198
Residual	Production	34	5	15	16	0	-3
<u>Fuel Oil</u>	Imports	-76	-38	2	-47	0	5
	Supplied	-177					

United States Wholesale Petroleum Demand

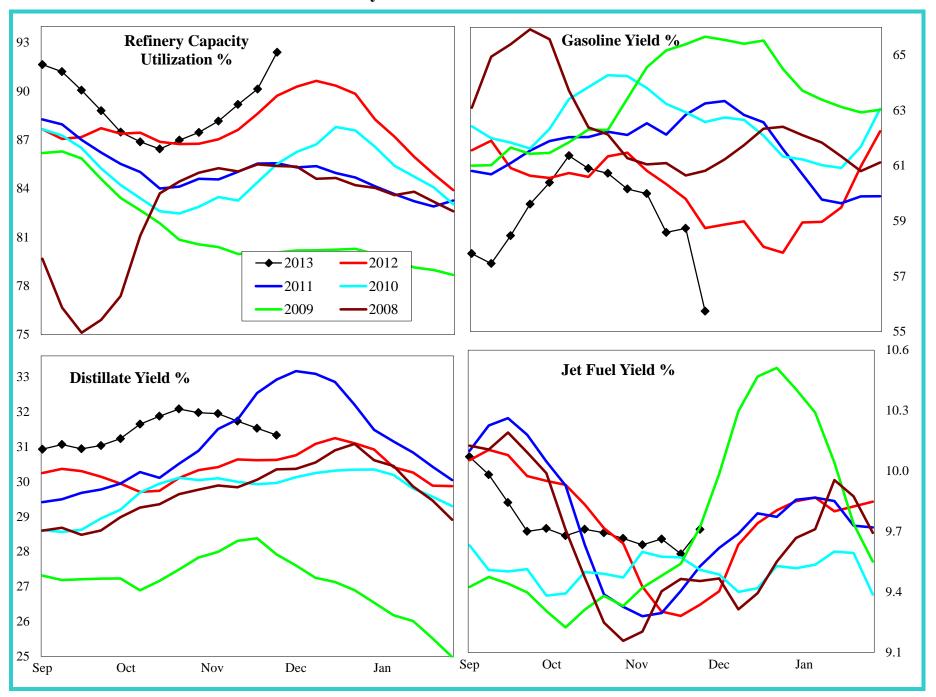


United States Product Stocks: Days Forward Coverage

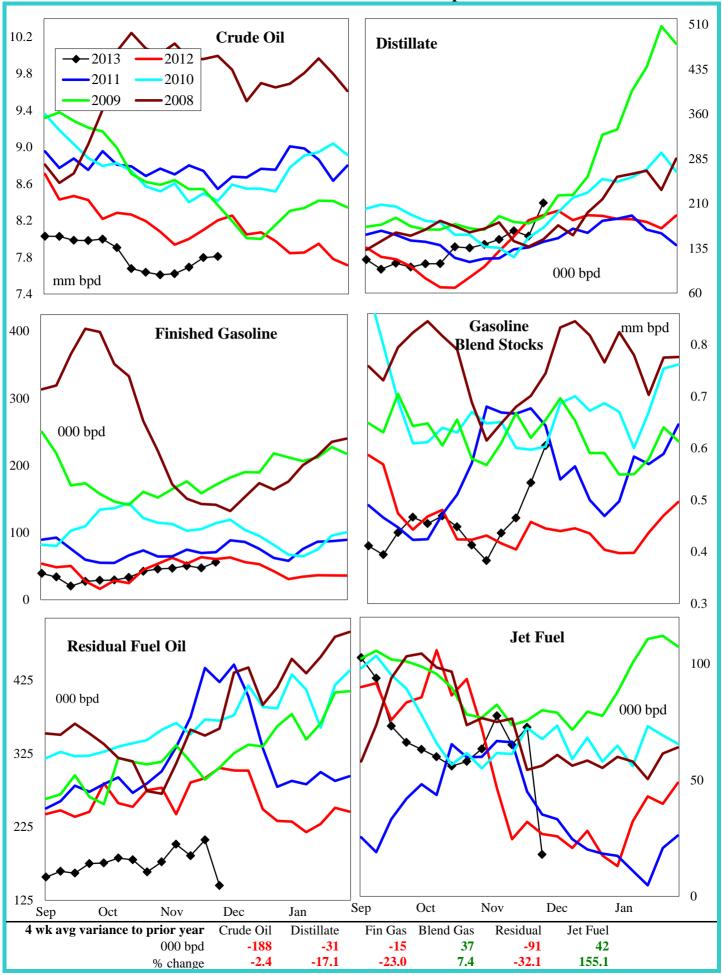


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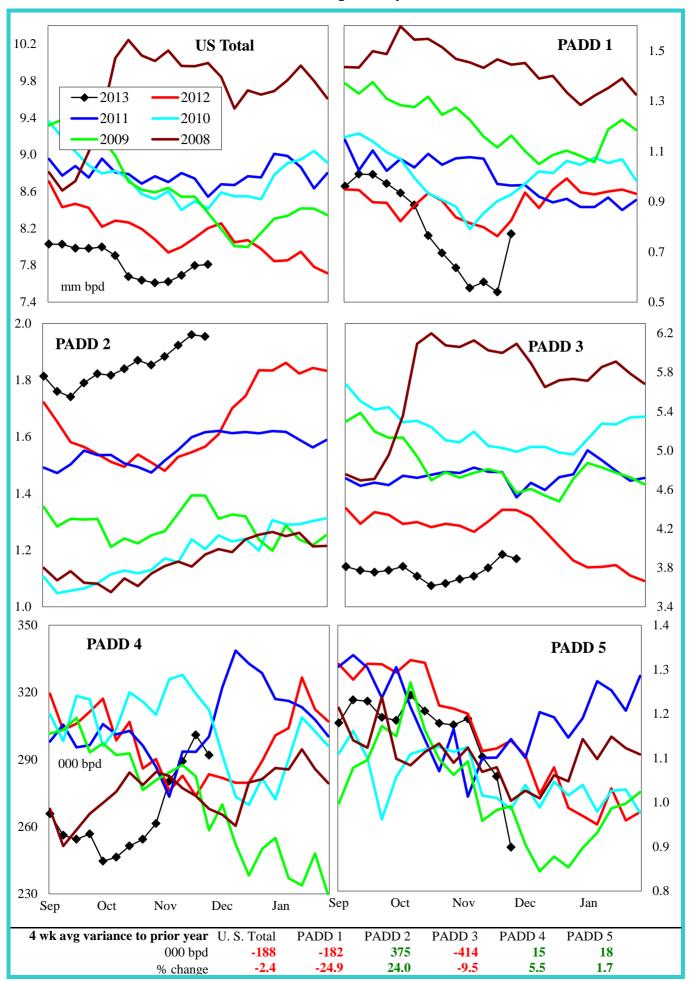
United States Refinery Percent Utilization Rate and Product Yields



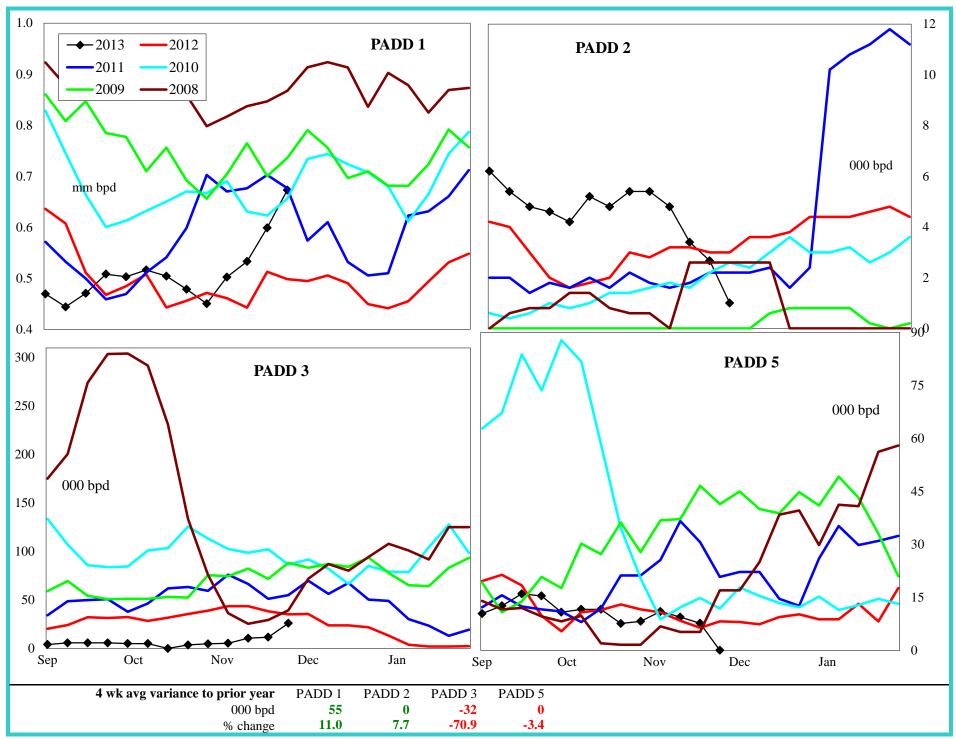
United States Petroleum Imports



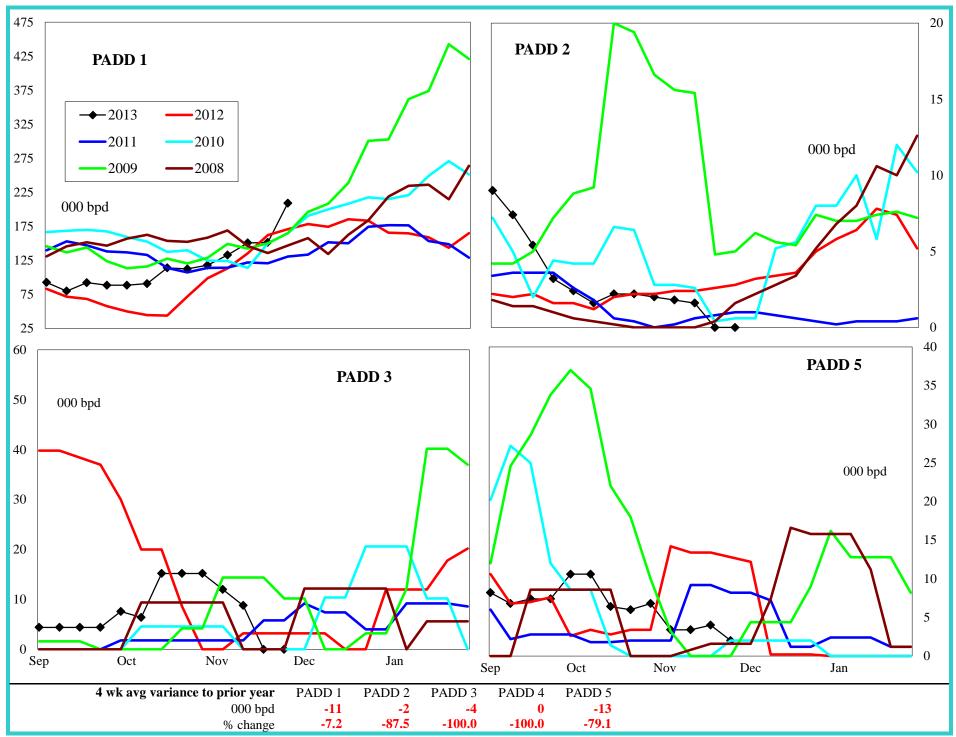
Crude Oil Imports by PADD



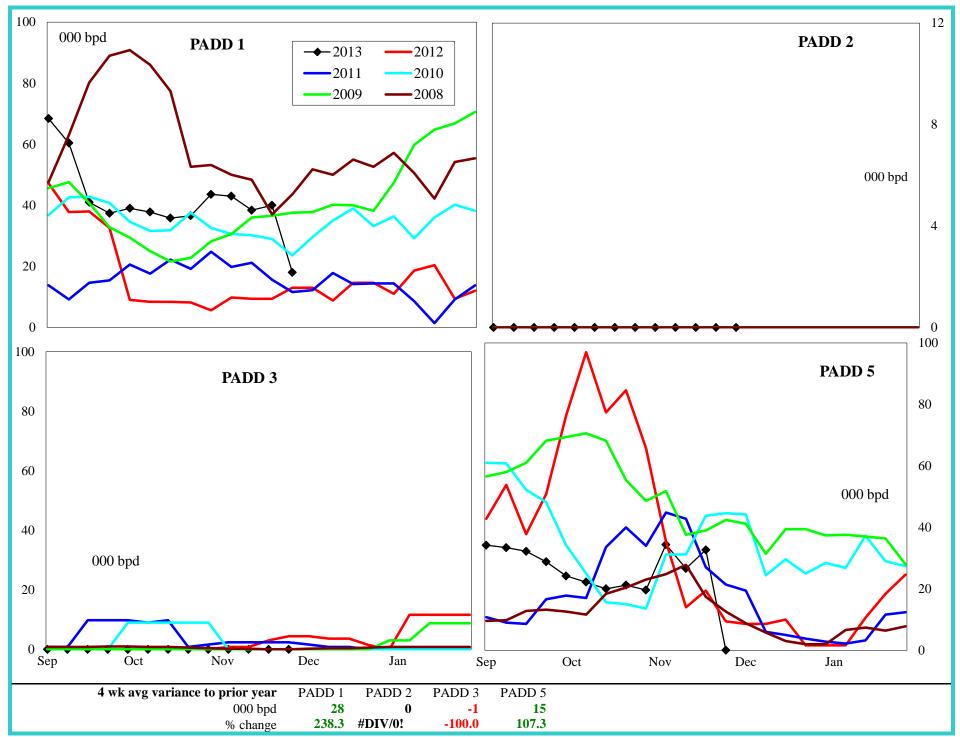
Gasoline Imports by PADD (Finished + Blend Stocks)



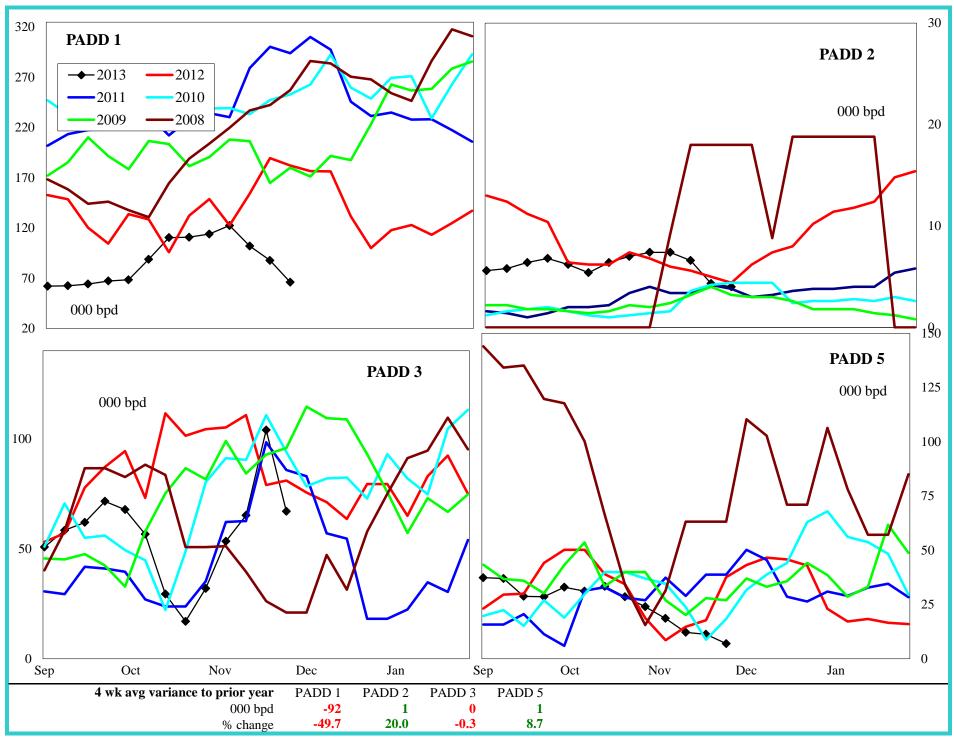
Distillate Imports by PADD



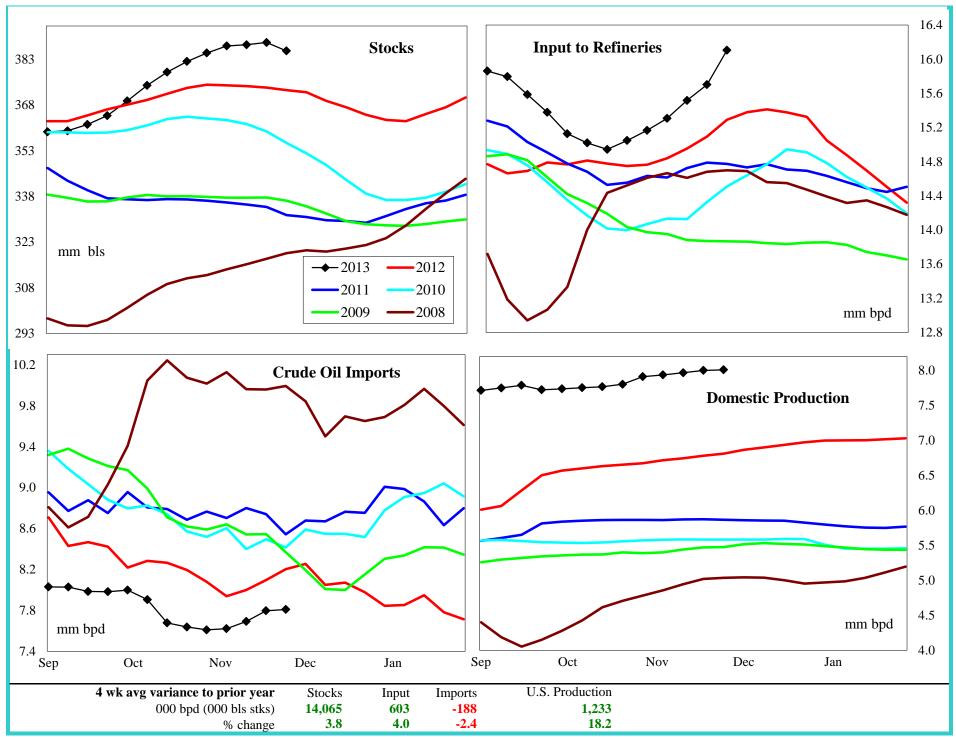
Jet Fuel Imports by PADD



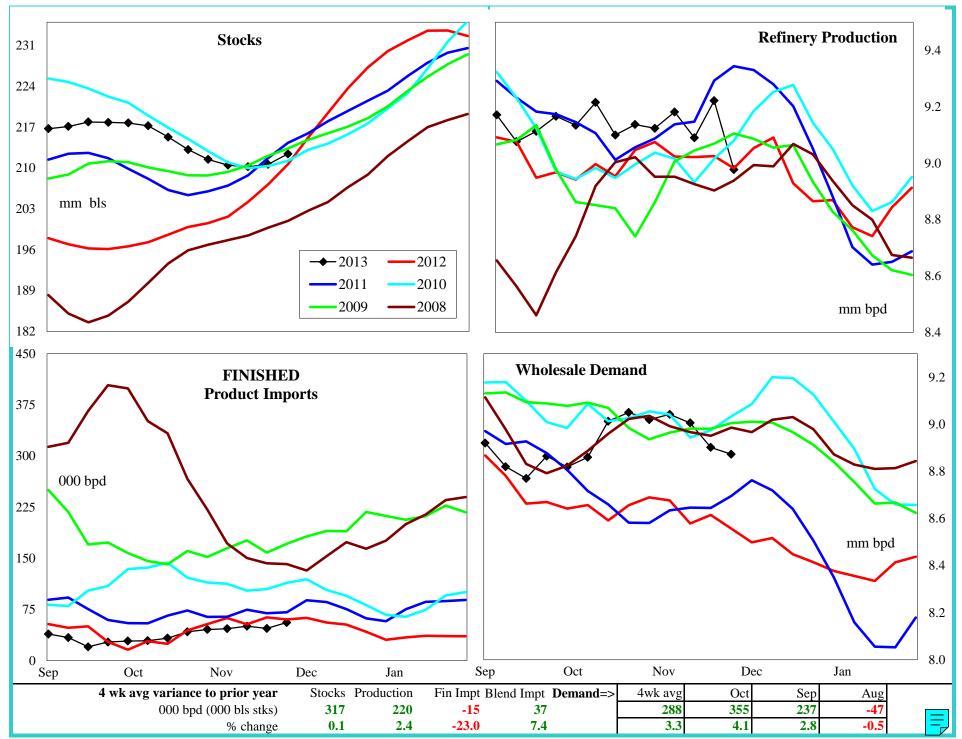
Residual Fuel Oil Imports by PADD



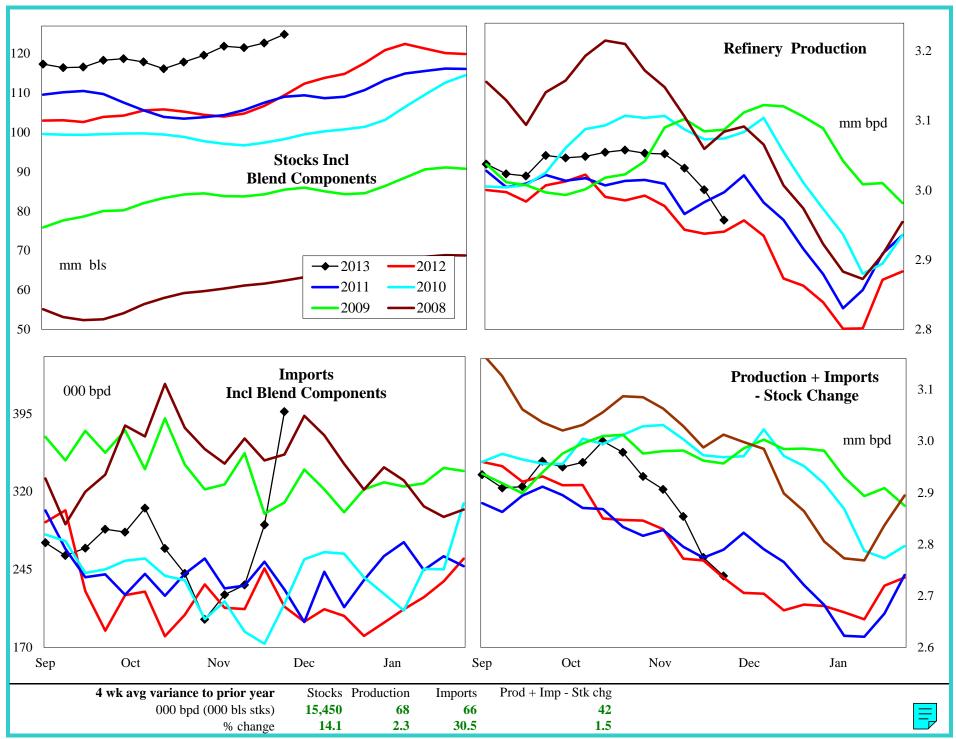
United States Crude Oil Supply and Demand Balance



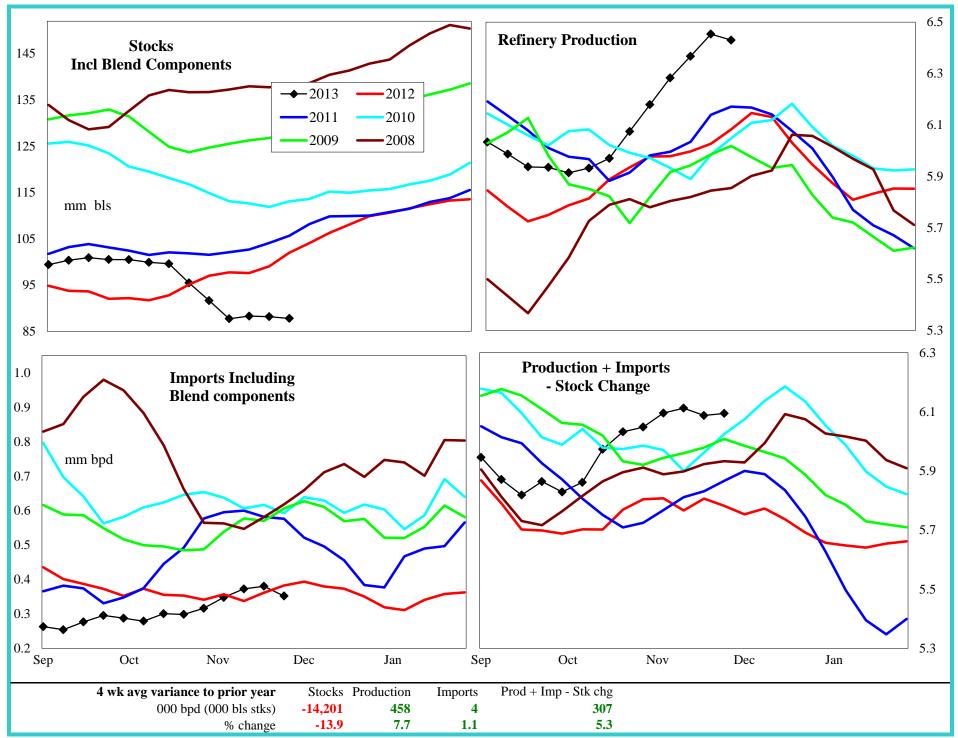
United States Gasoline Supply and Demand Balance



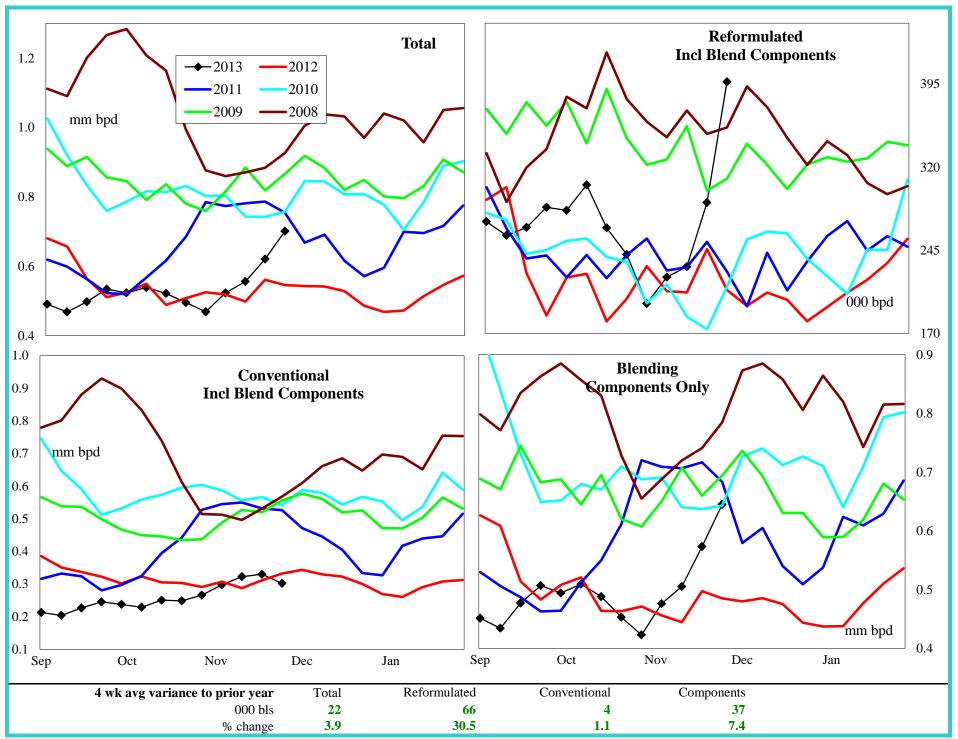
United States Reformulated Gasoline Supply



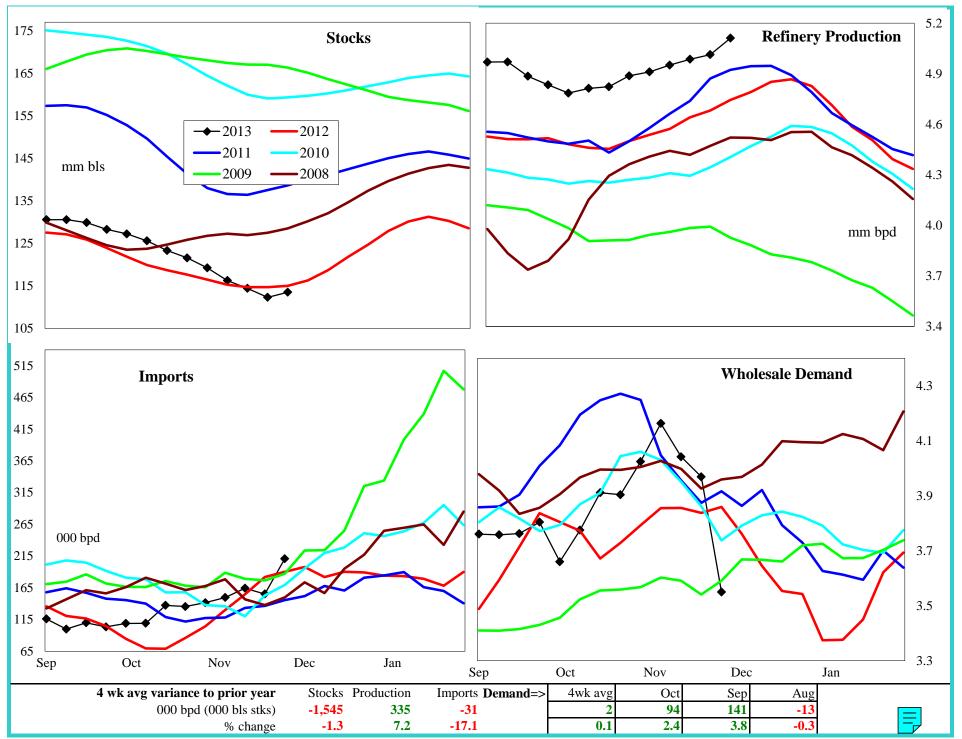
United States Conventional Gasoline Supply



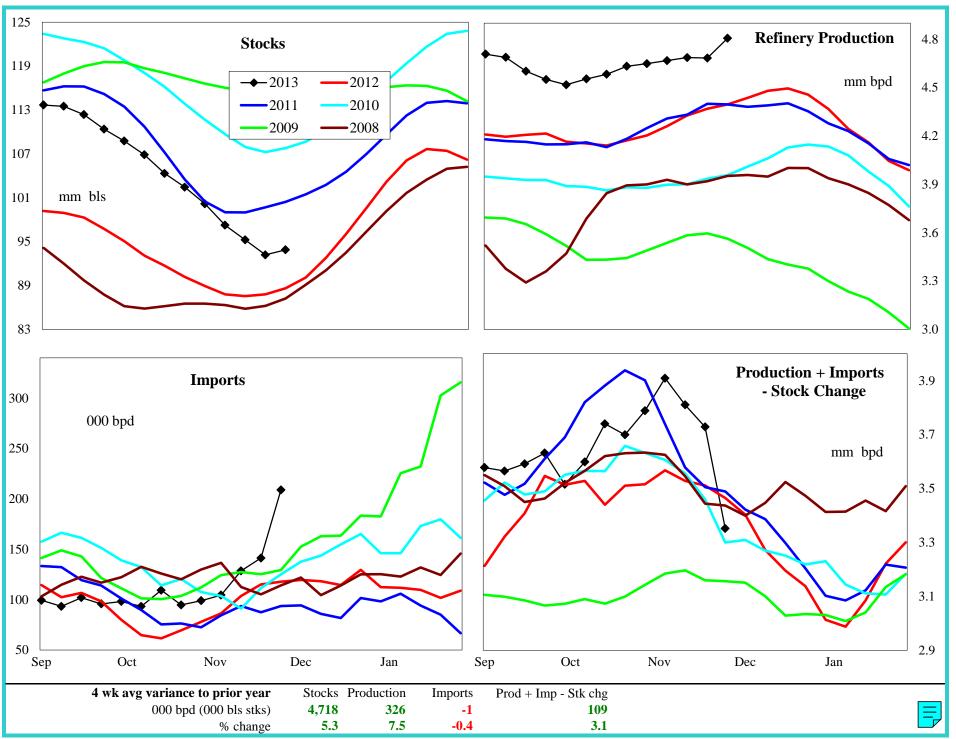
United States Gasoline Imports by Type



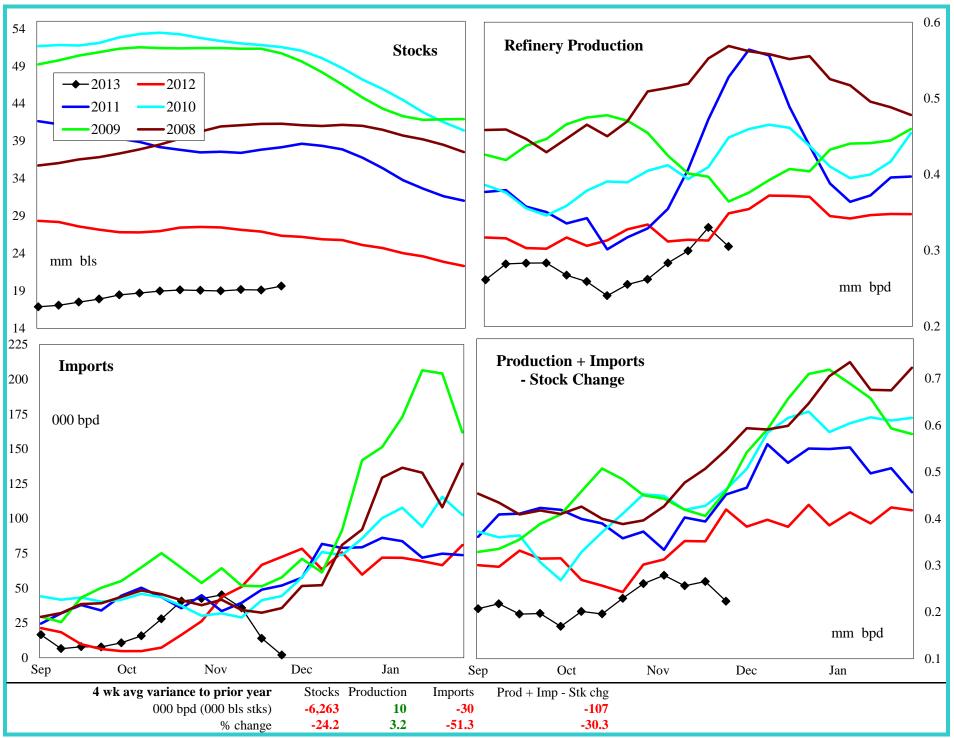
United States Distillate Supply and Demand Balance



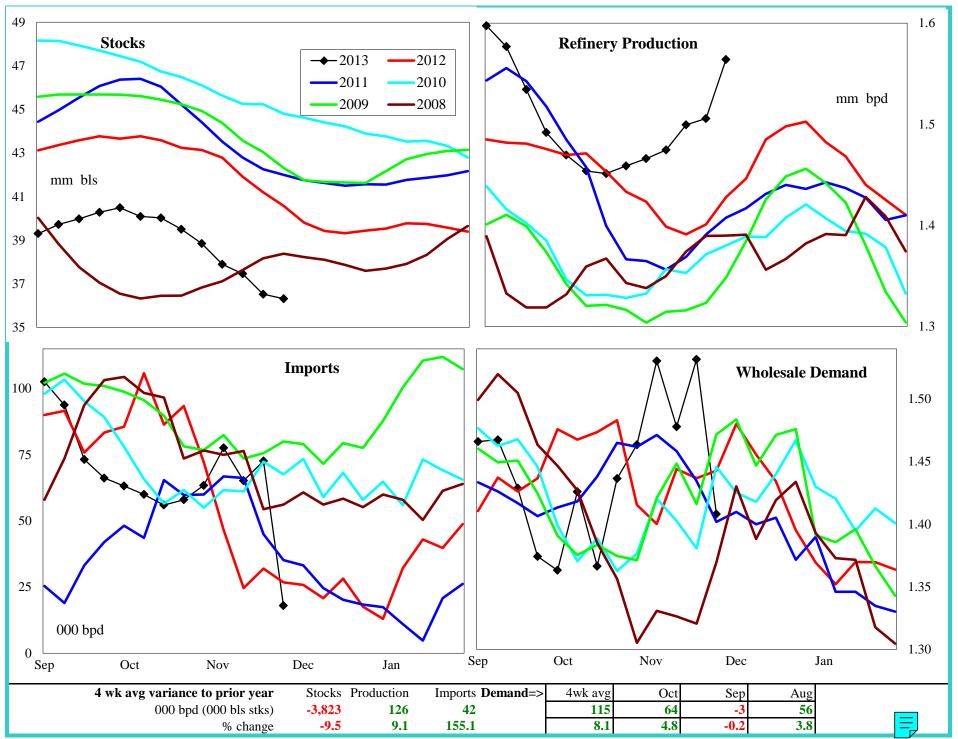
United States Low Sulfur Distillate Supply



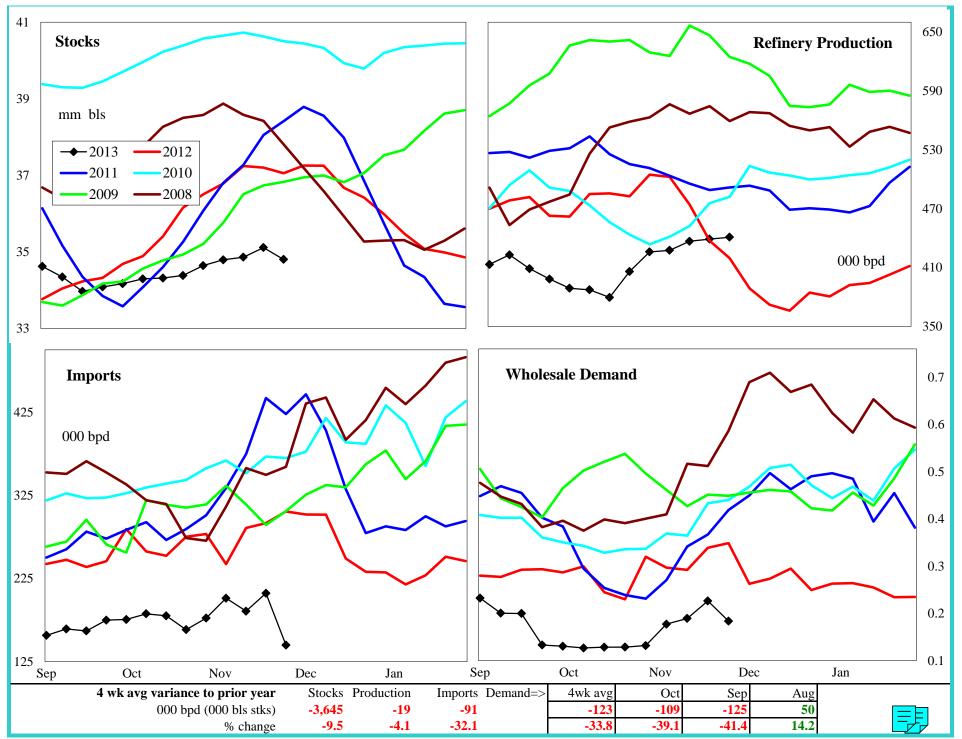
United States High Sulfur Distillate Supply



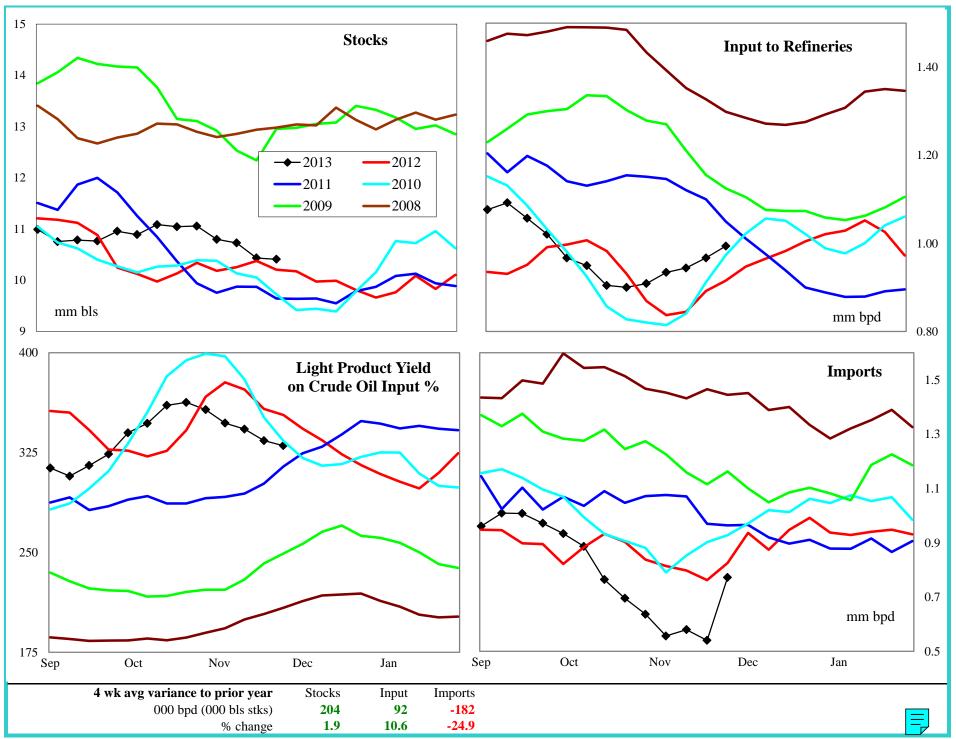
United States Jet Fuel Supply and Demand Balance



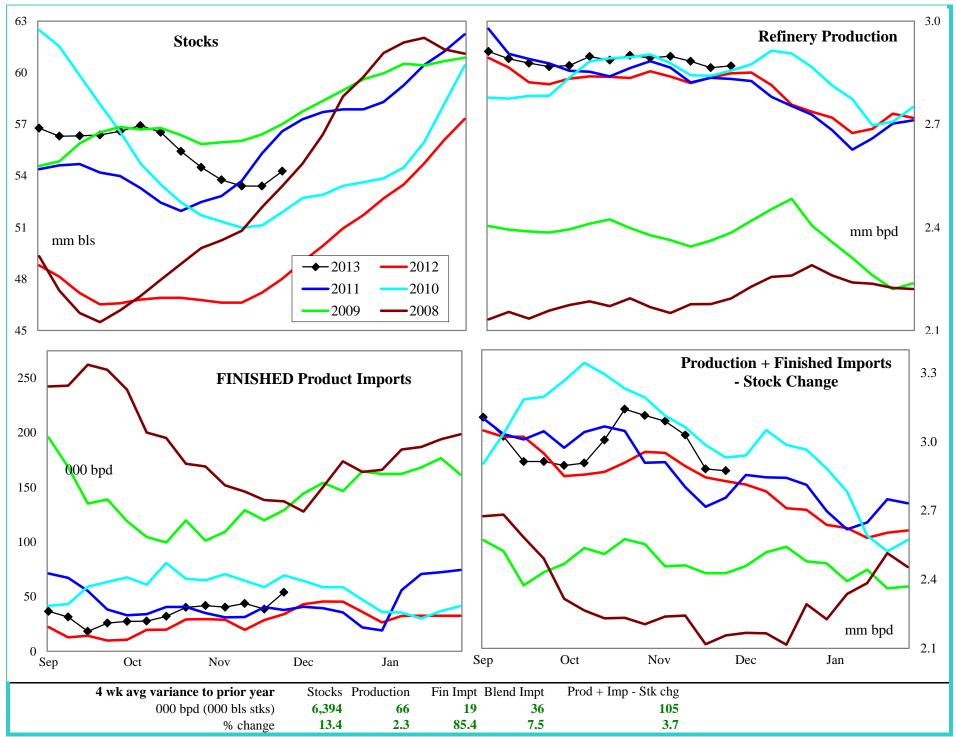
United States Residual Fuel Oil Supply and Demand Balance



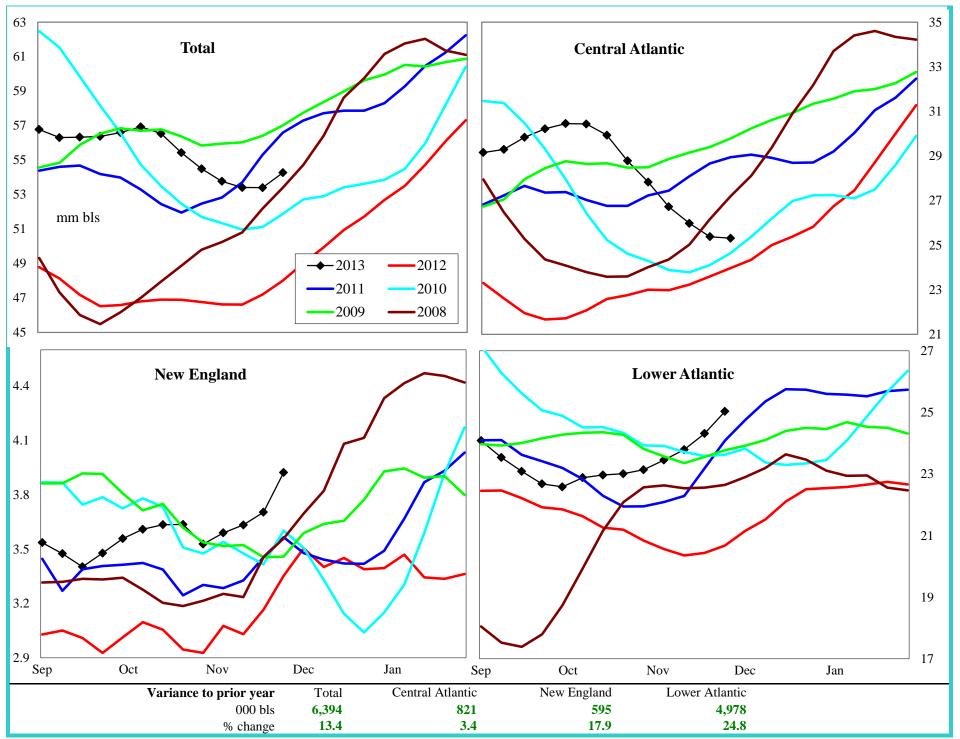
PADD 1 Crude Oil Supply and Refining



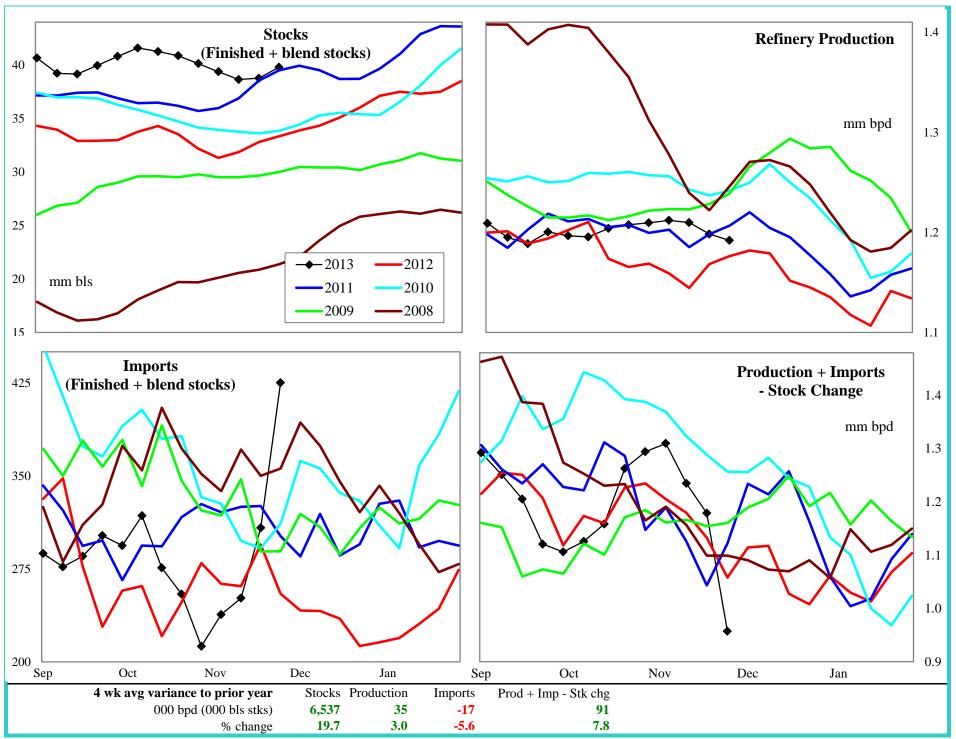
PADD 1 Gasoline Supply



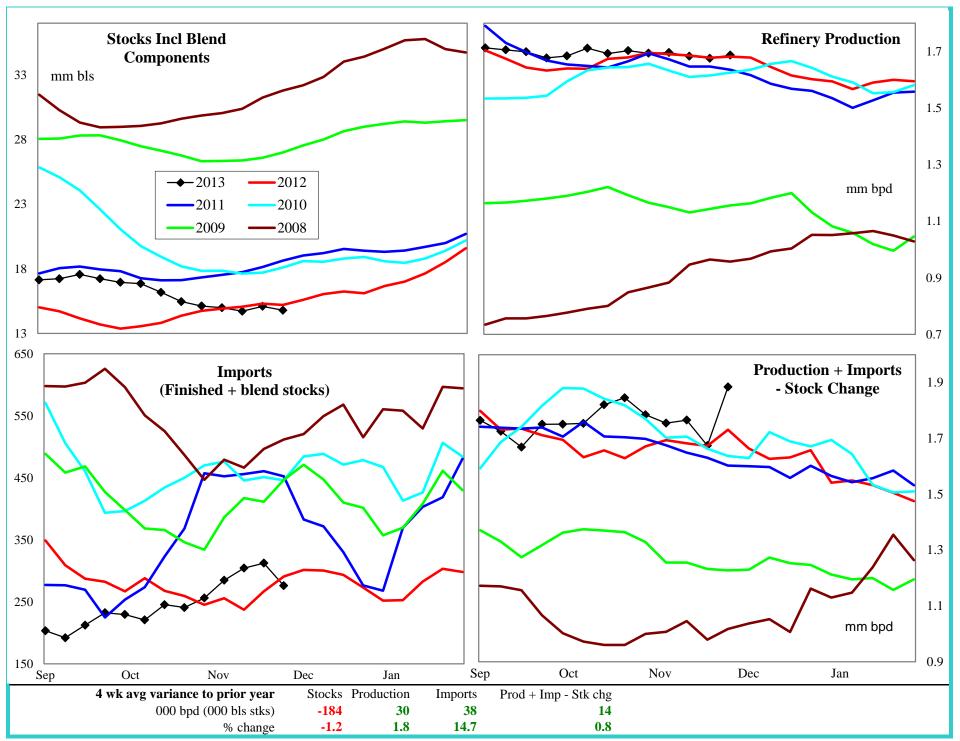
PADD 1 Gasoline Stocks by Region



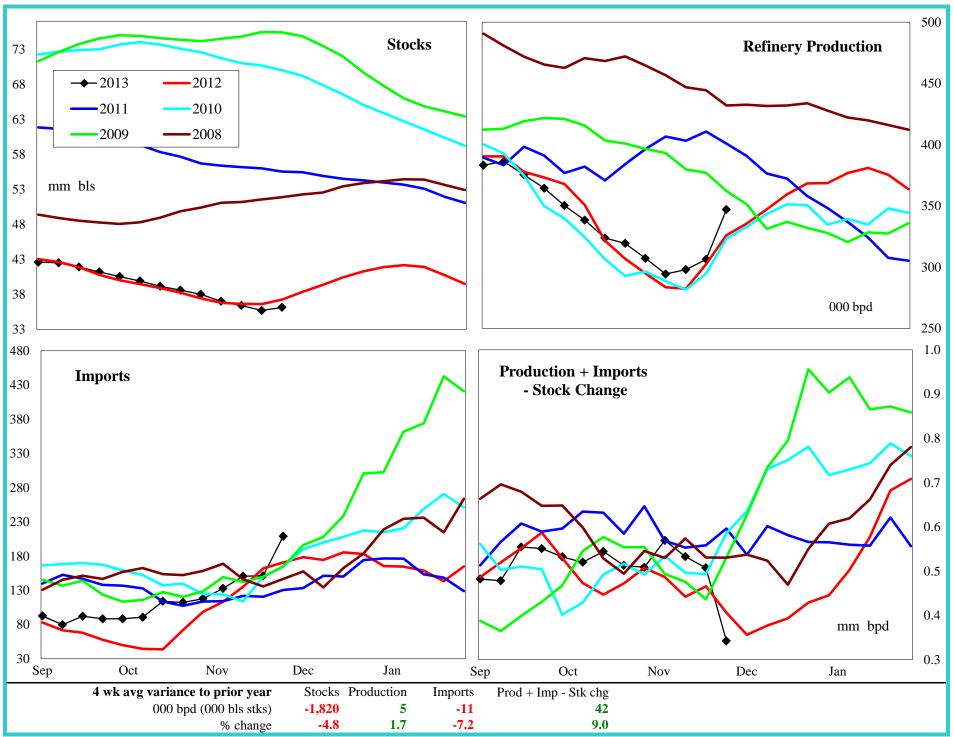
PADD 1 Reformulated Gasoline Supply



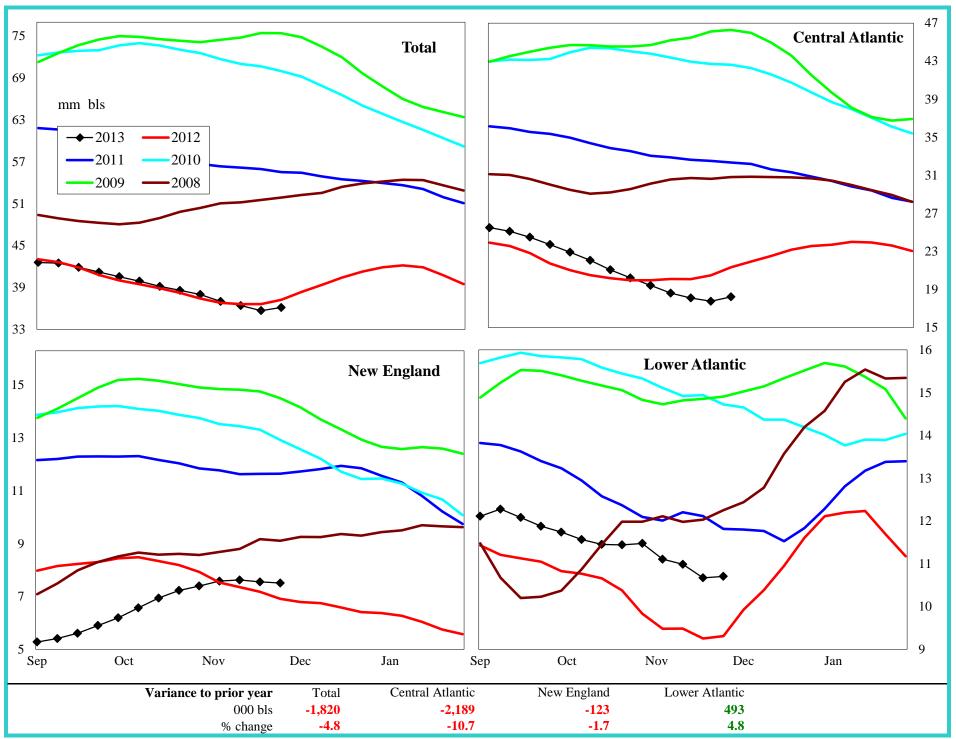
PADD 1 Conventional Gasoline Supply



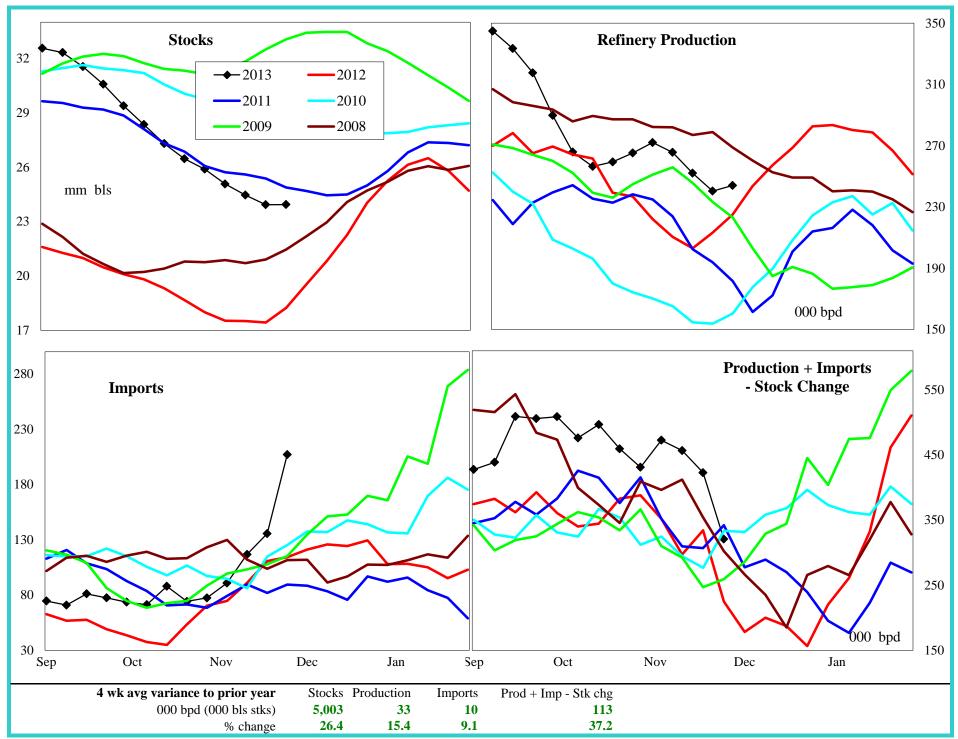
PADD 1 Distillate Supply



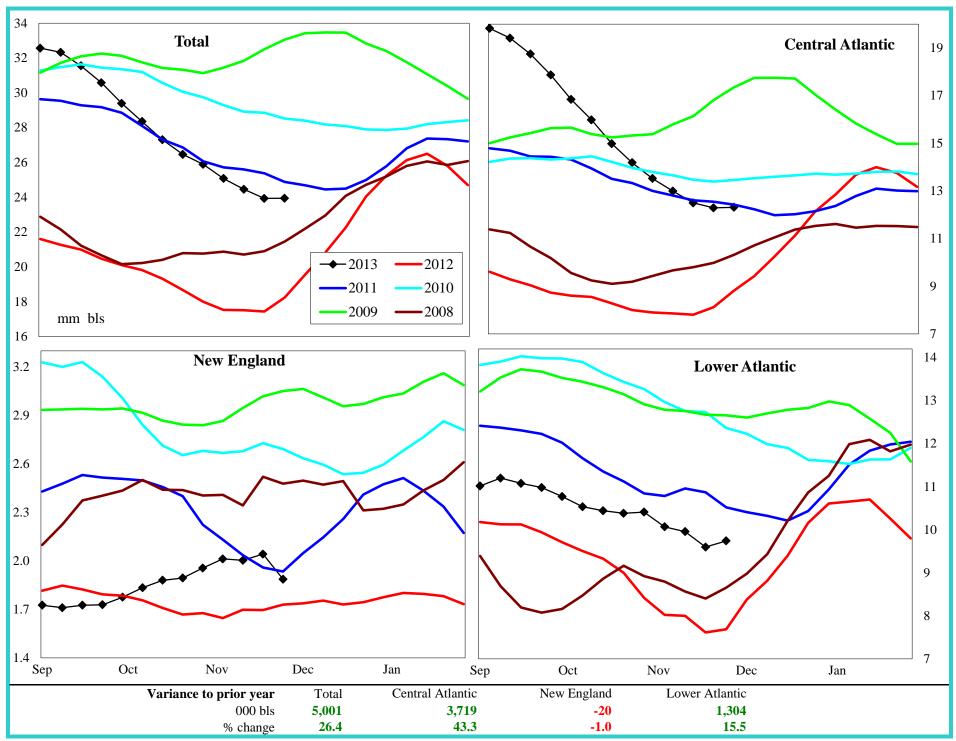
PADD 1 Distillate Stocks by Region



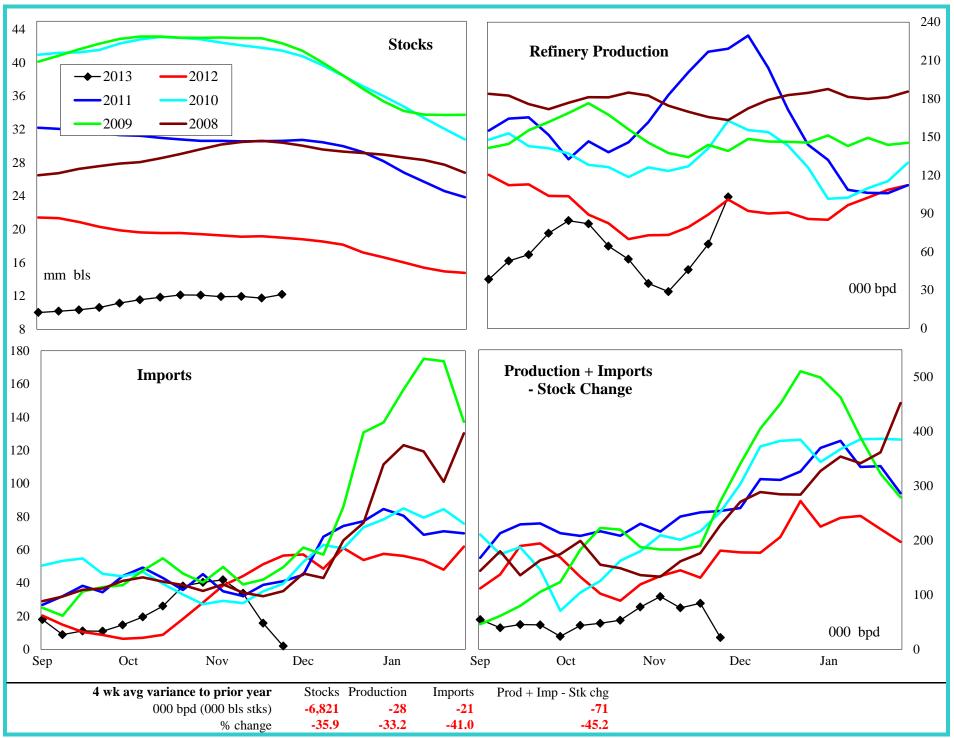
PADD 1 Low Sulfur Distillate Supply



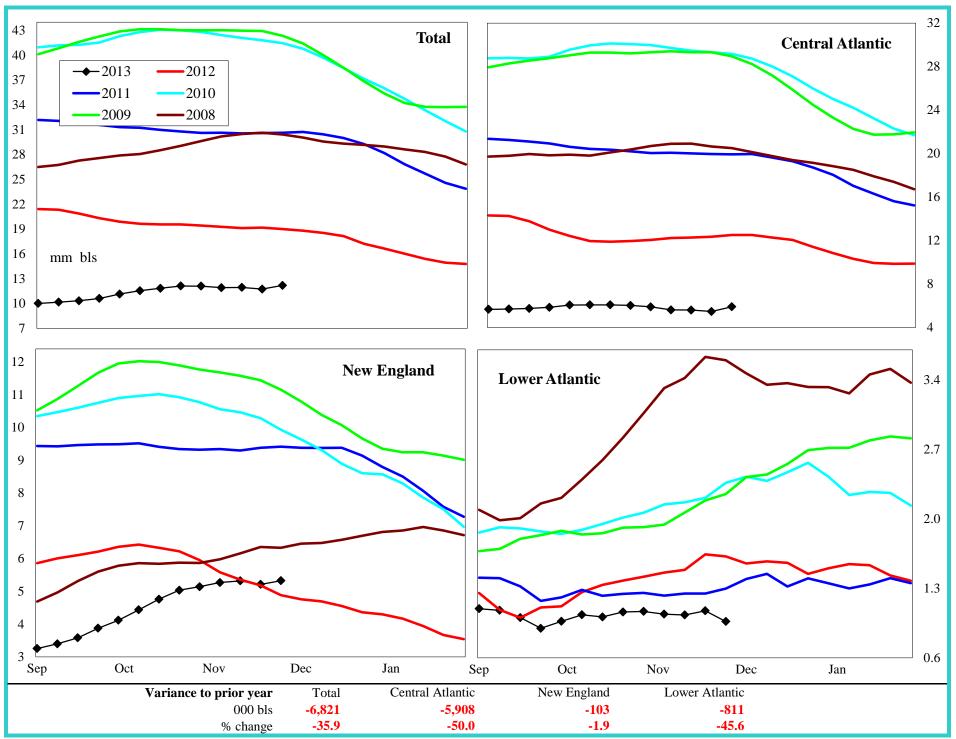
PADD 1 Low Sulfur Distillate Stocks by Region



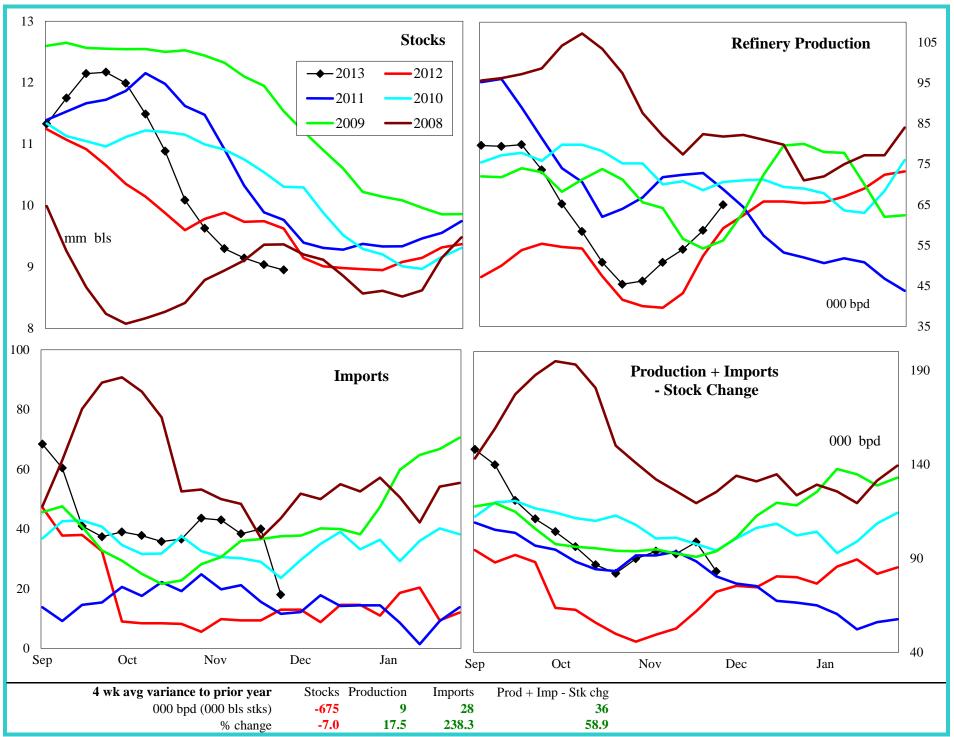
PADD 1 High Sulfur Distillate Supply



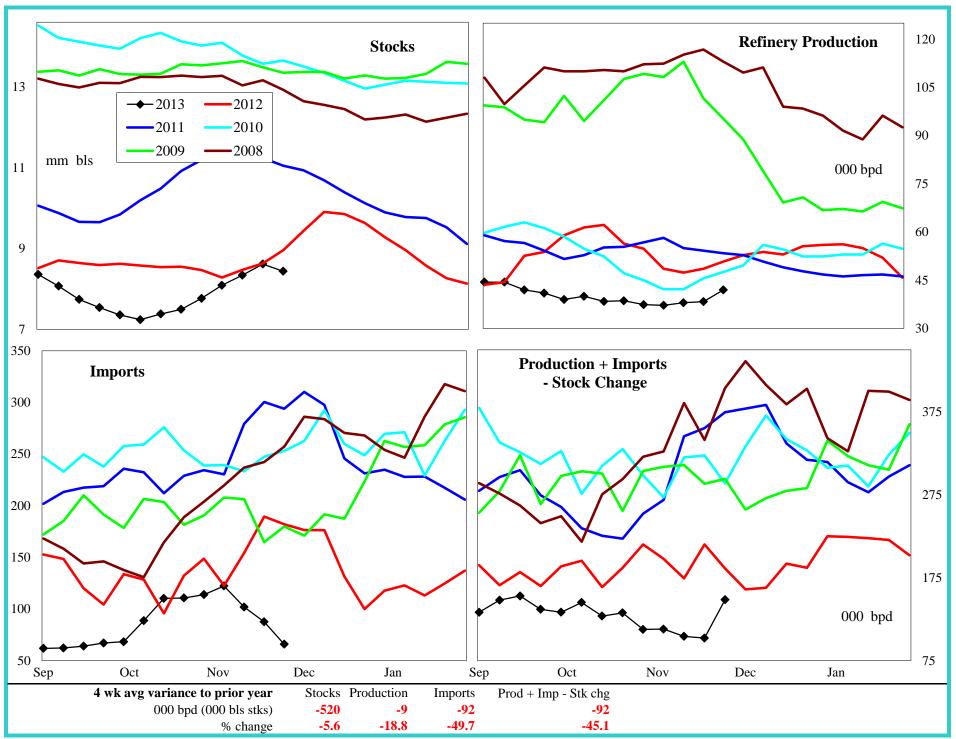
PADD 1 High Sulfur Distillate Stocks by Region



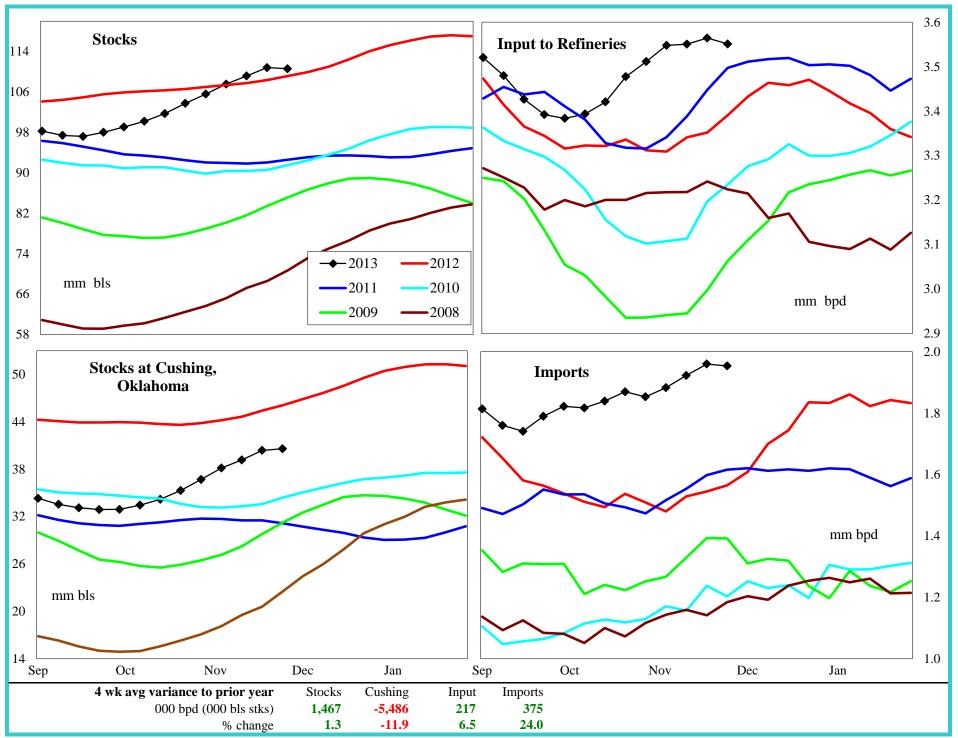
PADD 1 Jet Fuel Supply



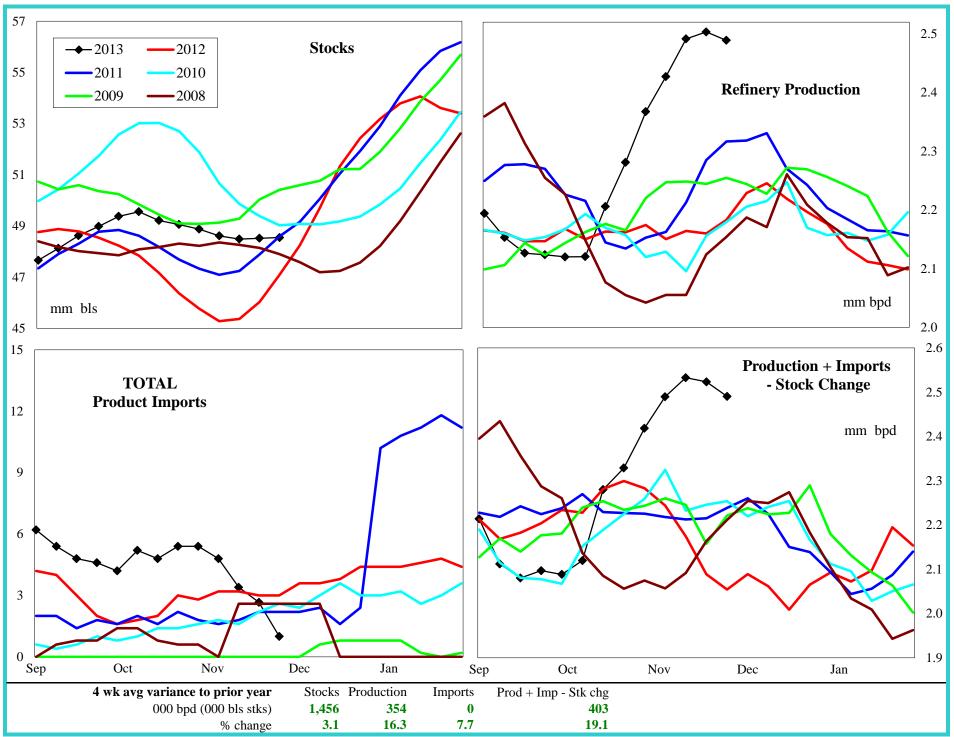
PADD 1 Residual Fuel Oil Supply



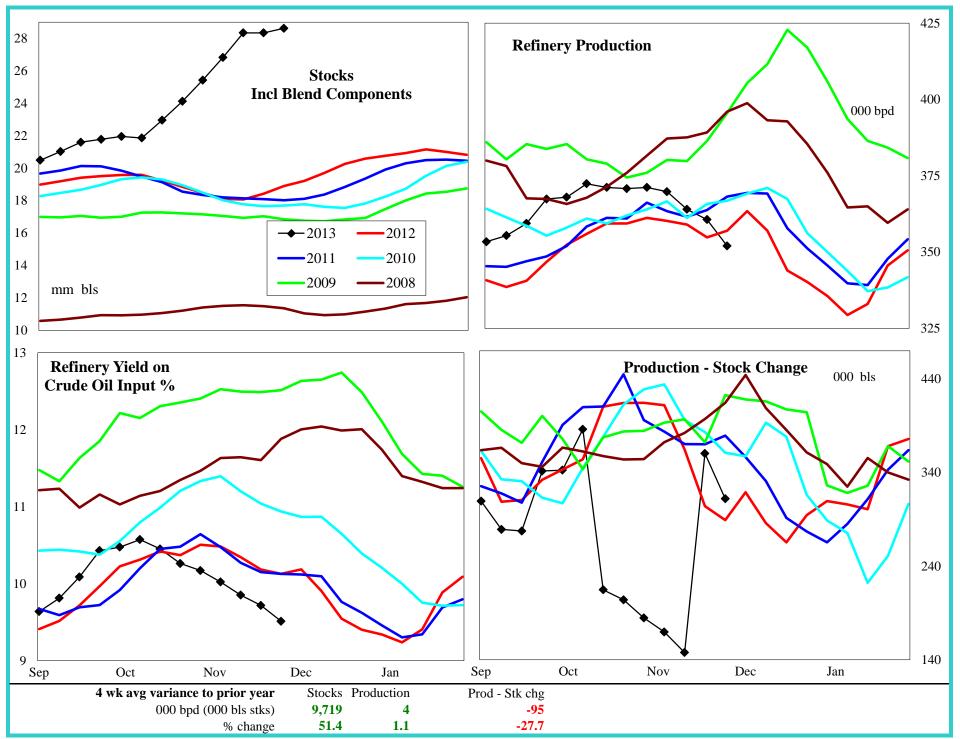
PADD 2 Crude Oil Supply and Refining



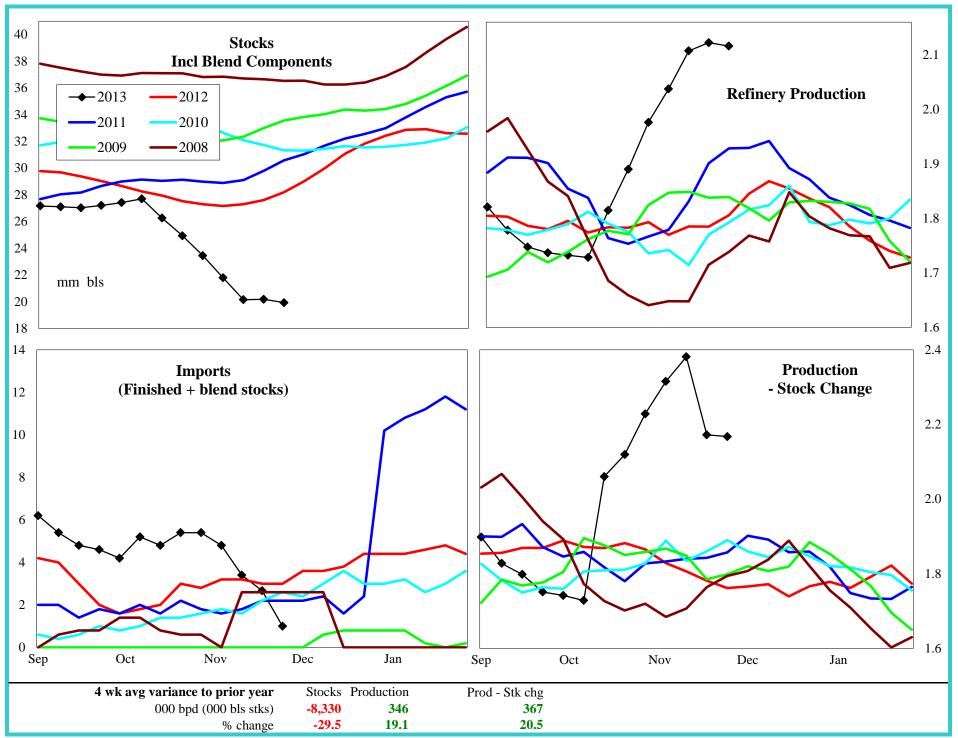
PADD 2 Gasoline Supply



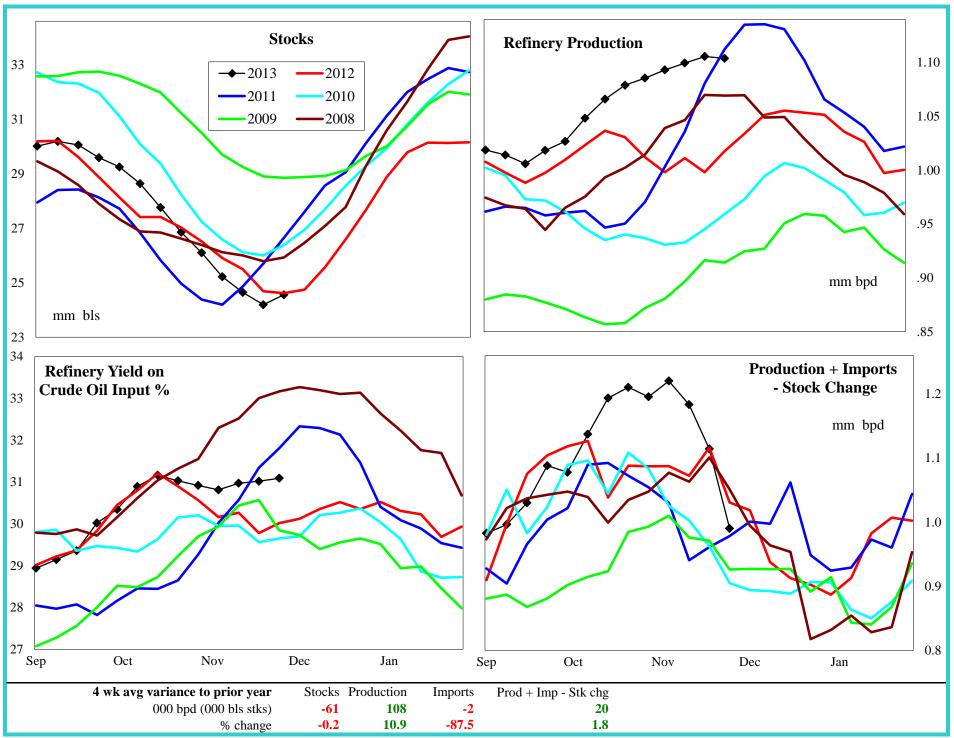
PADD 2 Reformulated Gasoline Supply



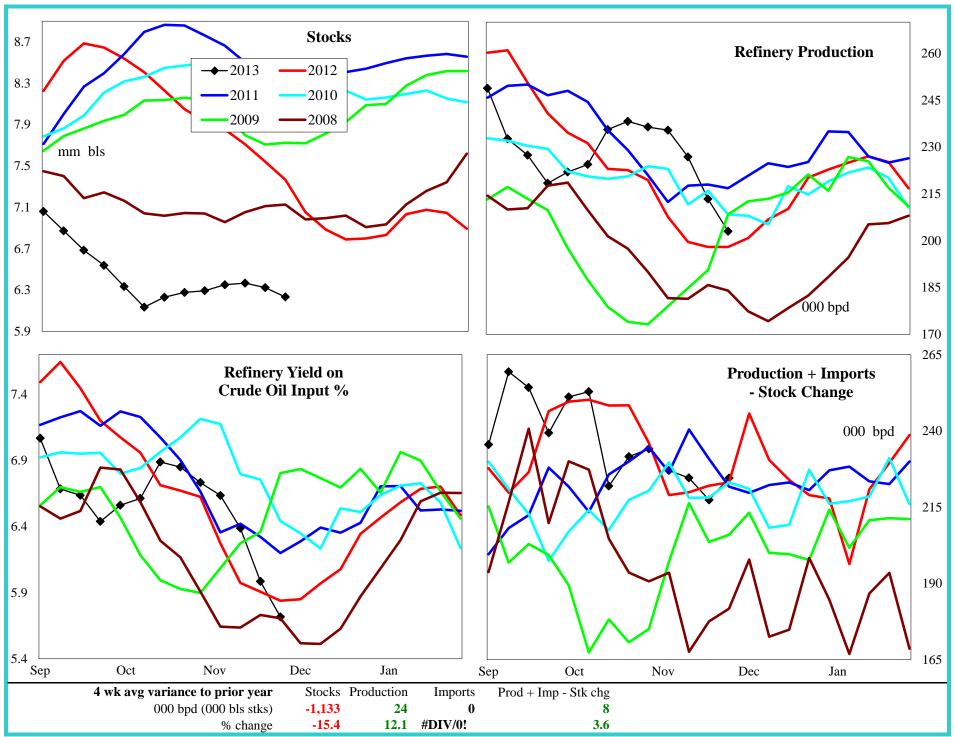
PADD 2 Conventional Gasoline Supply



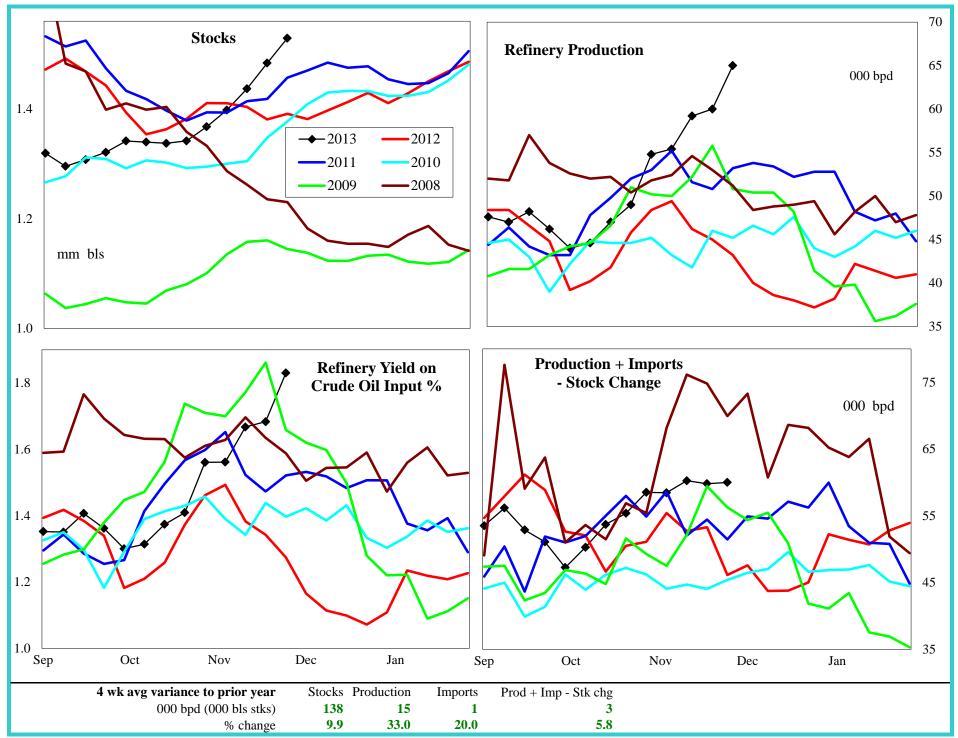
PADD 2 Distillate Supply



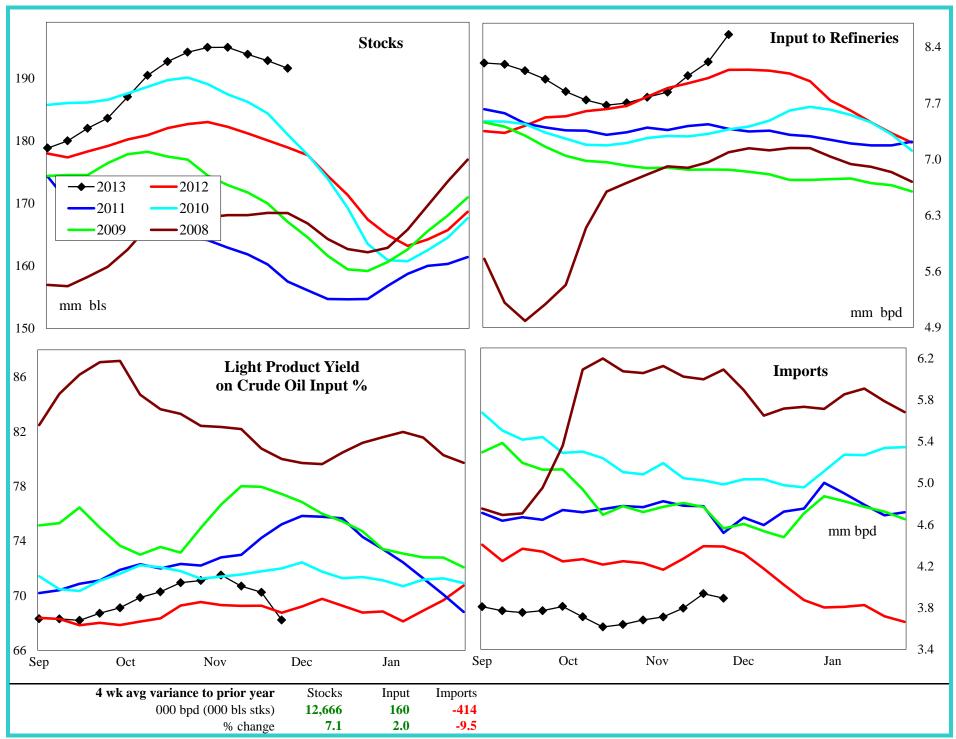
PADD 2 Jet Fuel Supply



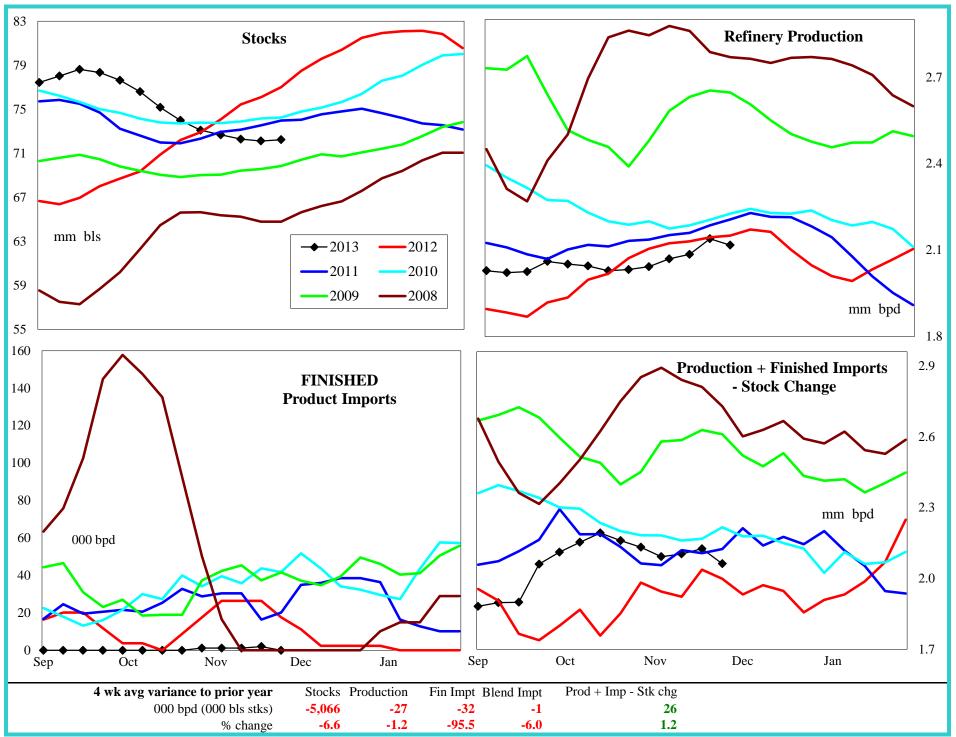
PADD 2 Residual Fuel Oil Supply



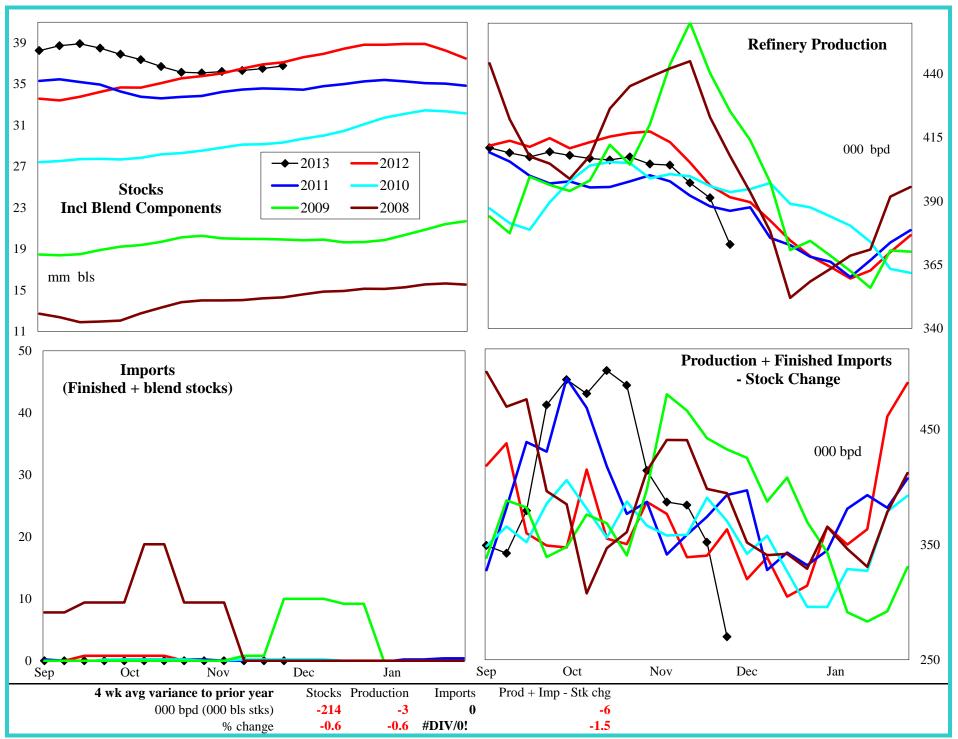
PADD 3 Crude Oil Supply and Refining



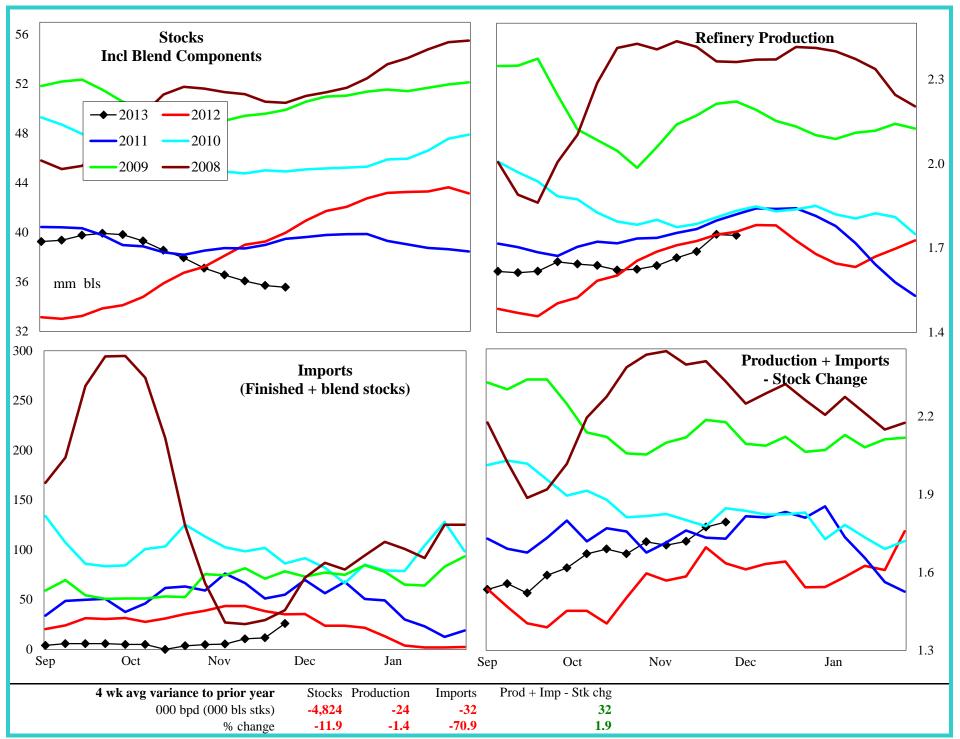
PADD 3 Gasoline Supply



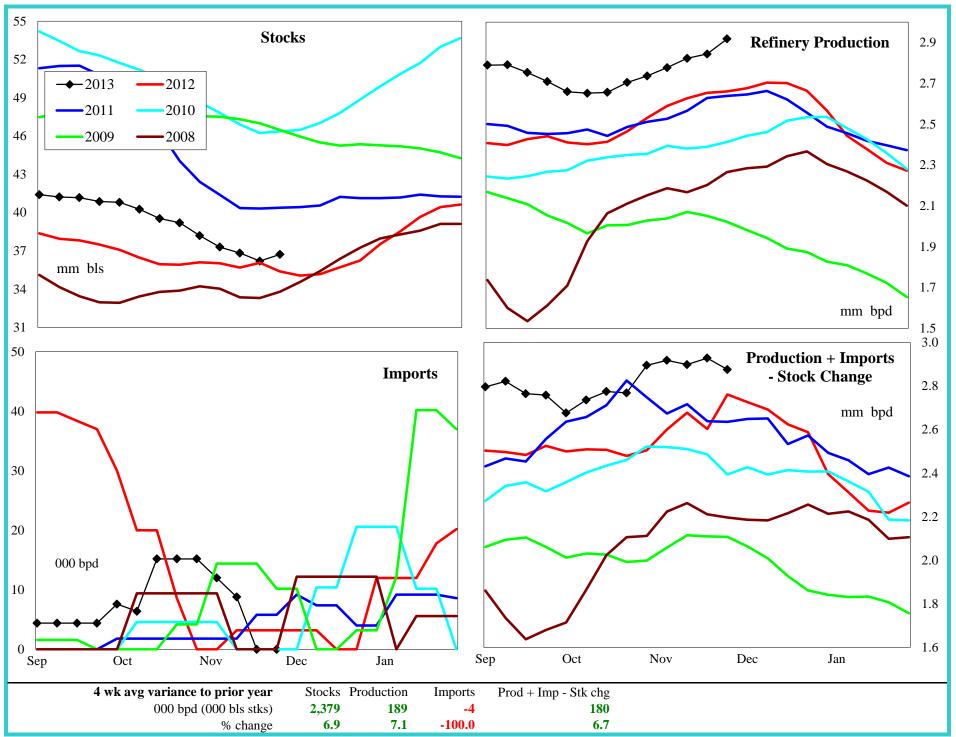
PADD 3 Reformulated Gasoline Supply



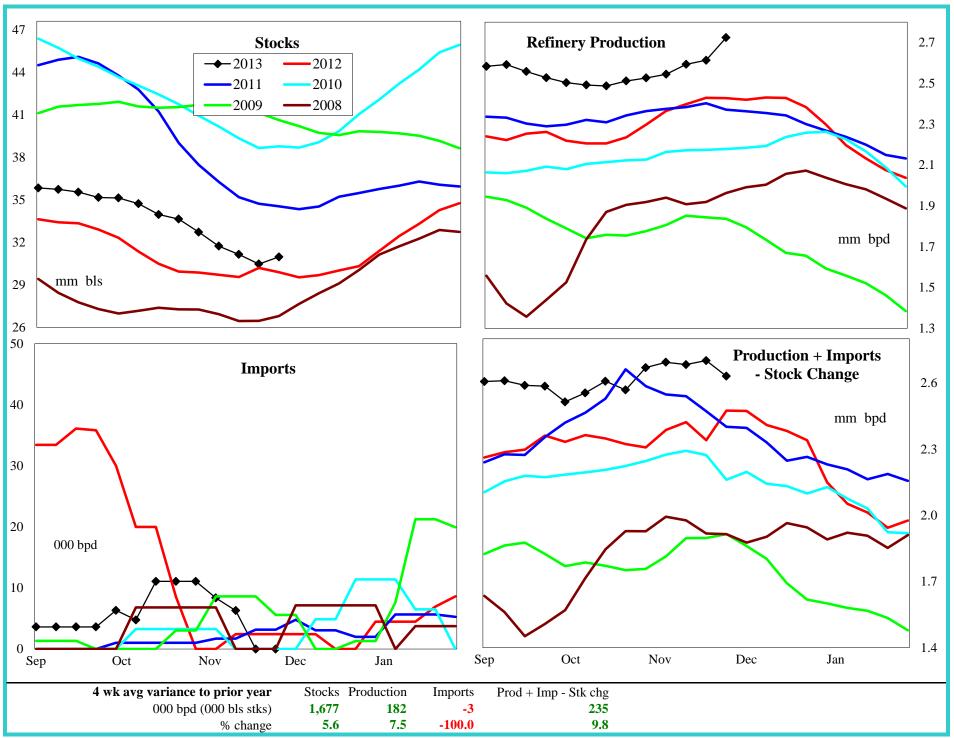
PADD 3 Conventional Gasoline Supply



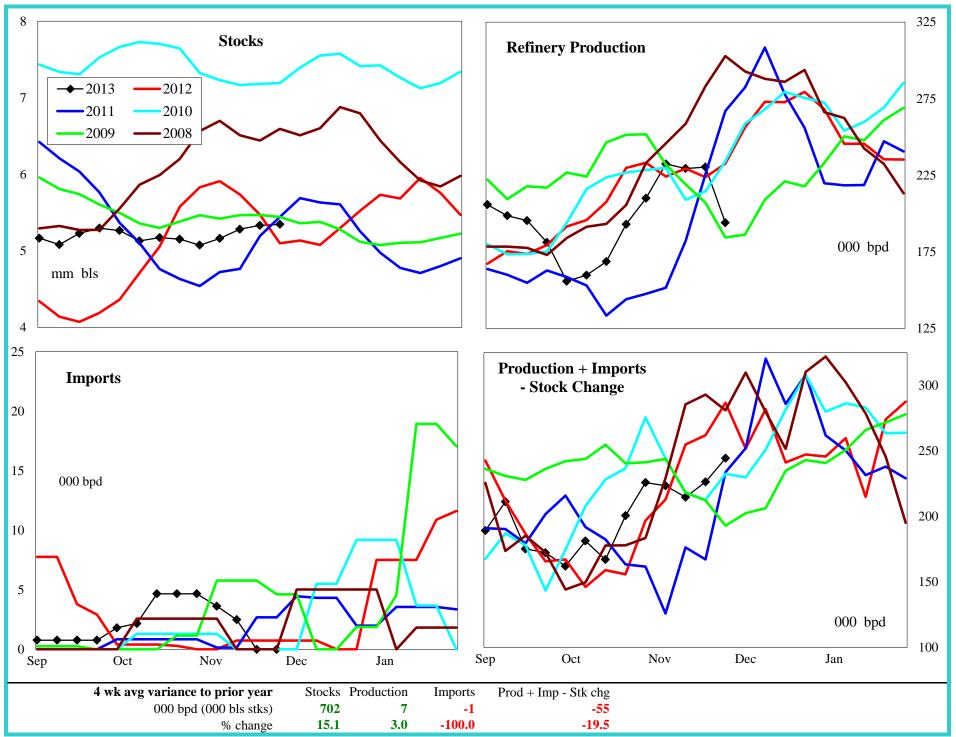
PADD 3 Distillate Supply



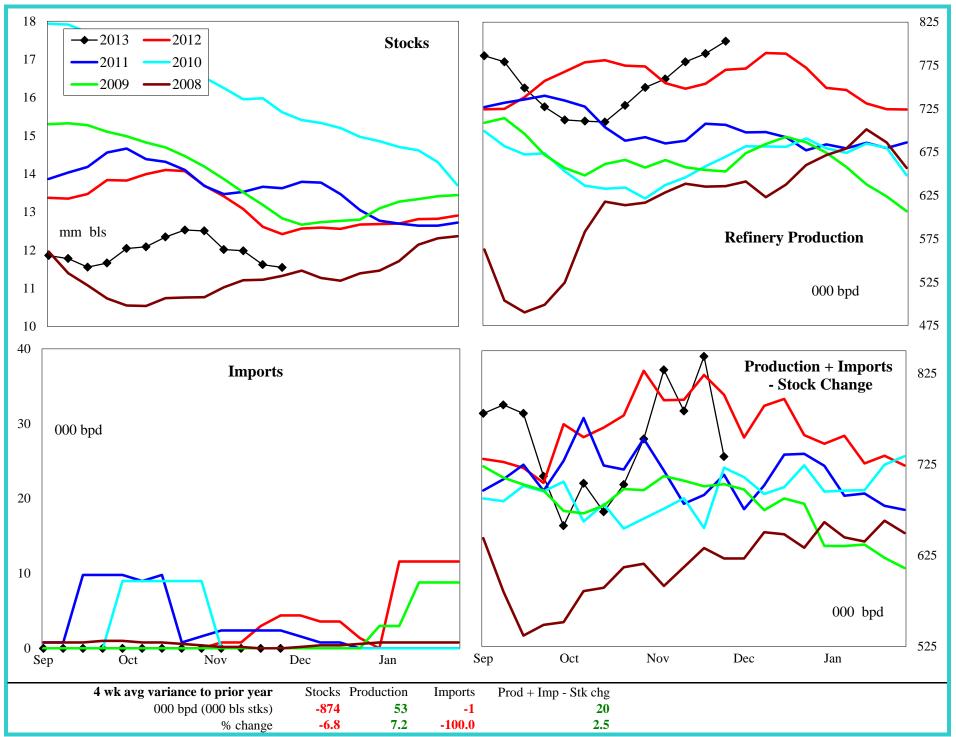
PADD 3 Low Sulfur Distillate Supply



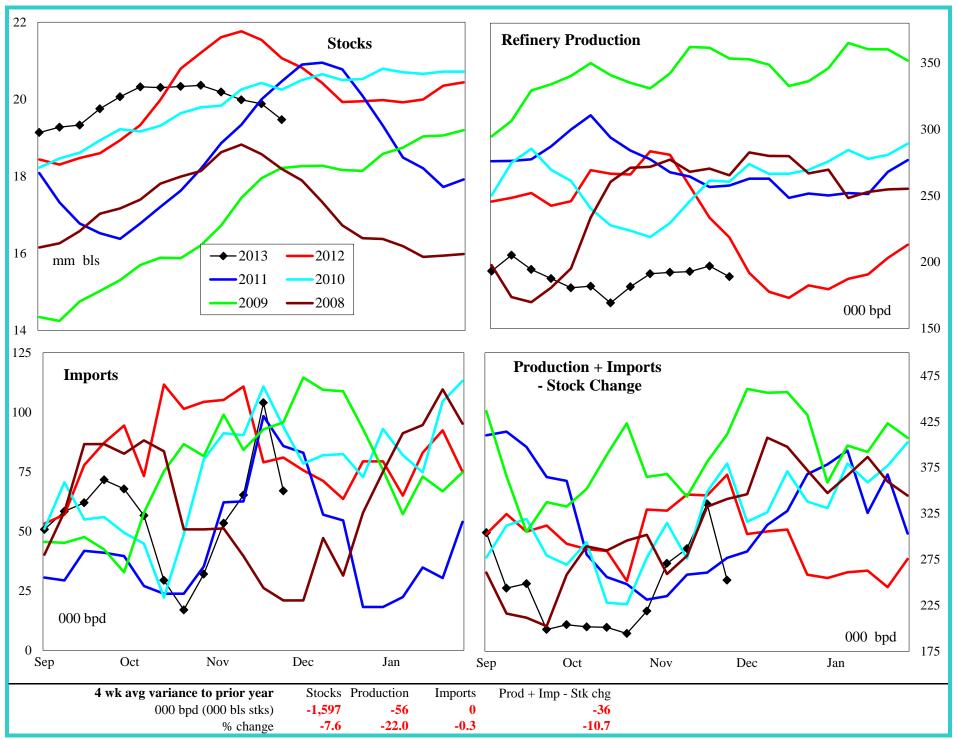
PADD 3 High Sulfur Distillate Supply



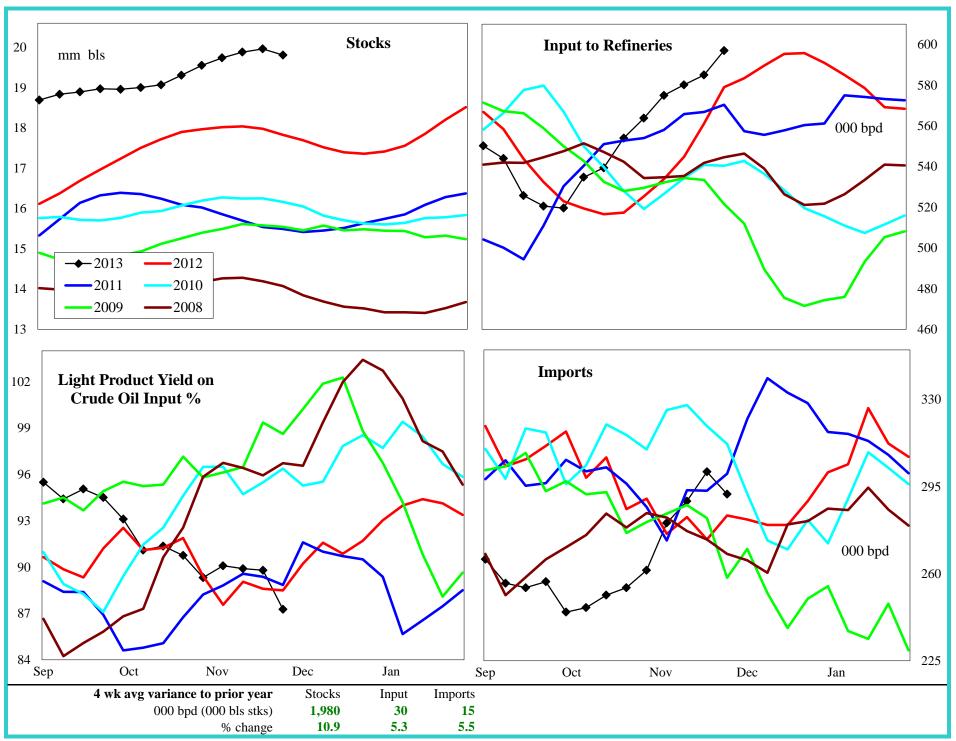
PADD 3 Jet Fuel Supply



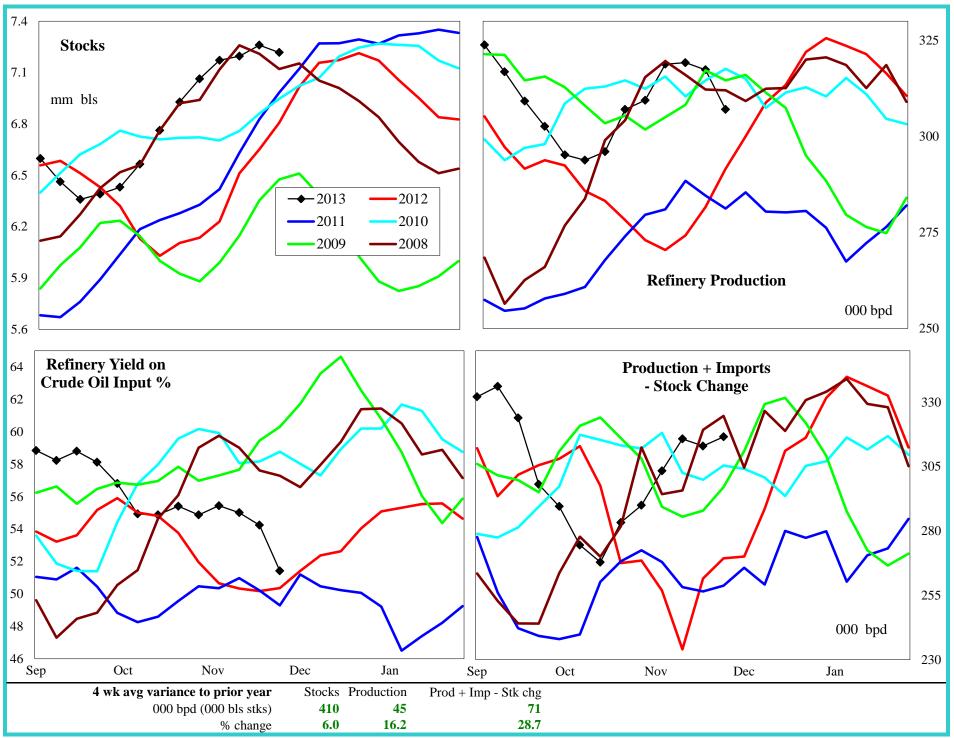
PADD 3 Residual Fuel Oil Supply



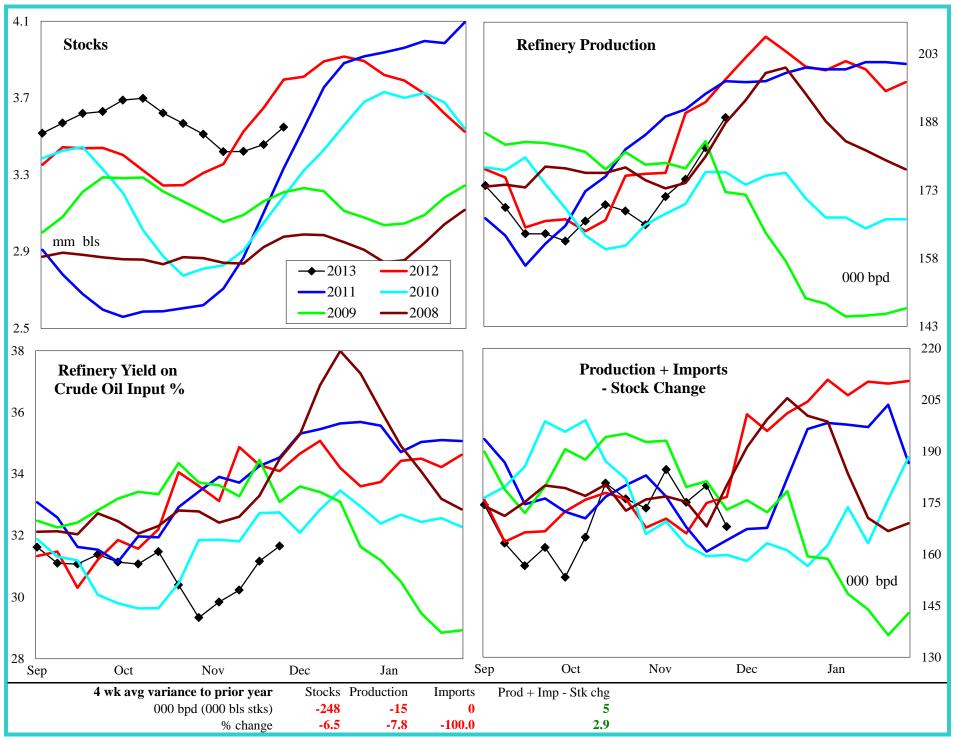
PADD 4 Crude Oil Supply and Refining



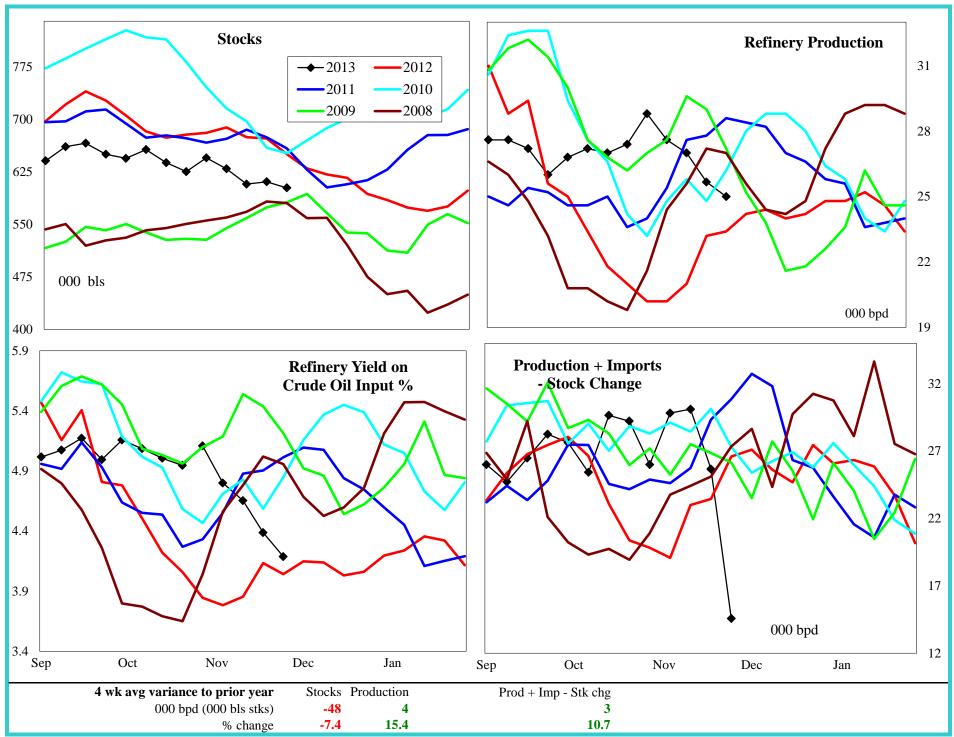
PADD 4 Gasoline Supply



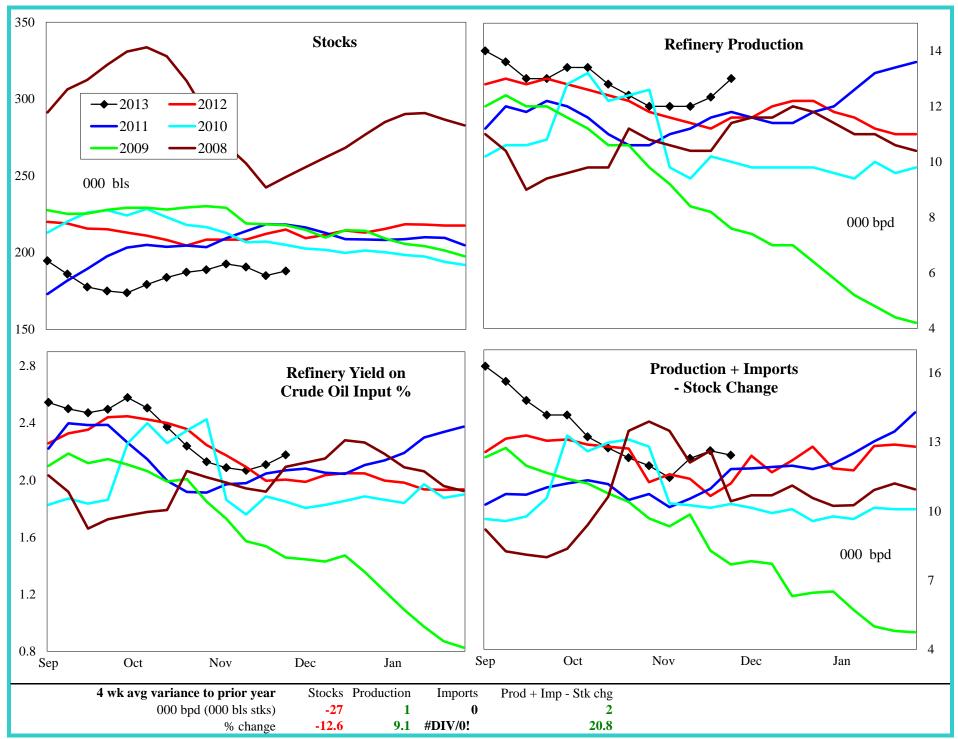
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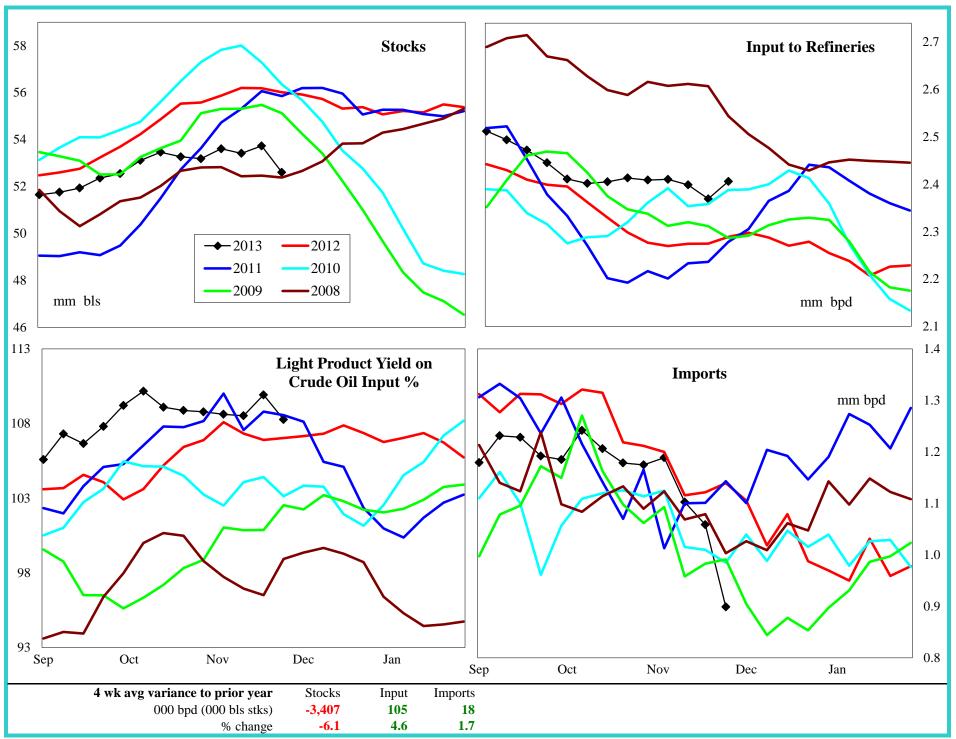
PADD 4 Jet Fuel Supply



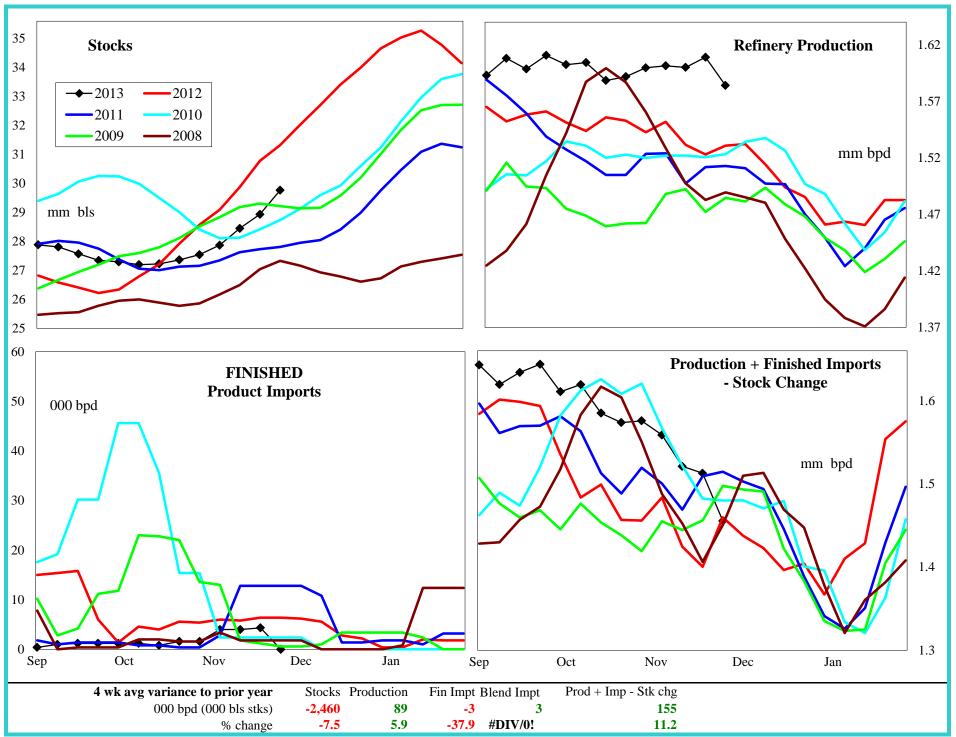
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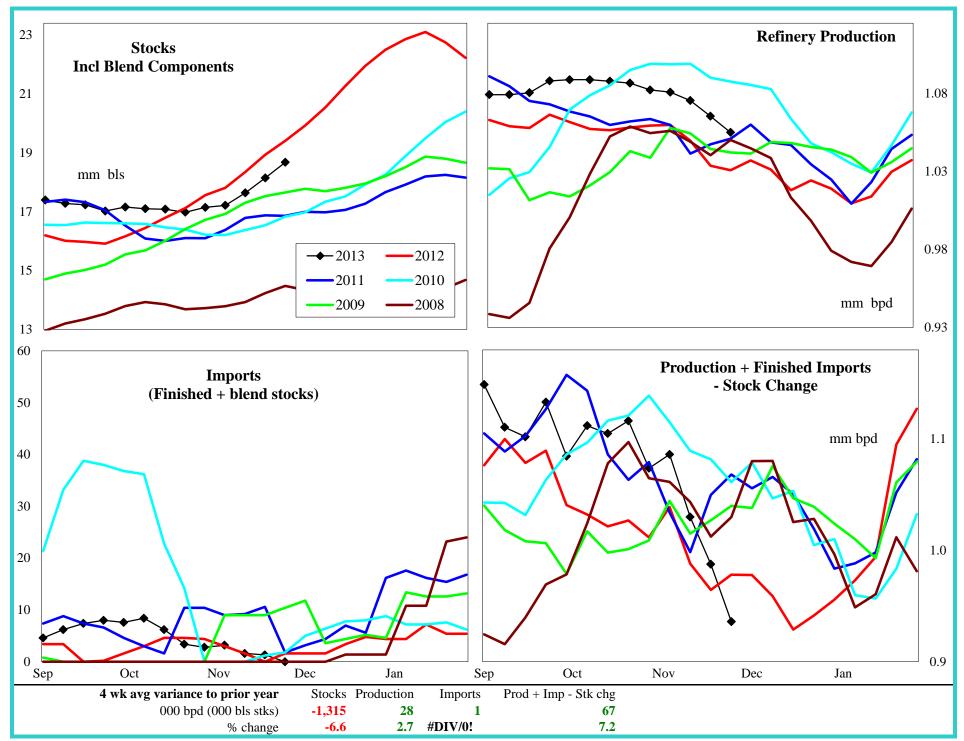
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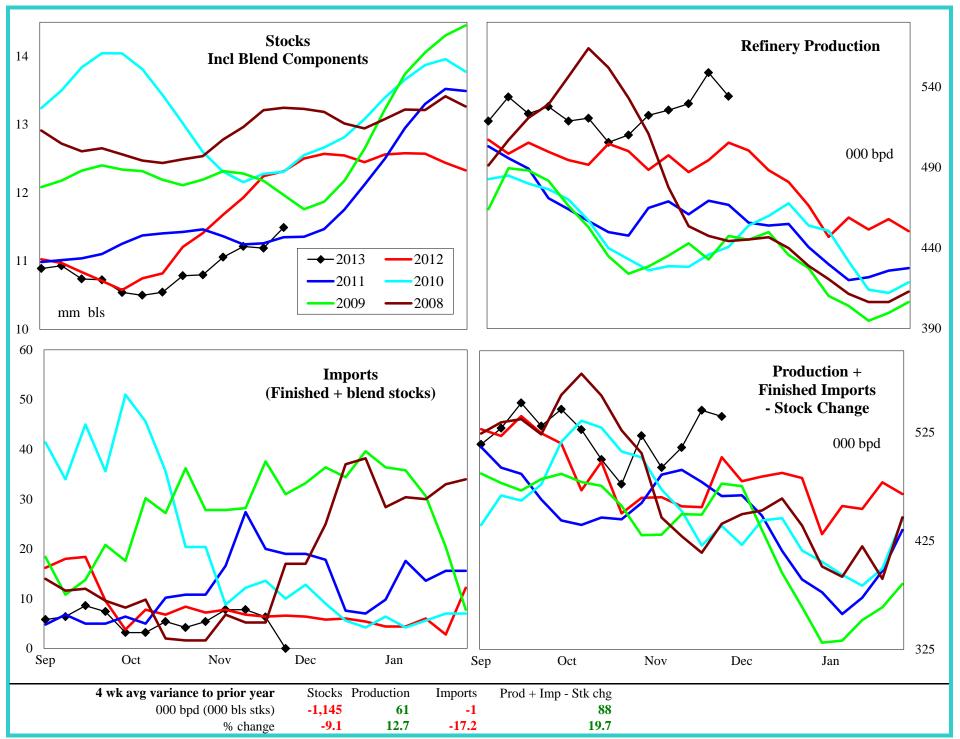
PADD 5 Gasoline Supply



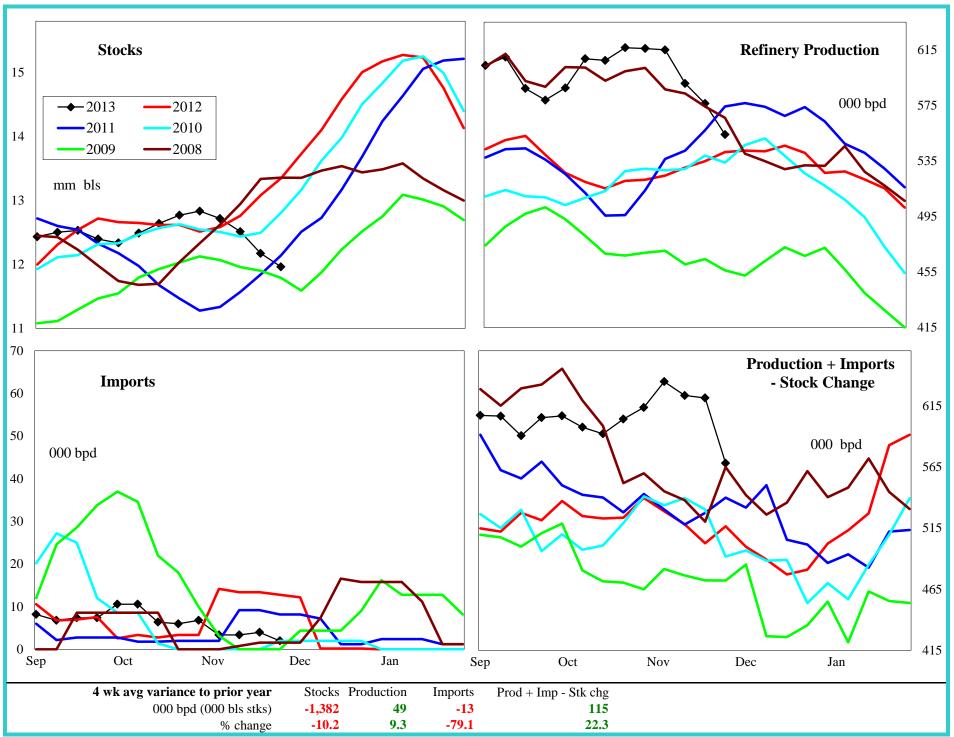
PADD 5 Reformulated Gasoline Supply



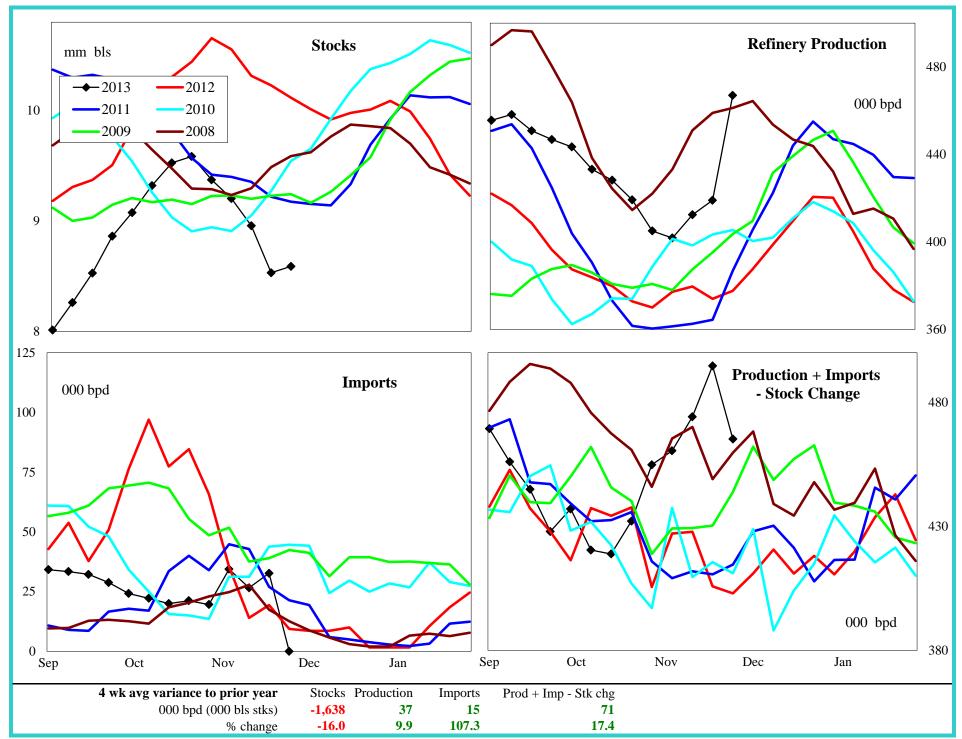
PADD 5 Conventional Gasoline Supply



PADD 5 Distillate Supply



PADD 5 Jet Fuel Supply



PADD 5 Residual Fuel Oil Supply

