



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

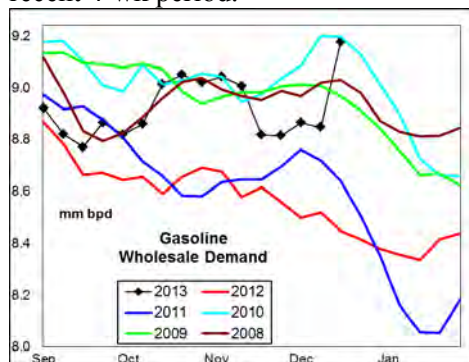
### A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Sunday, December 29, 2013



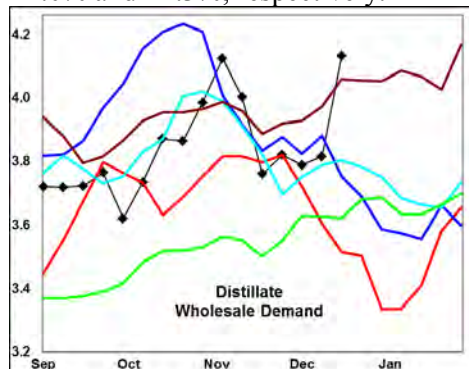
#### Major Fundamental Trends<sup>1</sup>

Wholesale gasoline demand continues to exhibit remarkable year-on-year growth of nearly +4% during the most recent 4-wk period.



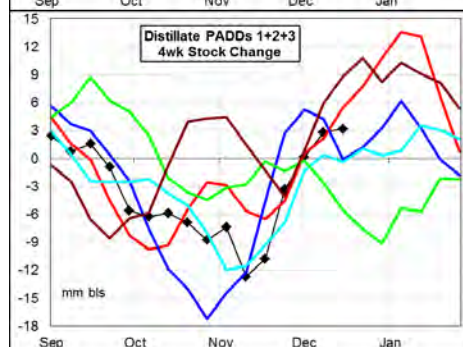
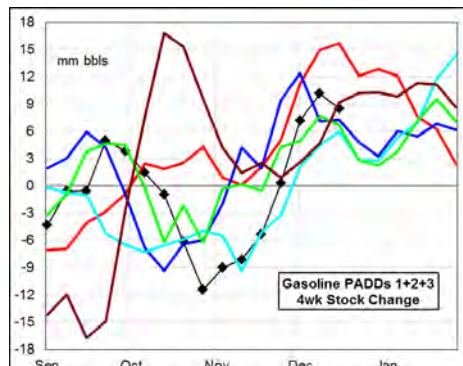
An improving economy has led to increased travel during the holiday season, more than offsetting inclement weather.

Wholesale demand for middle distillates are only marginally higher for the latest 4-wk period compared to last year with distillate and jet fuel up +1.0% and +1.3%; respectively.



Look for a sharp pull back in wholesale demand of transport fuels in the very near term from the recent high levels.

While the recent jump in wholesale demand of transport fuels has led to counter seasonal stock draws, the latest 4-wk stock builds of both gasoline and distillate are each near the average of the last 2-yrs.



Crude oil runs remain robust, up nearly +0.7 million bpd, ahead of the start of winter maintenance.

**Demand** for gasoline and distillate each increased last week, following the prior week spike; driven by improved weather for travel and restocking of the downstream supply chain. Wholesale demand, measured over the last four weeks compared to a year ago: gasoline increased +3.9%; distillate was +1% higher; jet fuel was +1.3% higher, and residual decreased -33%.

**Stocks forward coverage:** Gasoline demand coverage fell on a -0.6 million barrel stock draw and robust demand. Coverage ended the week at a level well below the last 2-yrs.

Distillate coverage fell on a -1.9 million barrel stock draw and very high demand. Coverage ended the week at a level below the 5-yr range.

Jet fuel coverage fell on a -0.8 million barrel stock draw, and extremely high demand. Coverage levels remain sharply below the 5-yr range.

Residual fuel oil coverage remains extremely high on very low demand and stock levels near the mid range.

**Refinery utilization** rates increased on a +302,000 bpd increase in crude oil

runs last week. During the latest 4-wk period crude oil input was +0.7 million bpd above a year ago.

Gasoline yield % on crude oil runs increased on a +404,000 bpd increase in output compared to the +302,000 bpd rise in crude oil runs. Yield % on crude oil runs ended the week at a 6-2k high.

Distillate yield % on crude oil runs declined last week, on a +115,000 bpd increase in output compared to the larger increase in crude oil runs. The yield % on crude oil runs fell to a level below the 3-yr mid range.

Jet fuel yield % on crude oil runs decreased on a +25,000 bpd rise in output, compared the larger rise in crude oil runs. The yield % level was above four of the last 5-yrs.

**Petroleum Imports/Exports:** Imports of crude oil decreased -0.2 million bpd last week, including a -0.5 million bpd drop in the Gulf region. Imports of all transport fuels were lower for the week.

During the latest 4-wk period crude oil imports were -0.8 million bpd below last year; distillate imports were -26,000 bpd lower; finished gasoline imports were -8,000 bpd lower, gasoline blend stock imports were +67,000 bpd higher; jet fuel imports increased +12,000 bpd, while residual fuel oil imports were -130,000 bpd lower.

The latest weekly *export* estimate saw a +61,000 bpd increase in gasoline, a +283,000 bpd jump in distillate and +16,000 bpd rise in jet fuel compared to a year ago.

**Crude Oil** stocks fell -4.7 million barrels last week, driven by a decrease in Gulf imports as refiners seek to minimize year end taxes. Stocks decreased -0.4 million barrels in Cushing OK. The purchase of line fill for the Keystone South Pipeline should lead to tightening of Midwest supplies in the near term; followed by a return to excess supplies in the Gulf region.

<sup>1</sup> Source is latest EIA Weekly Statistics



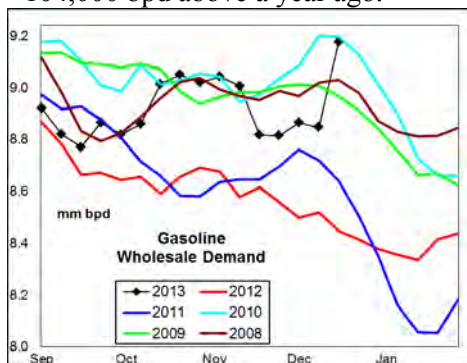
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

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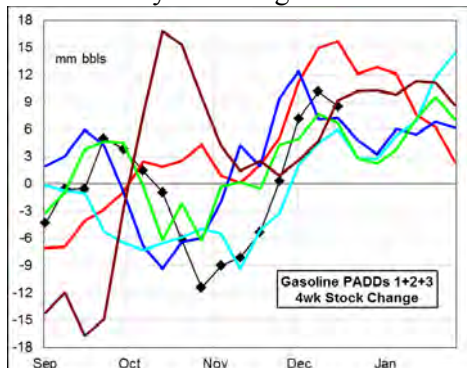
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#### Product Supply-Demand Trends

**Gasoline** wholesale demand increased +160,000 bpd last week on improved weather for travel. The latest 4-wk average demand was +336,000 bpd above a year ago. Supply increased +291,000 bpd on higher production. Supply for the latest 4-wk period was +104,000 bpd above a year ago.



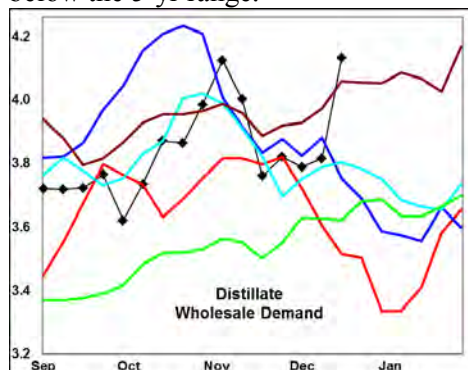
Stocks fell -0.6 million barrels last week, to a level that matched the 3-yr mid range. The latest 4-wk stock change in markets East of the Rockies was a +9.2 million barrel build, a build above the 3-yr mid range.



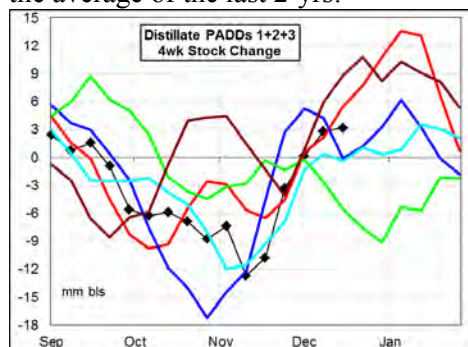
Look for a seasonal downtrend in demand to begin in the near term. Widespread stock builds should continue during the next 60-days, maintaining very well supplied markets in most regions.

**Distillate** wholesale demand increased +82,000 bpd last week, following the prior week surge. Exceptionally cold temperatures across all major heating markets underlies the robust demand, as well as a rebound in exports. The latest 4-wk average demand was +36,000 bpd above last year. Supply increased +64,000 bpd last week on higher production. The latest 4-wk

average supply was +225,000 bpd above last year. Stocks -1.9 million barrels on the week, to a level -4% below the 5-yr range.



The latest 4-wk stock change in markets East of the Rockies was a +3.2 million barrel build, a draw equal to the average of the last 2-yrs.



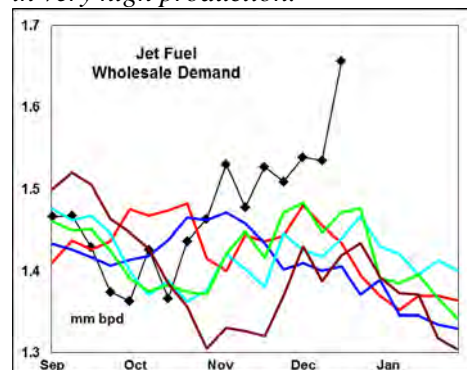
Look for a seasonal decline in production and wholesale demand over the next 30-days. Strong exports should keep stock levels at the low end of the 5-yr range during the 1<sup>st</sup> quarter.

**Jet Fuel** wholesale demand spiked last week to a new record high, with the average for the last 2-months above the 5-yr range. The latest 4-wk average demand was +20,000 bpd above a year ago.

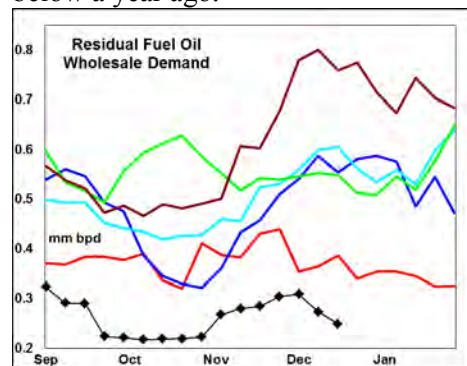
Production was +127,000 bpd (+8.6%) above last years' record high for the most recent 4-wk period. Imports were also +12,000 bpd above a year ago. Stocks fell -0.8 million barrels last week, to a level -6% below a year ago, and below the 5-yr range.

A record level of production and higher imports has been offset by a surge in wholesale demand that has keep stock levels extremely low in all

major regional markets. Risk of a widespread supply squeeze should decline after the holiday travel season in very high production.



**Residual fuel oil** demand declined -66,000 bpd last week. Demand for the latest 4-wk period was -108,000 bpd below a year ago.



Supply (production + imports) increased +107,000 bpd on higher imports and production. Production was +81,000 bpd above a year ago for the latest 4-wk period. Stock levels ended the week equal to a year ago.

Production was above the 5-yr mid range for the first time in the last 6-months as output in most regional markets was above each of the last 3-yrs. Gulf coast stock levels ended the week at a 5-yr high for the period.





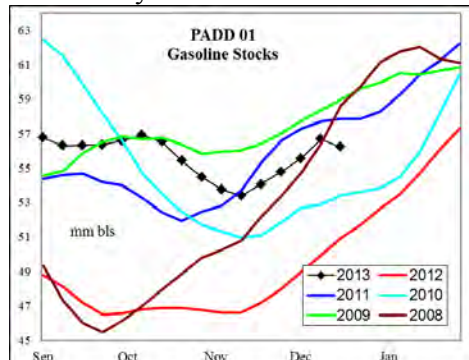
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#### PADD Supply Trends

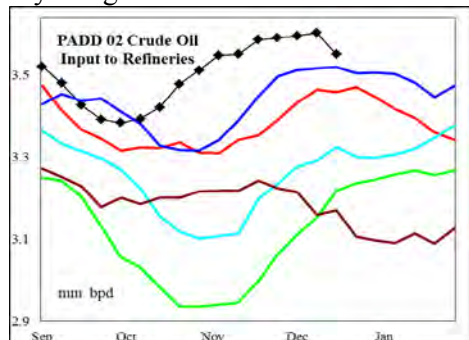
**PADD 1** refinery crude oil runs increased +21,000 bpd last week; with the latest 4-wk average +68,000 bpd above last year.



Gasoline supply decreased -58,000 bpd on the week, with the level +38,000 bpd above last year for the most recent 3-wk period. Stocks declined -0.3 million barrels, a level near 3-yr highs for the week.

Distillate supply declined -114,000 bpd last week, on lower production and imports. Stocks fell -1.7 million barrels on the week, to a level -13% below the 5-yr range.

Jet fuel supplies fell to a record low level with stocks -13% below the 5-yr range.



**PADD 2** crude oil refinery runs decreased -13,000 bpd last week, with the latest 4-wk average +125,000 bpd above last year. Crude oil stocks decreased -0.3 million barrels last week, including a -0.4 million barrel draw in Cushing.

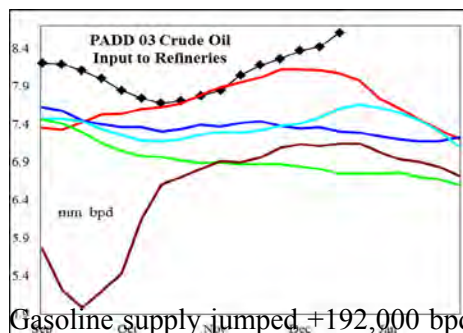
Gasoline production increased +161,000 bpd last week to a new record high. Production for the most recent 4-wk period was +298,000 bpd above a year ago – driven by the EIA

**PADD 4** refinery crude runs declined -24,000 bpd last week, a level below the last 2-yrs. Crude oil stock levels were +10% above the previous record high, while imports fell below the midrange.

Distillate supply decreased -17,000 bpd last week, with the 4-wk average +86,000 bpd above last year. Stocks fell -1.1 million barrels to a level -8% below prior record lows.

Jet fuel production matched historic highs for the week. Stocks decreased -0.3 million barrels to match historic lows.

**PADD 3** refinery runs increased +239,000 bpd last week, a level above the 5-yr range. During the latest 4-wk period, average runs were +329,000 bpd above last year. Crude oil stocks fell -5.1 million barrels last week on a -0.5 million bpd drop in imports.



Gasoline supply jumped +192,000 bpd last week, with the latest 4-wk average -53,000 bpd below a year ago. Stocks increased +0.3 million barrels last week, to a level above the 3-yr mid range.

Distillate supply increased +130,000 bpd on the week, with the latest 4-wk average supply +185,000 bpd above last year. Stocks increased +2 million barrels last week, to a level +10% above last year.

Jet fuel production increased +10,000 bpd on the week, with the level equal to 5-yr highs. Stocks decreased -0.7 million barrels on the week to a level near historic lows.

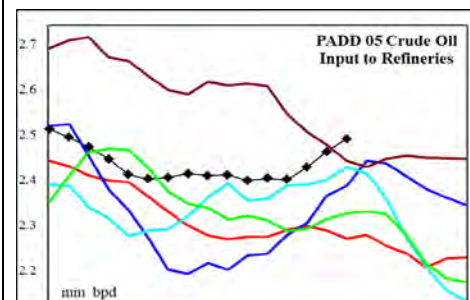
Residual fuel supply increased +30,000 bpd on higher production. Stocks increased to a level that matched 5-yr highs.

Gasoline production increased +36,000 bpd on the week, to a level above the 5-yr range. Stocks decreased -0.5 million barrels, to a level below the last 3-yrs.

Distillate production was unchanged on the week, at a level well below the last 2-yrs. Stocks fell -0.4 million barrels to a level below the last 3-yrs.

Jet fuel production was near 3-yr highs while stock levels were near historic lows.

**PADD 5** crude oil refinery runs increased +78,000 bpd last week to a level above the 5-yr range. The latest 4-wk run rate was +165,000 bpd above a year ago.



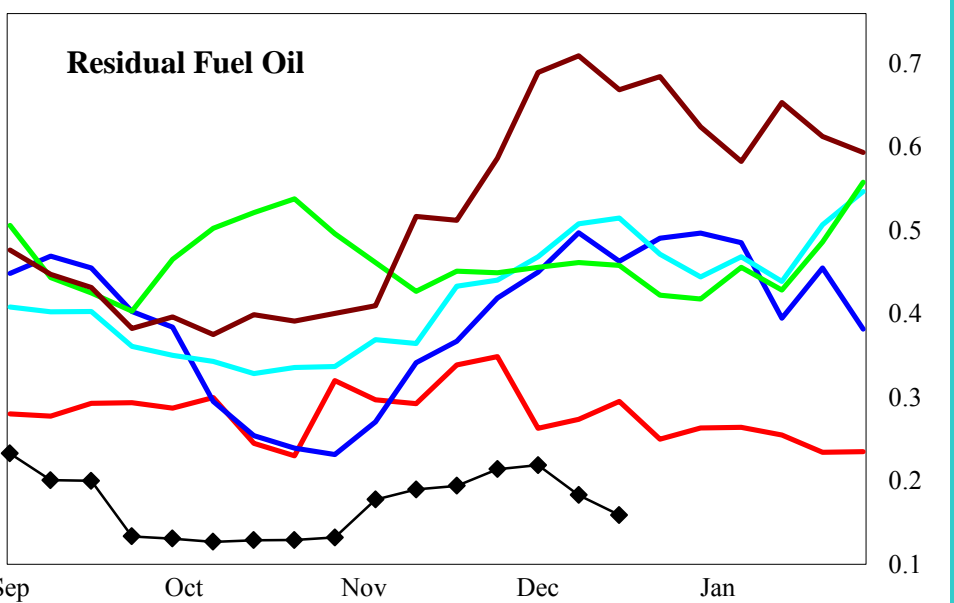
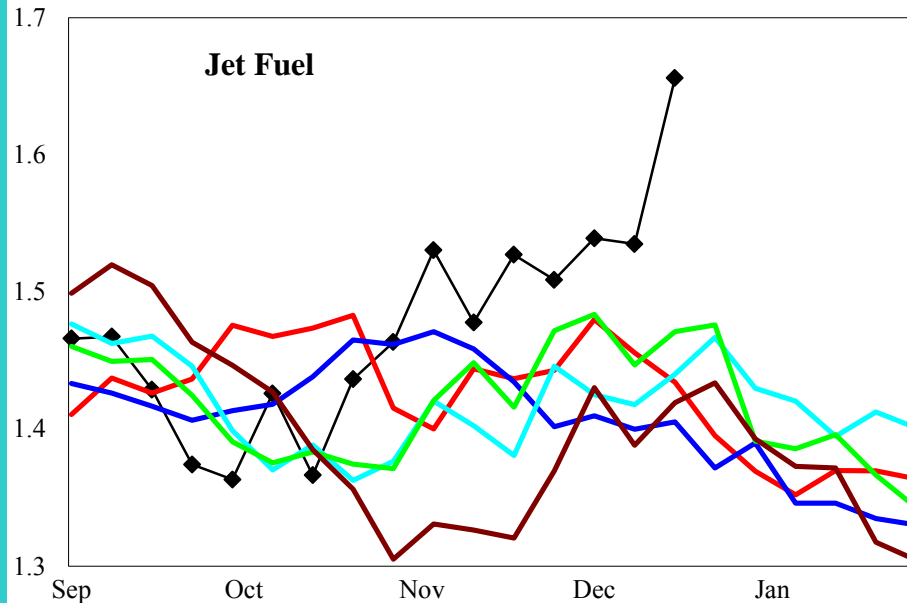
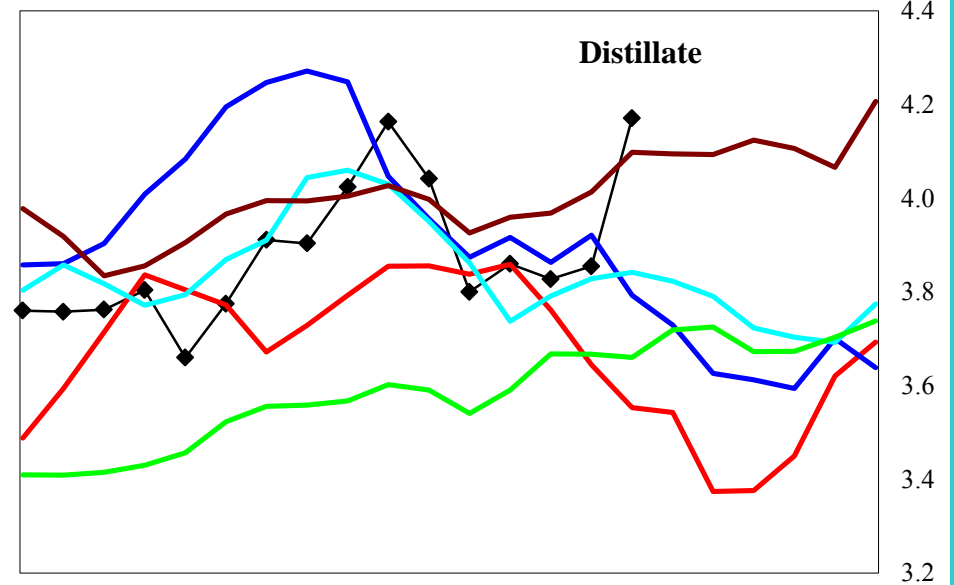
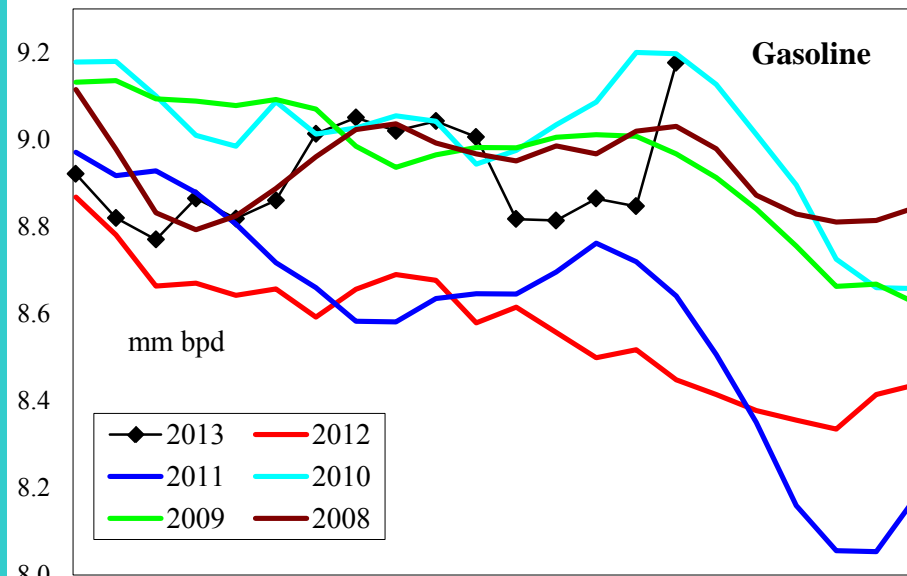
Gasoline supply increased +94,000 bpd on the week to a record high for the period. The latest 4-wk average supply was +61,000 bpd above a year ago. Stocks increased +0.5 million barrels last week, to a level near the 3-yr mid range.

Distillate supply increased +53,000 bpd, to a level that matched historic highs for the period. The latest 4-wk average supply was +21,000 bpd above last year. Stocks declined -0.6 million barrels last week, to a level which matched the 5-yr lows.

Jet fuel supply jumped +64,000 bpd last week to an all time record high. Stock levels ended the week at the low end of the historic range.

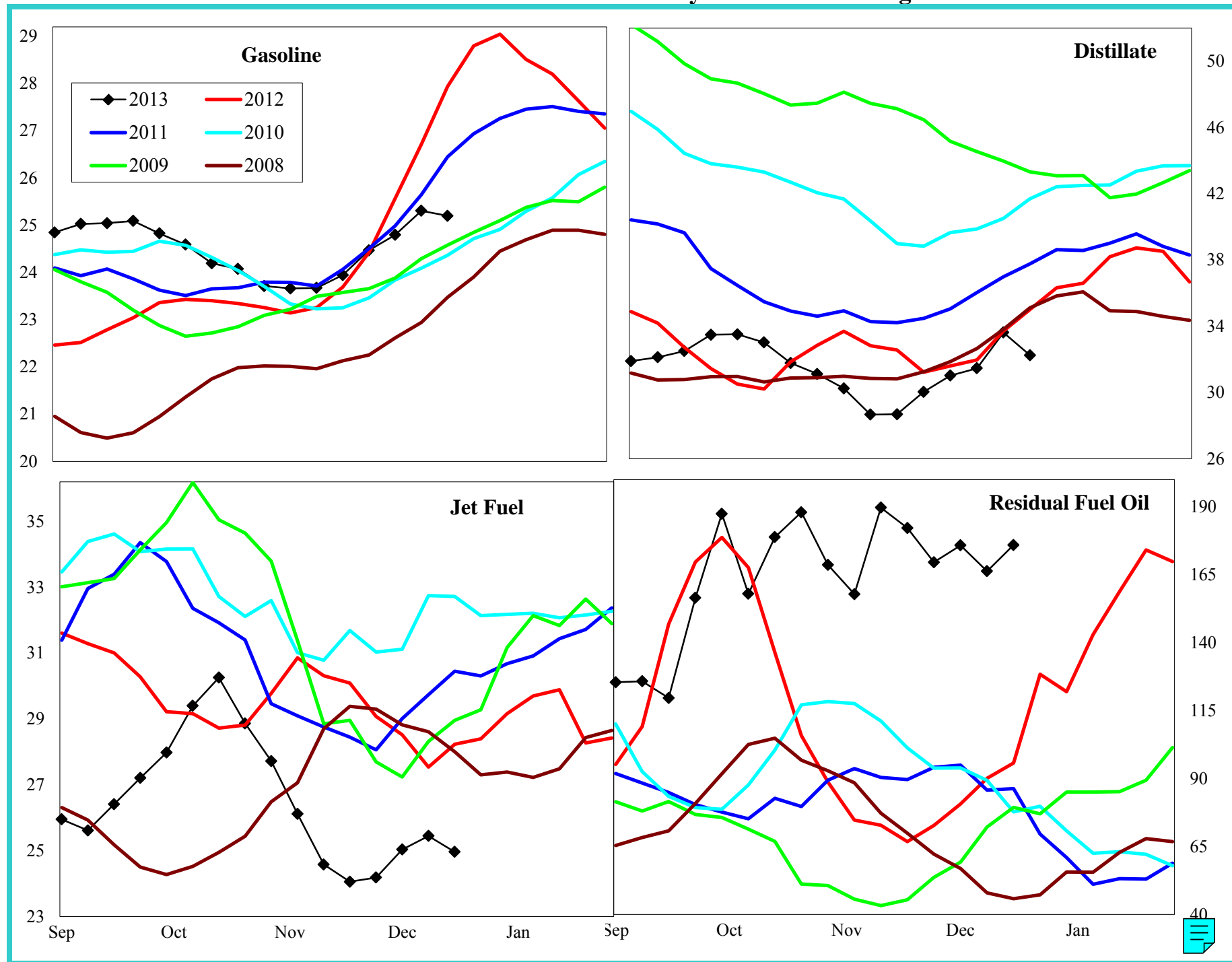


# United States Wholesale Petroleum Demand

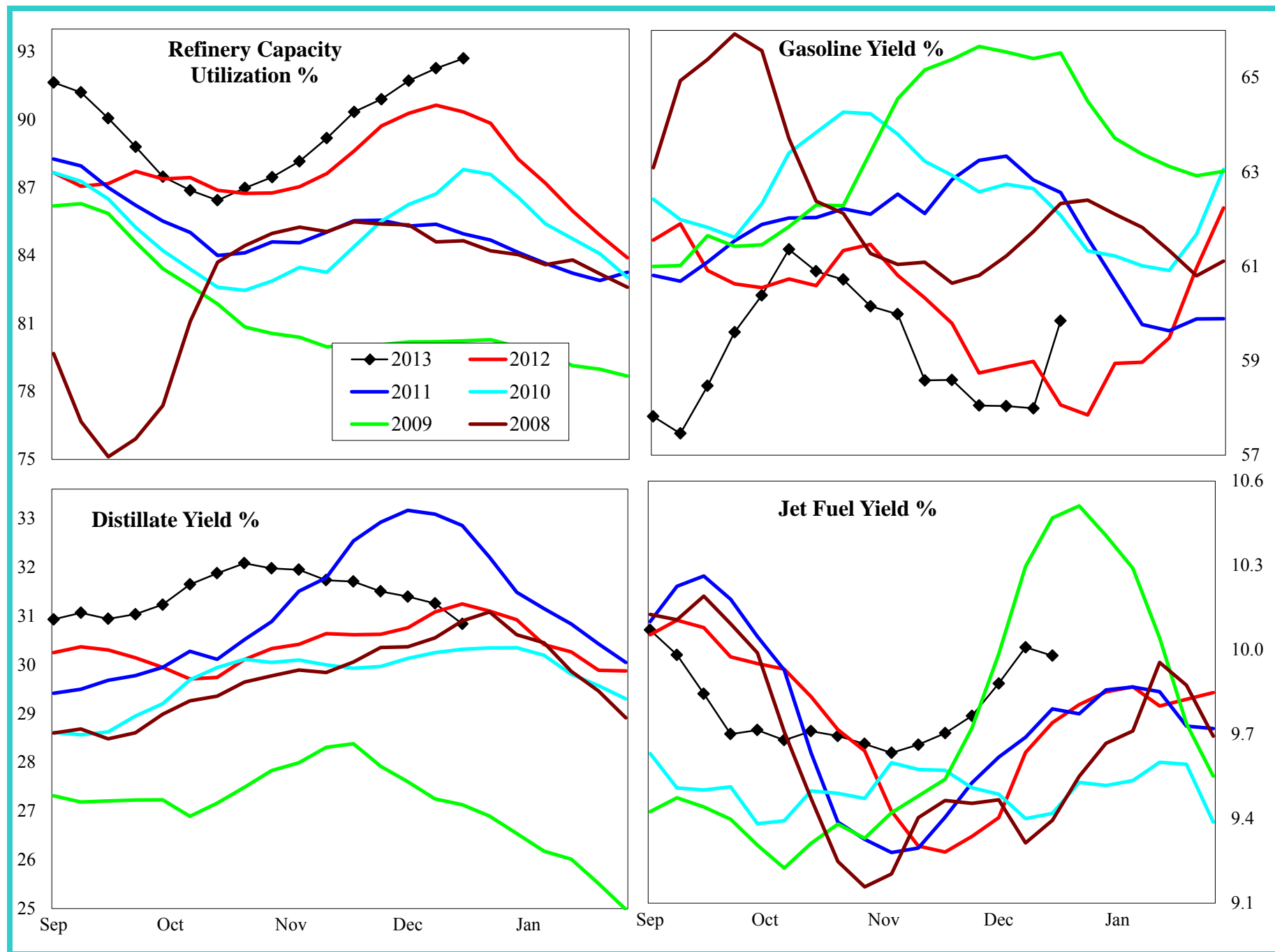


	000 bpd change from prior year				% change from prior year			
	4wk avg	Nov	Jan	Sep	4wk avg	Nov	Oct	Sep
Gasoline	336	396	355	343	3.9	4.6	4.1	4.0
Distillate	36	22	94	32	1.0	0.6	2.4	0.9
Jet Fuel	20	132	64	40	1.3	9.4	4.8	2.9
Resid	-108	-53	-109	47	-32.6	-18.0	-39.1	15.6

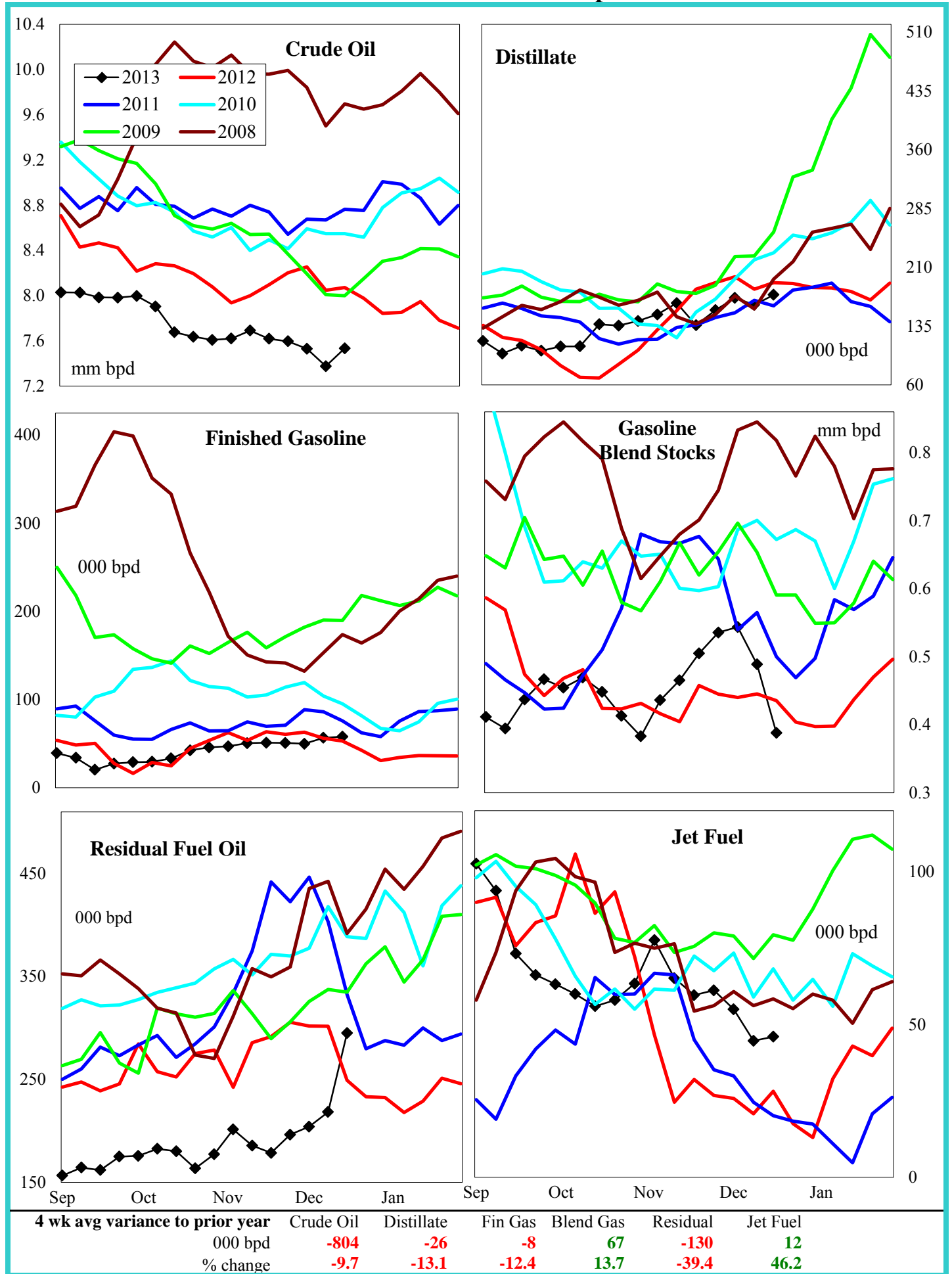


**United States Product Stocks: Days Forward Coverage**

## United States Refinery Percent Utilization Rate and Product Yields

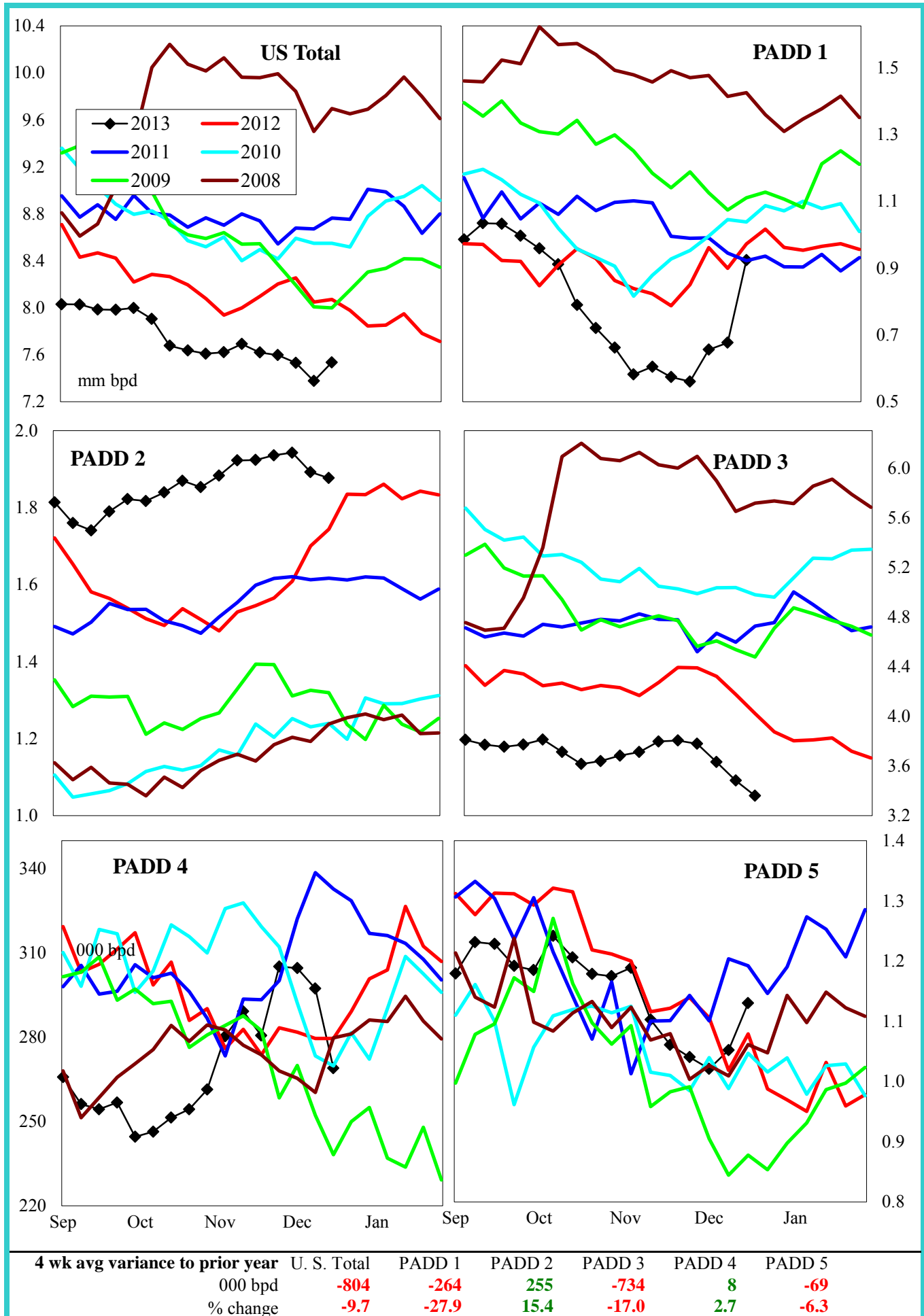


# United States Petroleum Imports

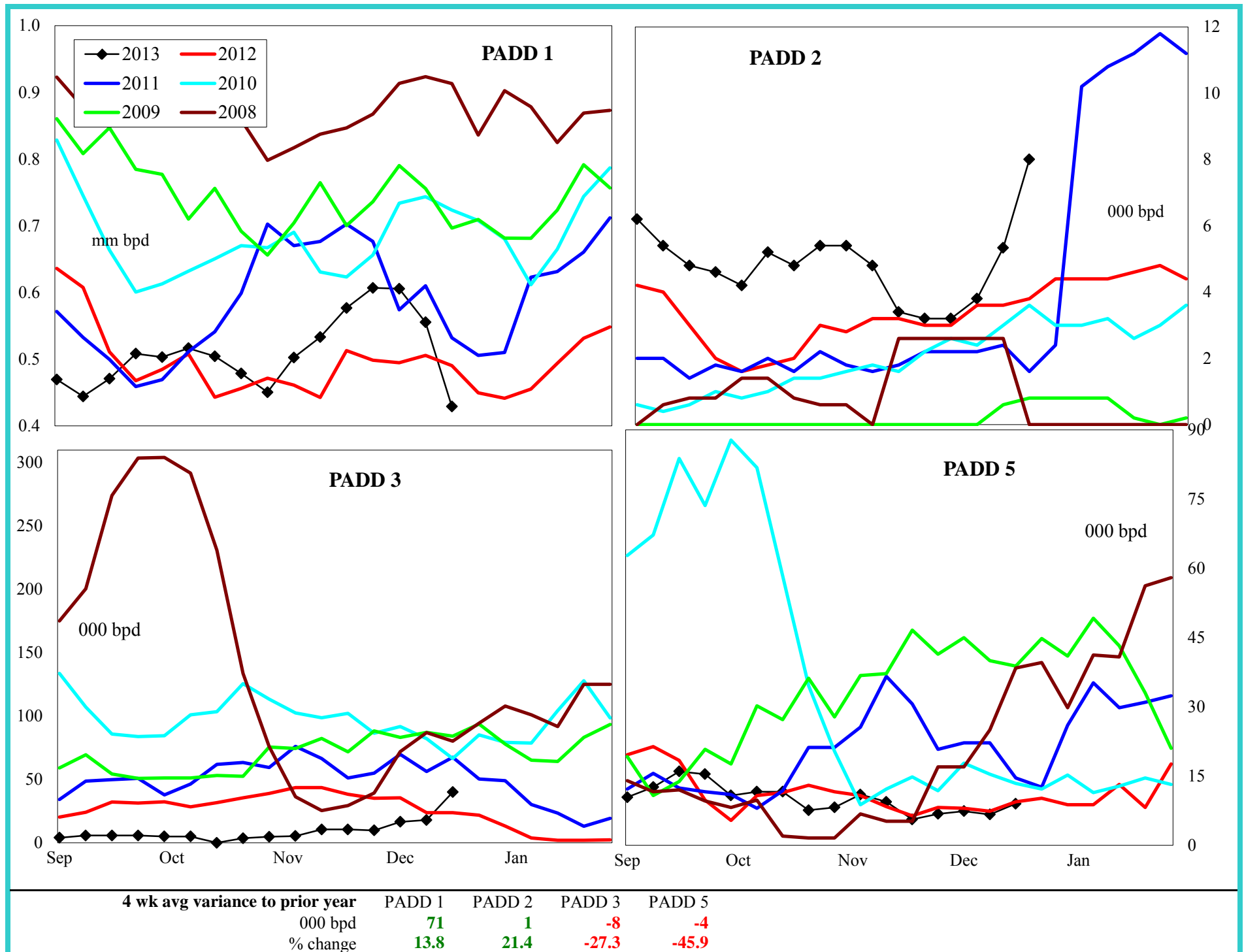




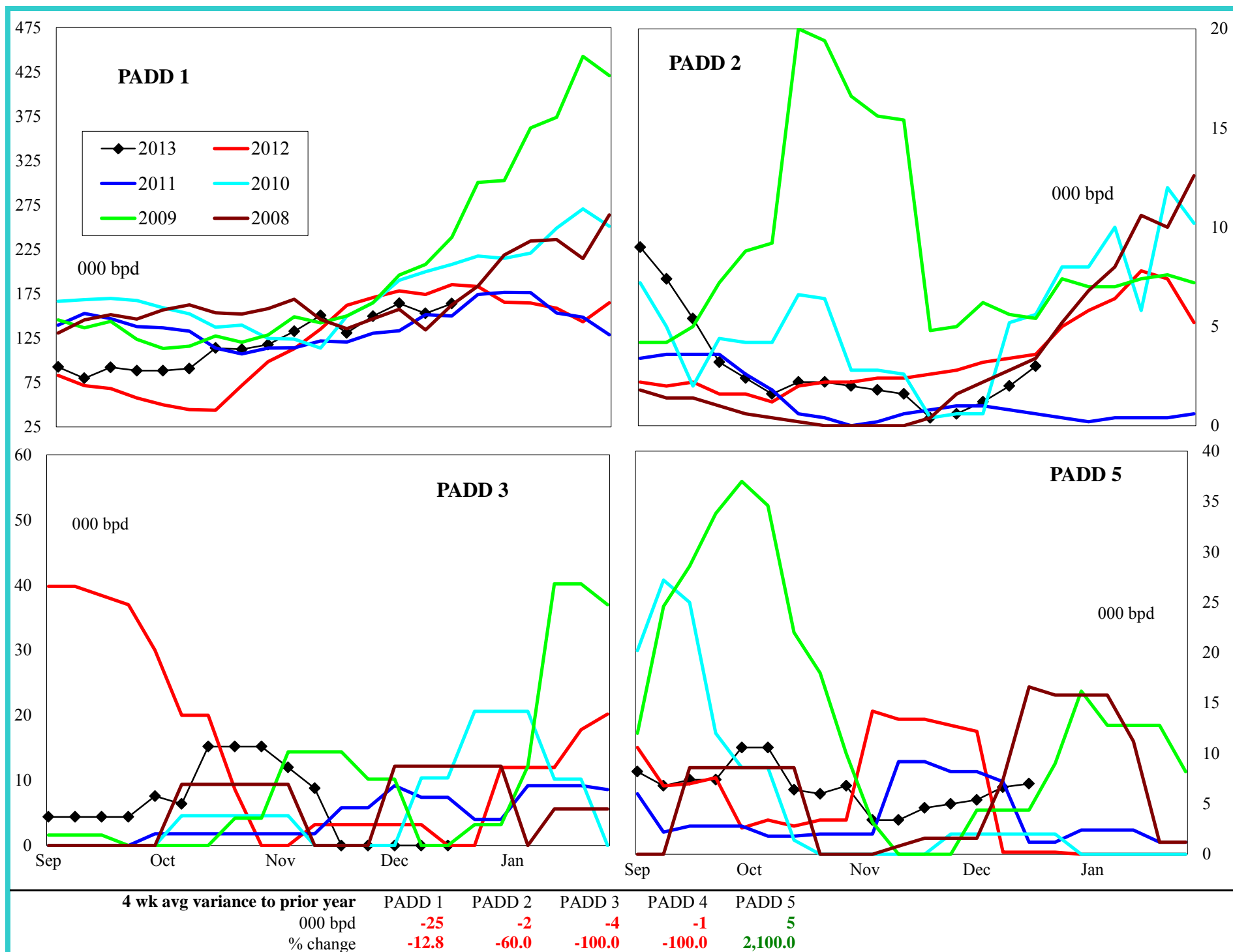
## Crude Oil Imports by PADD



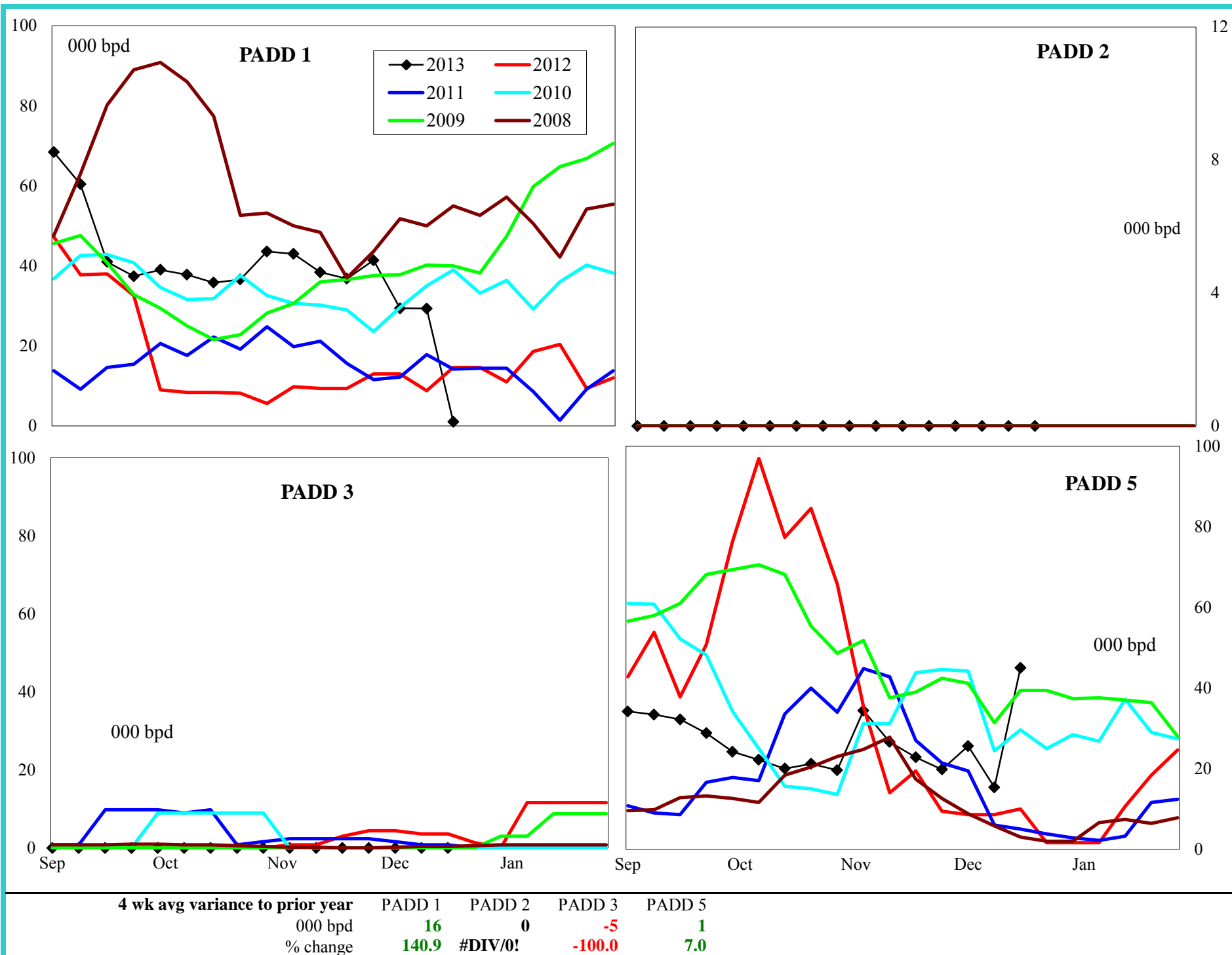
# Gasoline Imports by PADD (Finished + Blend Stocks)



# Distillate Imports by PADD

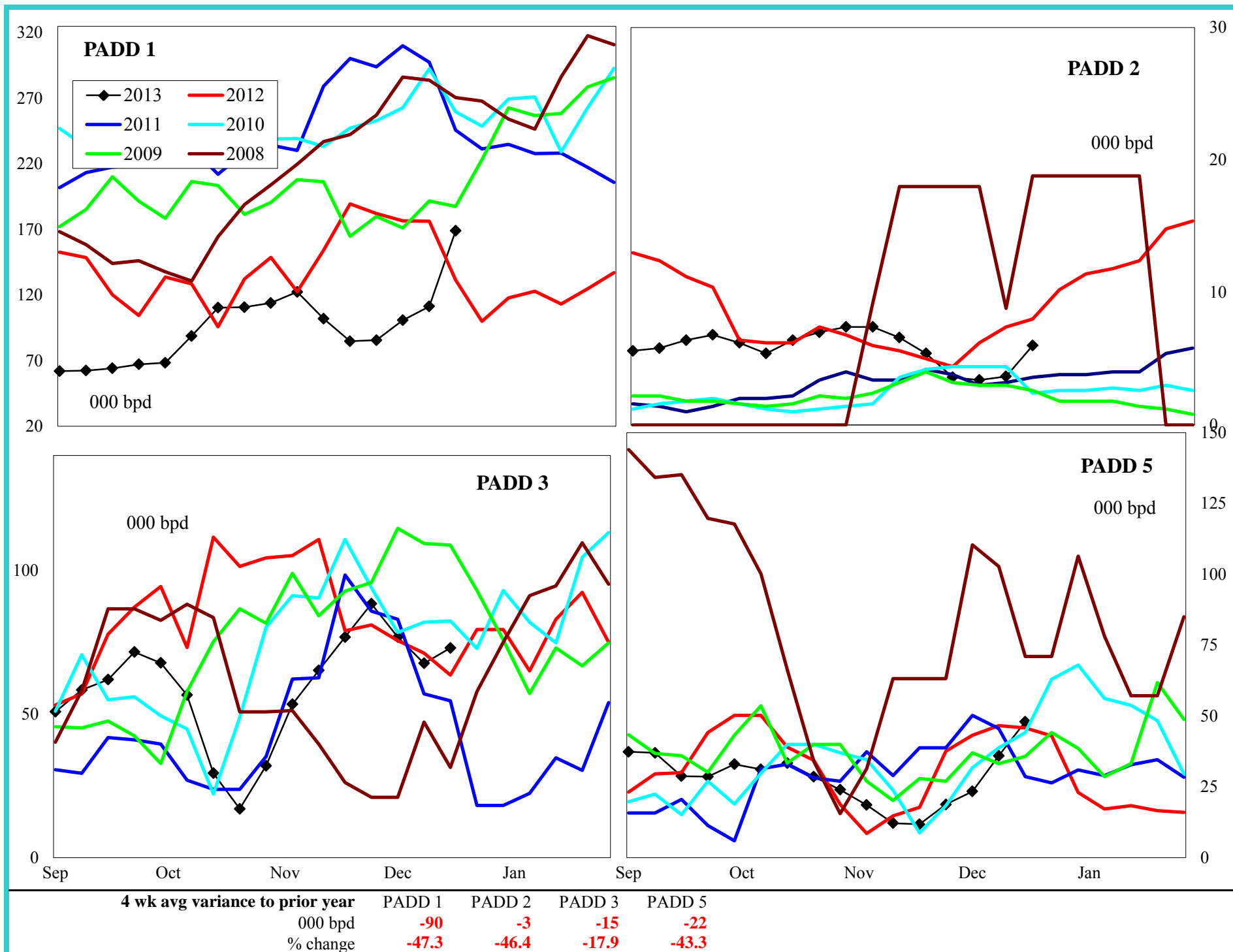


# Jet Fuel Imports by PADD

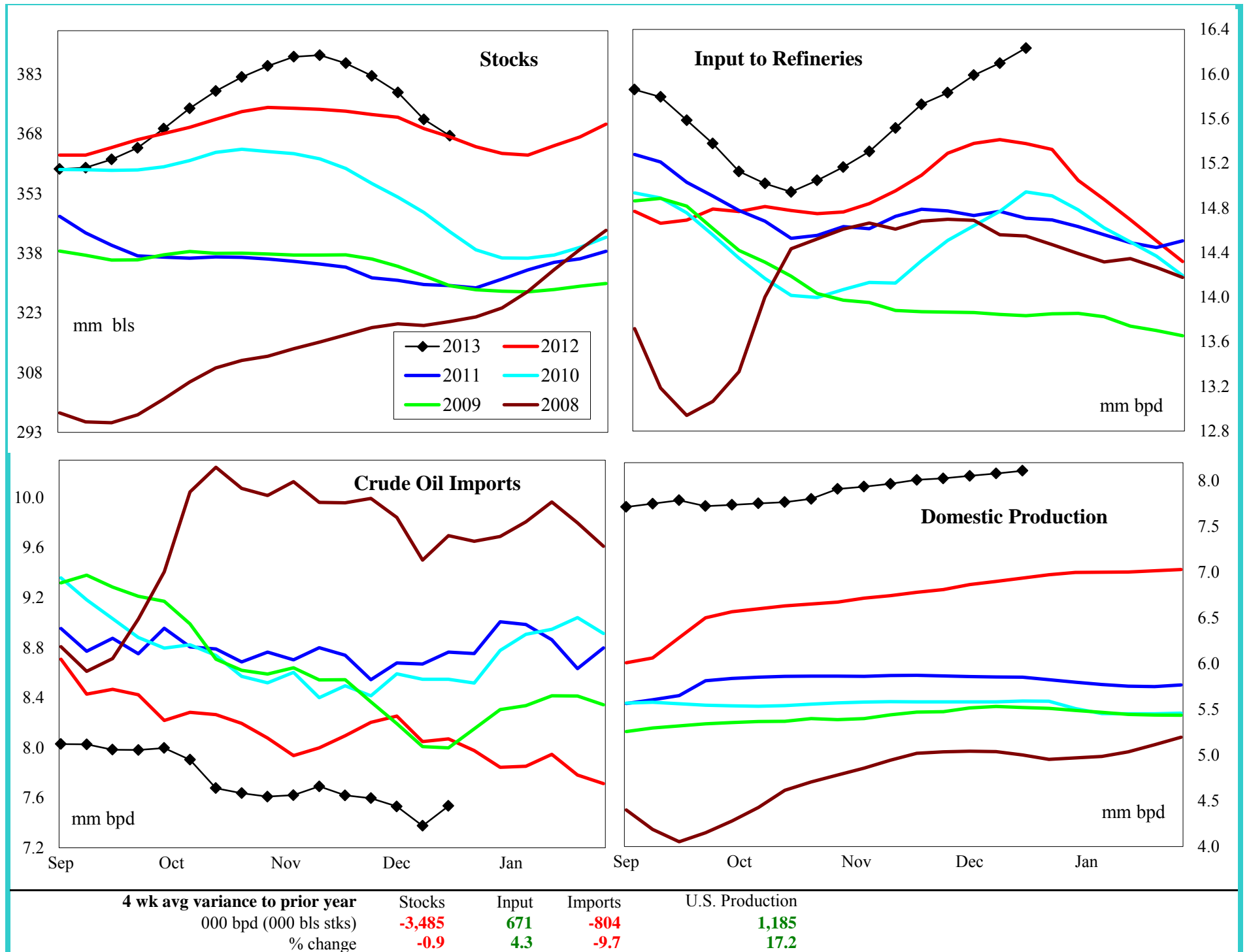




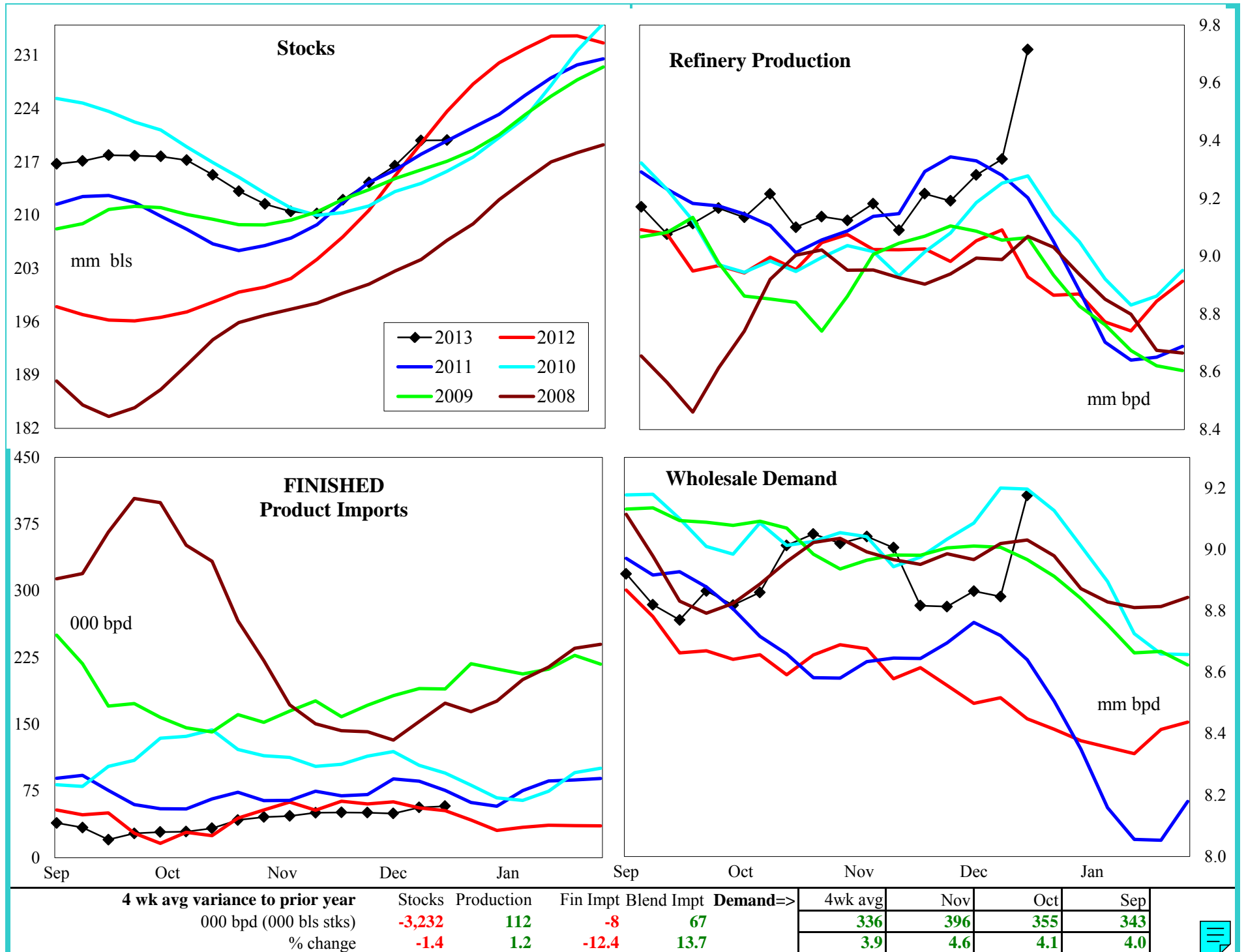
## Residual Fuel Oil Imports by PADD



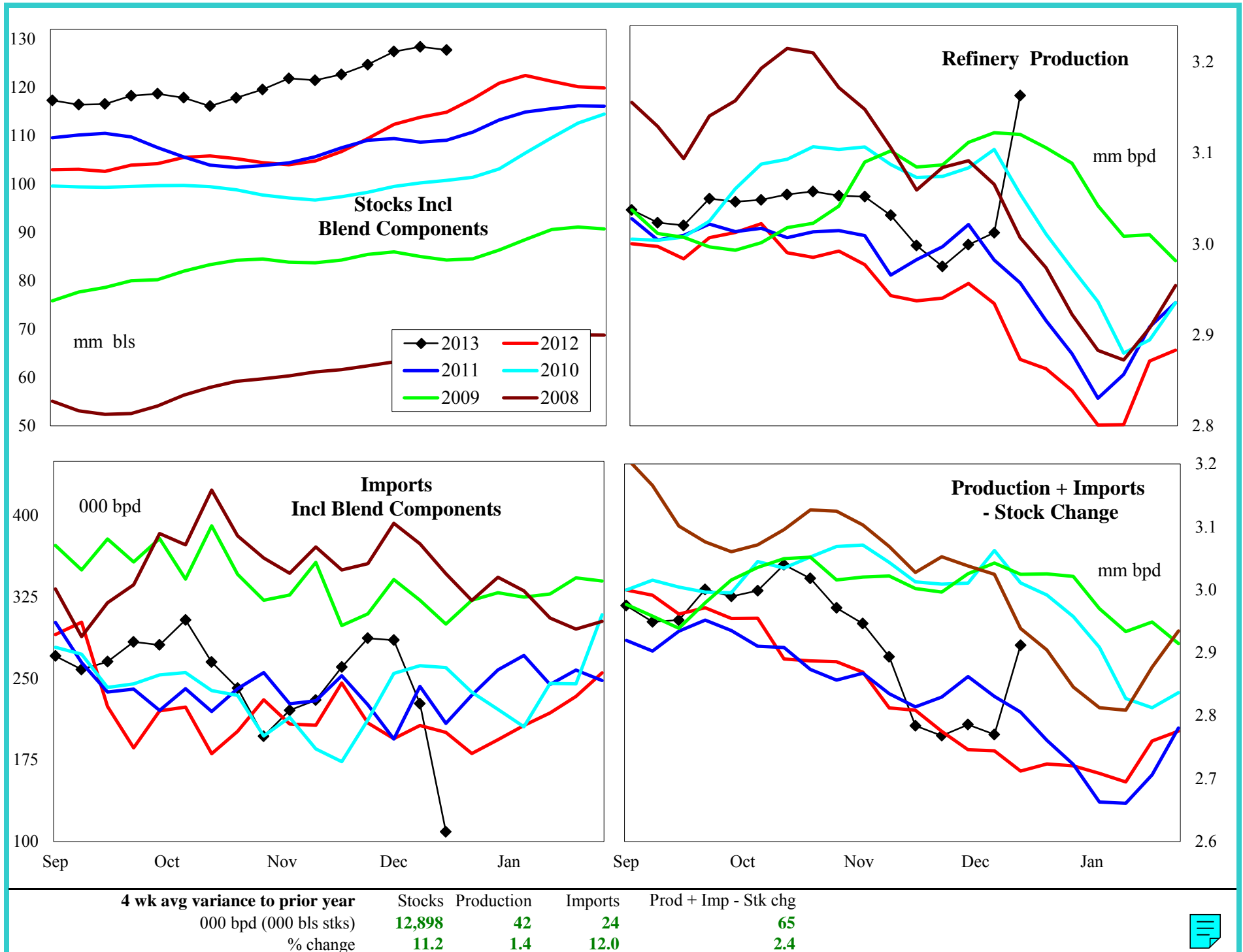
# United States Crude Oil Supply and Demand Balance



# United States Gasoline Supply and Demand Balance

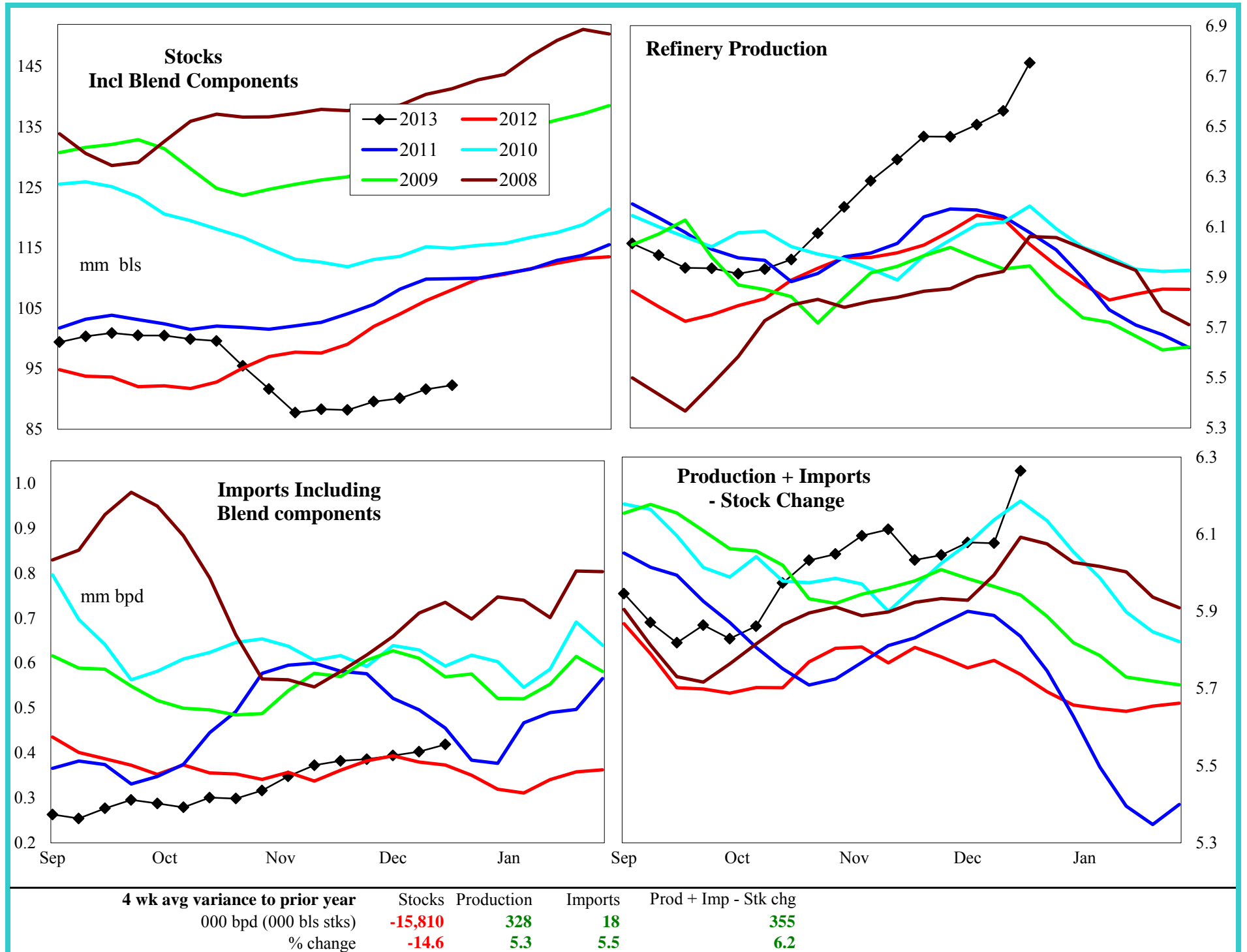


# United States Reformulated Gasoline Supply

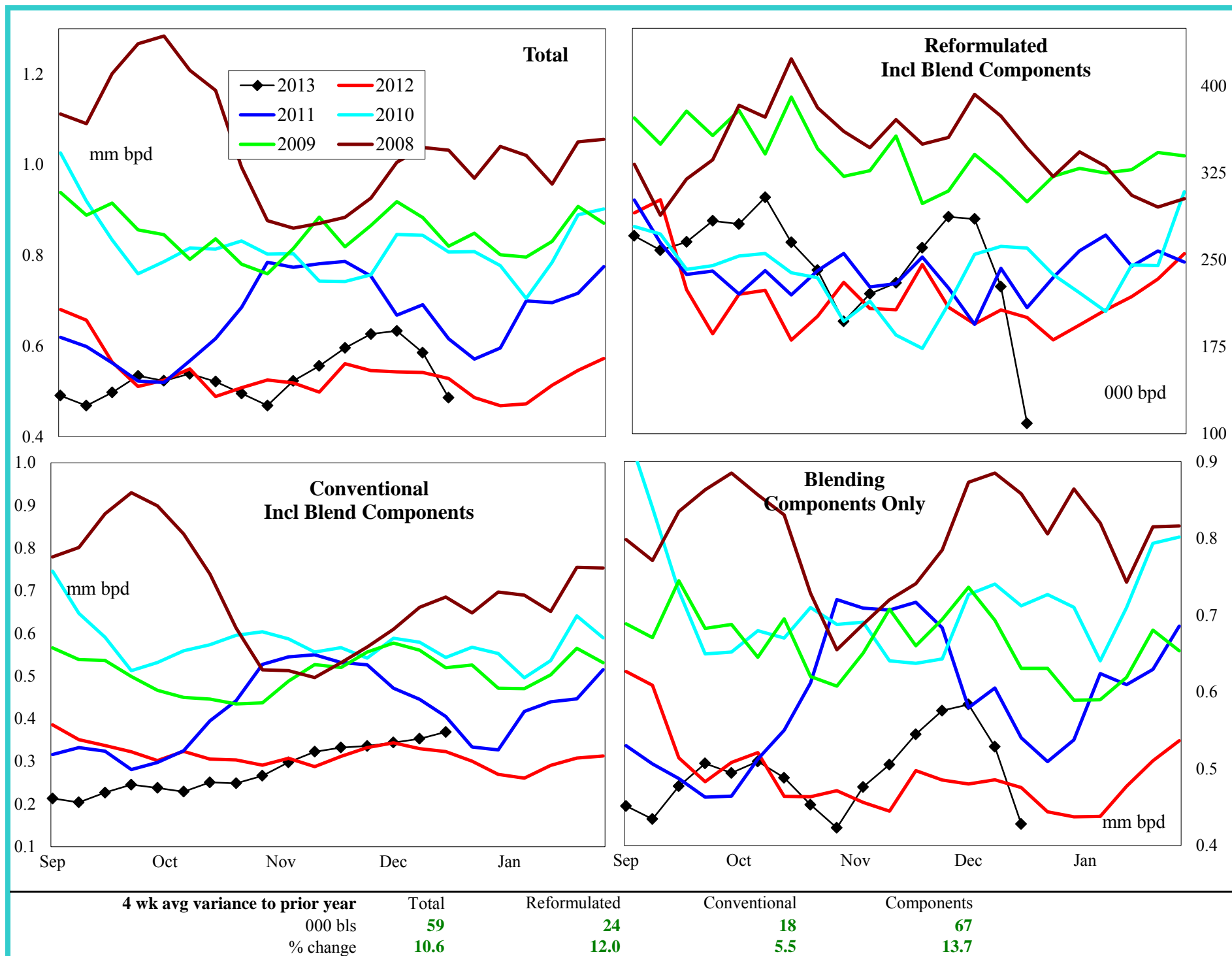




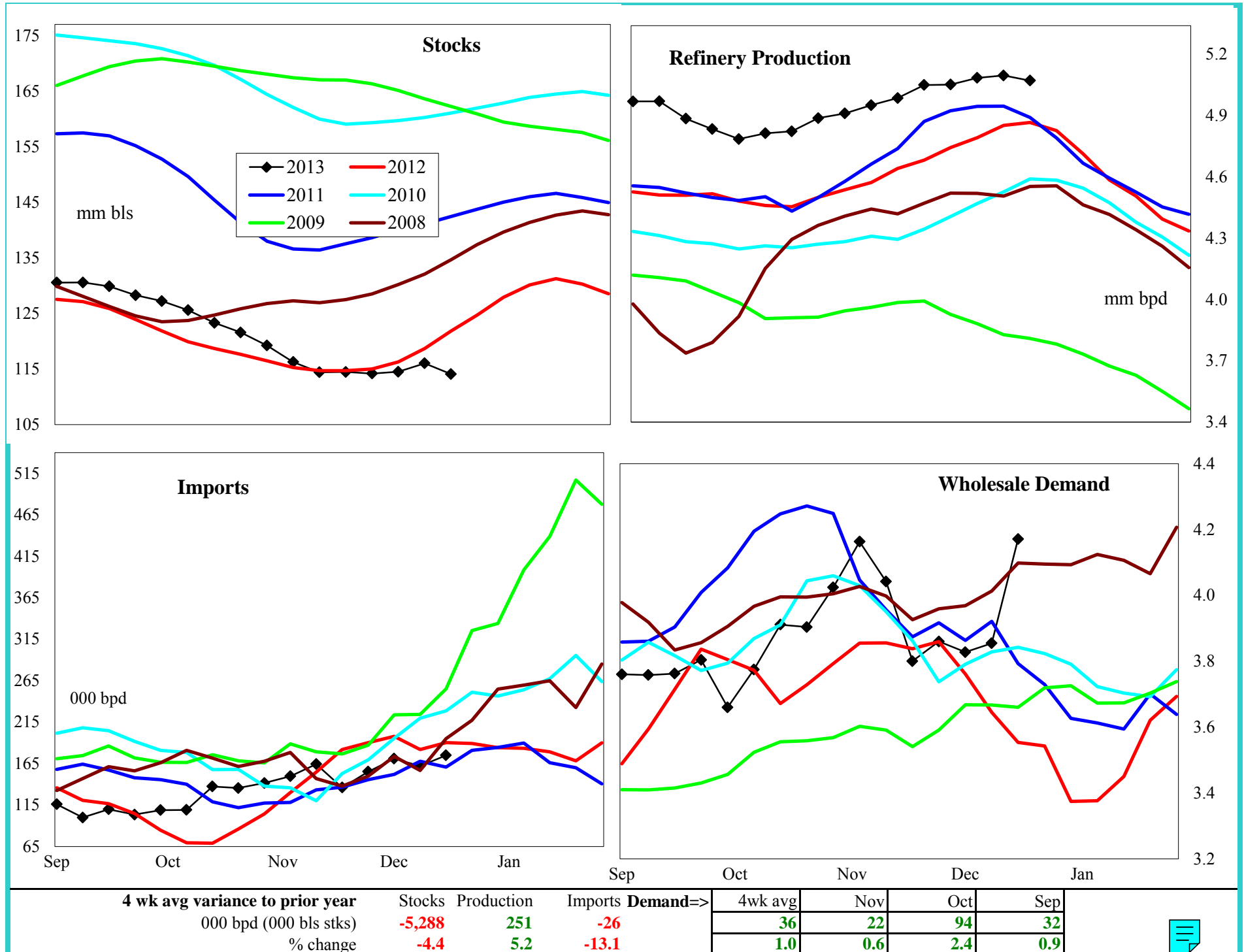
# United States Conventional Gasoline Supply



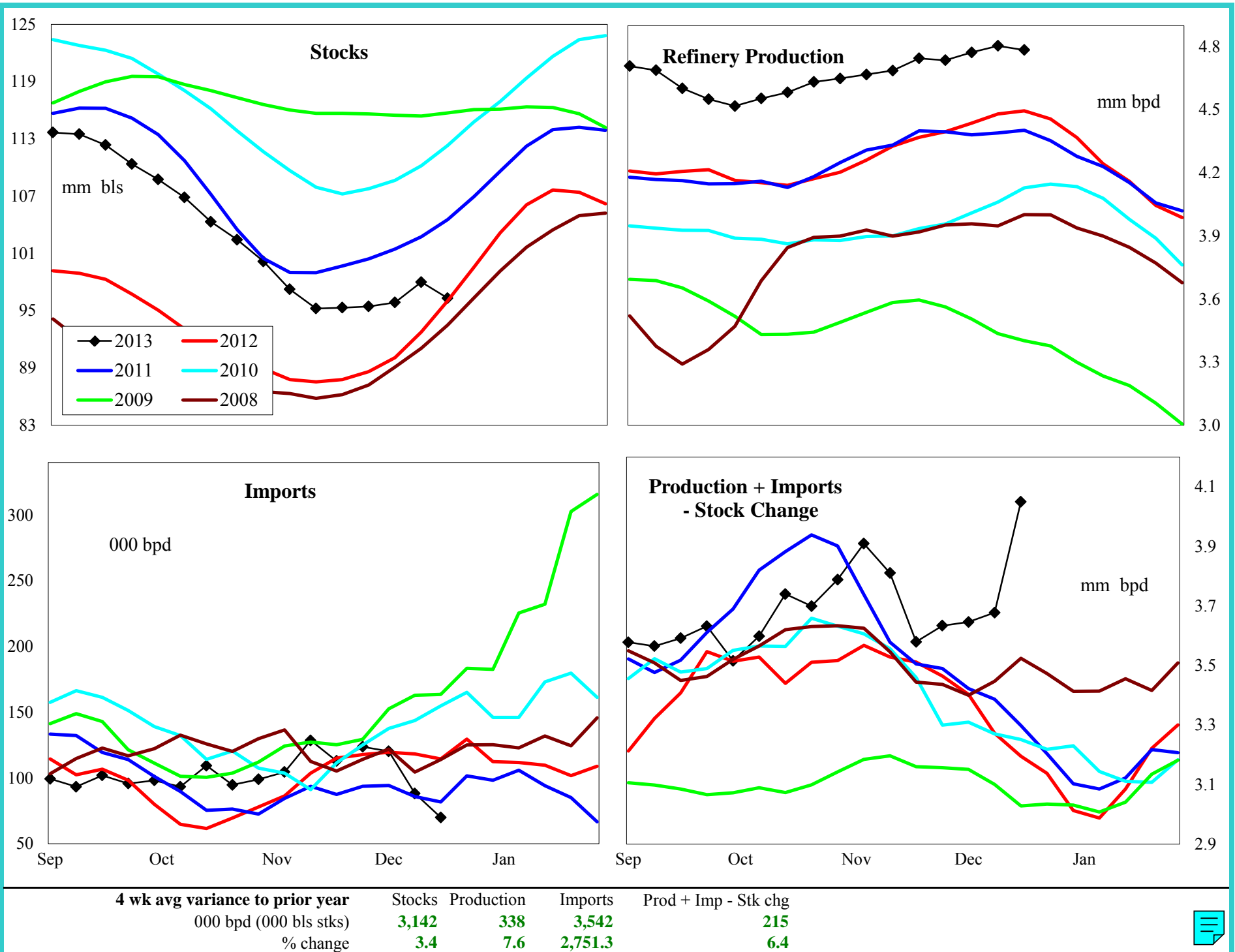
# United States Gasoline Imports by Type



# United States Distillate Supply and Demand Balance

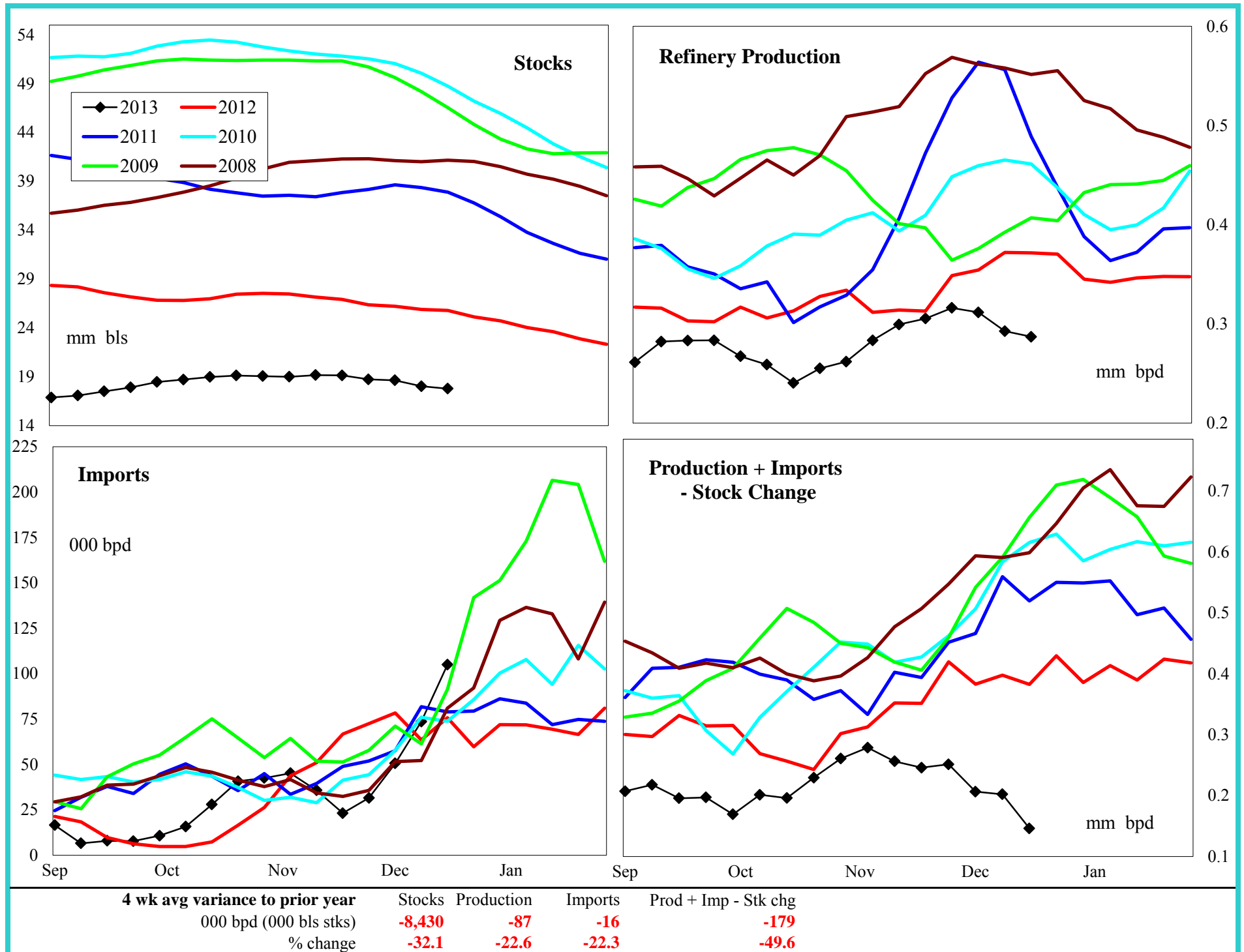


# United States Low Sulfur Distillate Supply

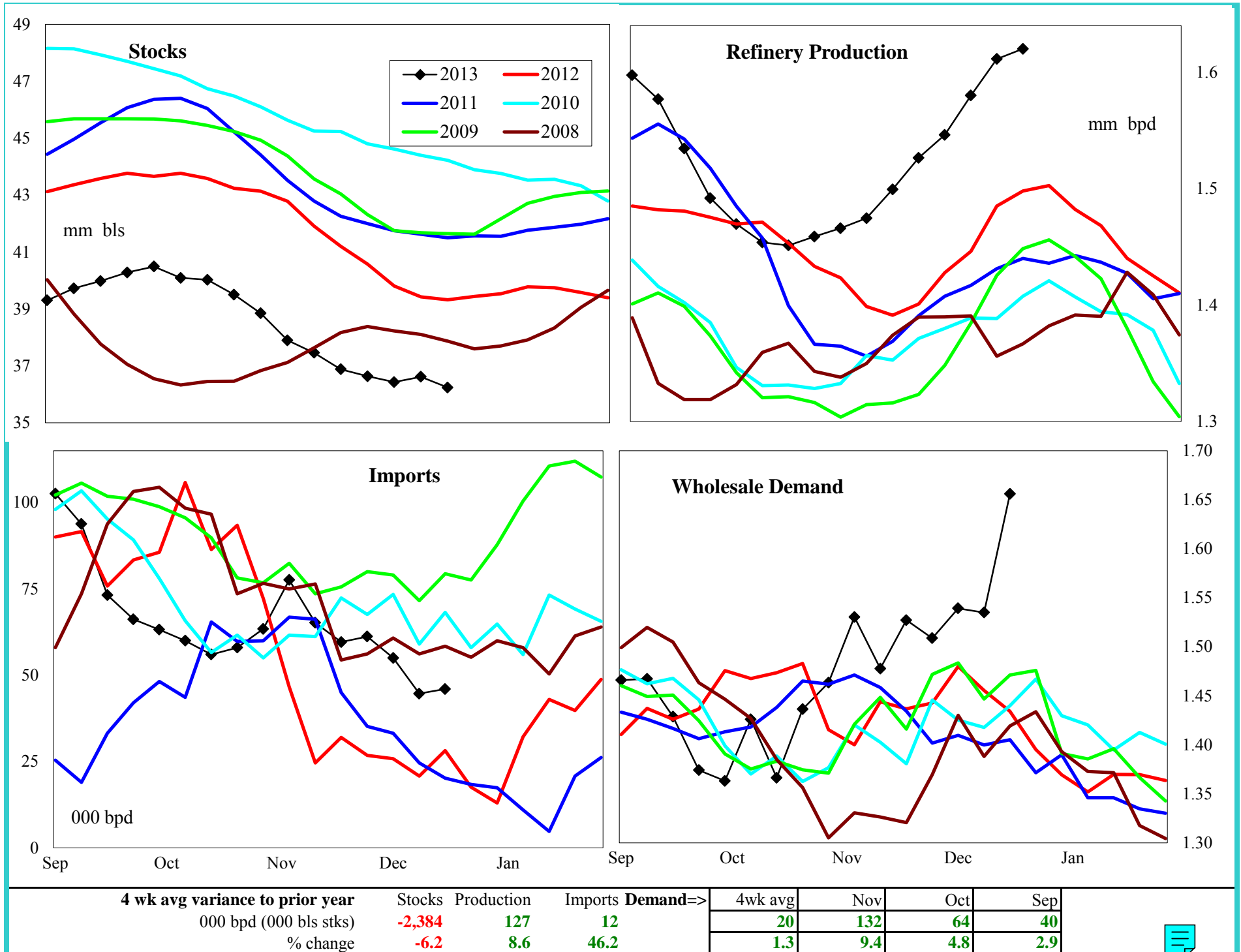




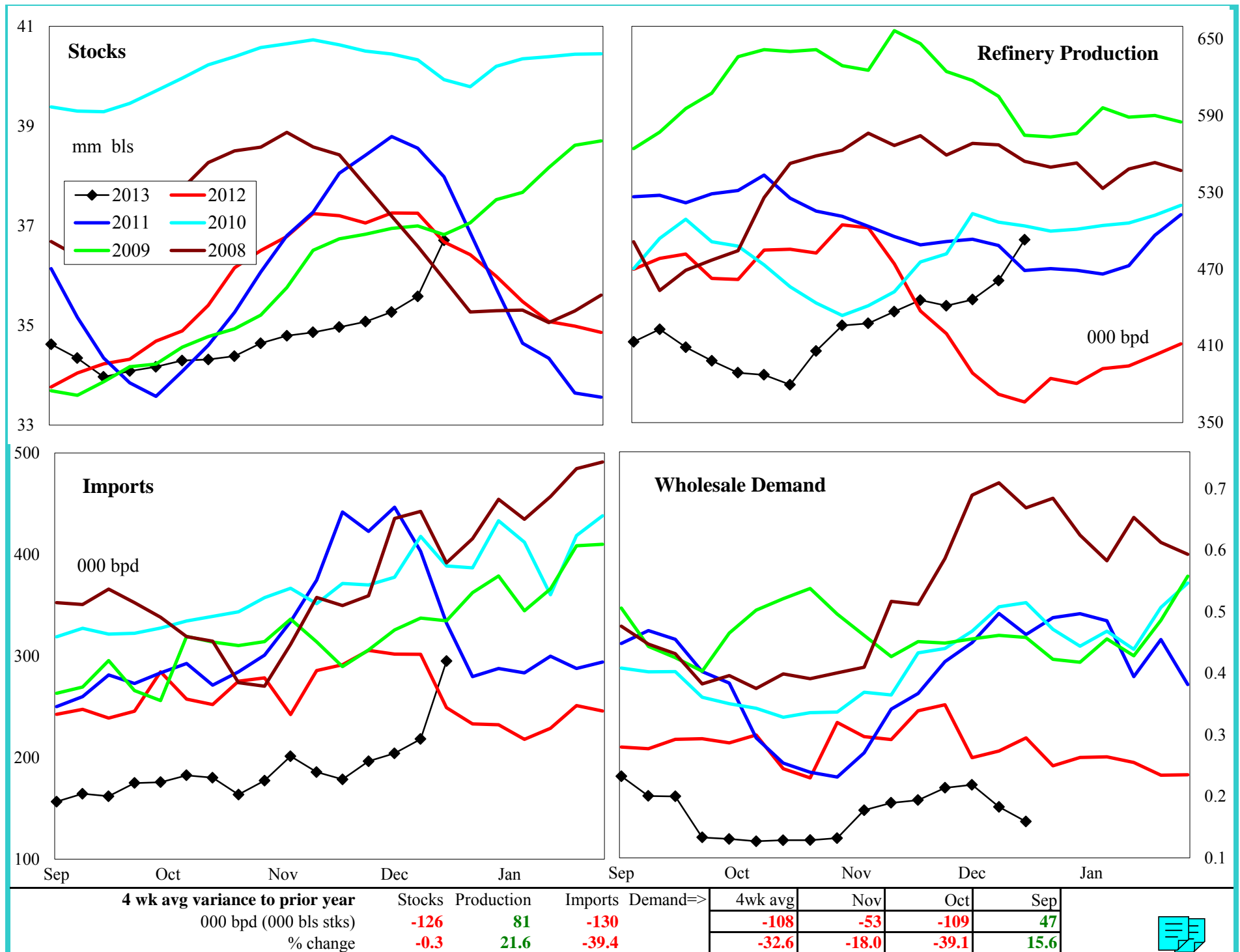
# United States High Sulfur Distillate Supply



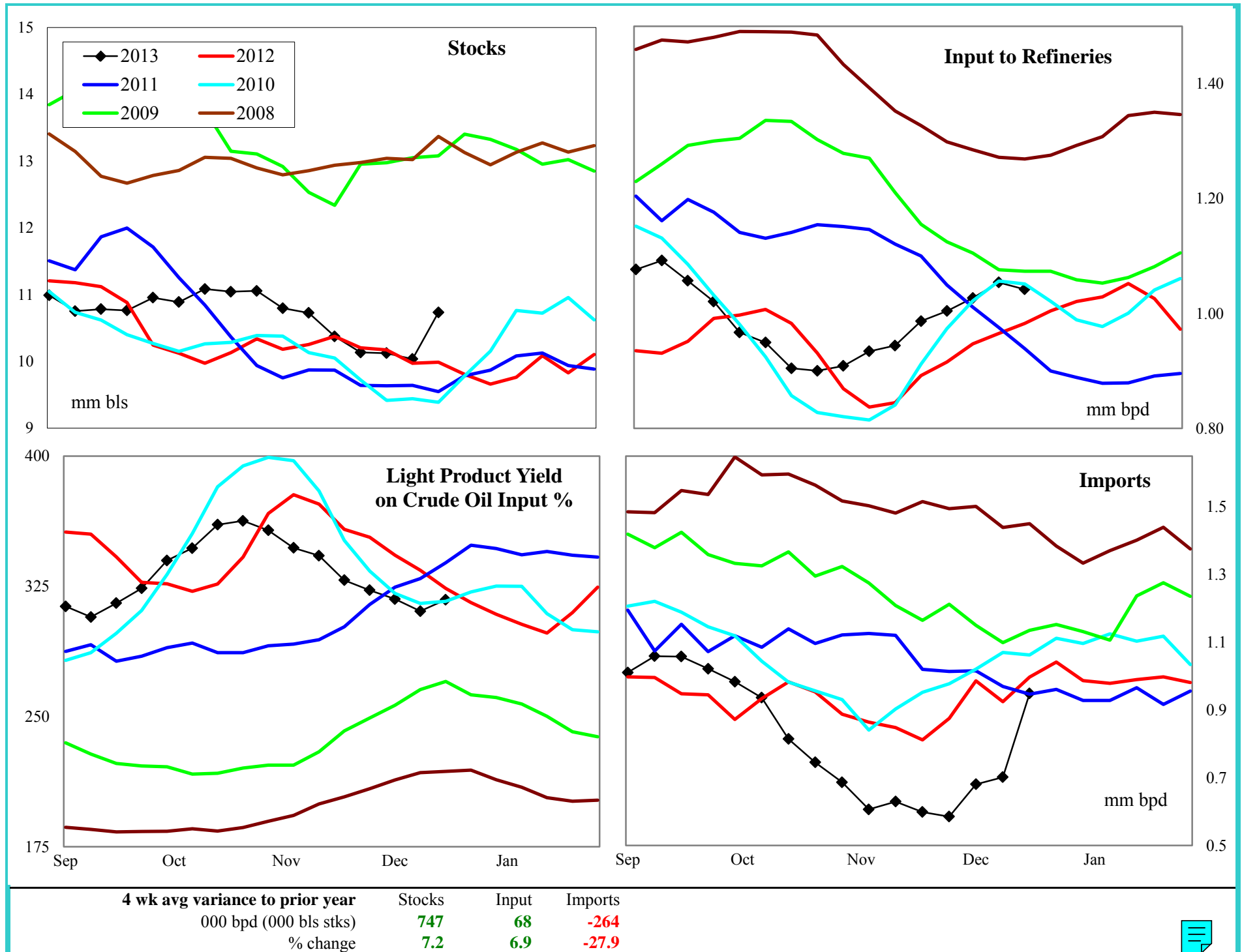
# United States Jet Fuel Supply and Demand Balance



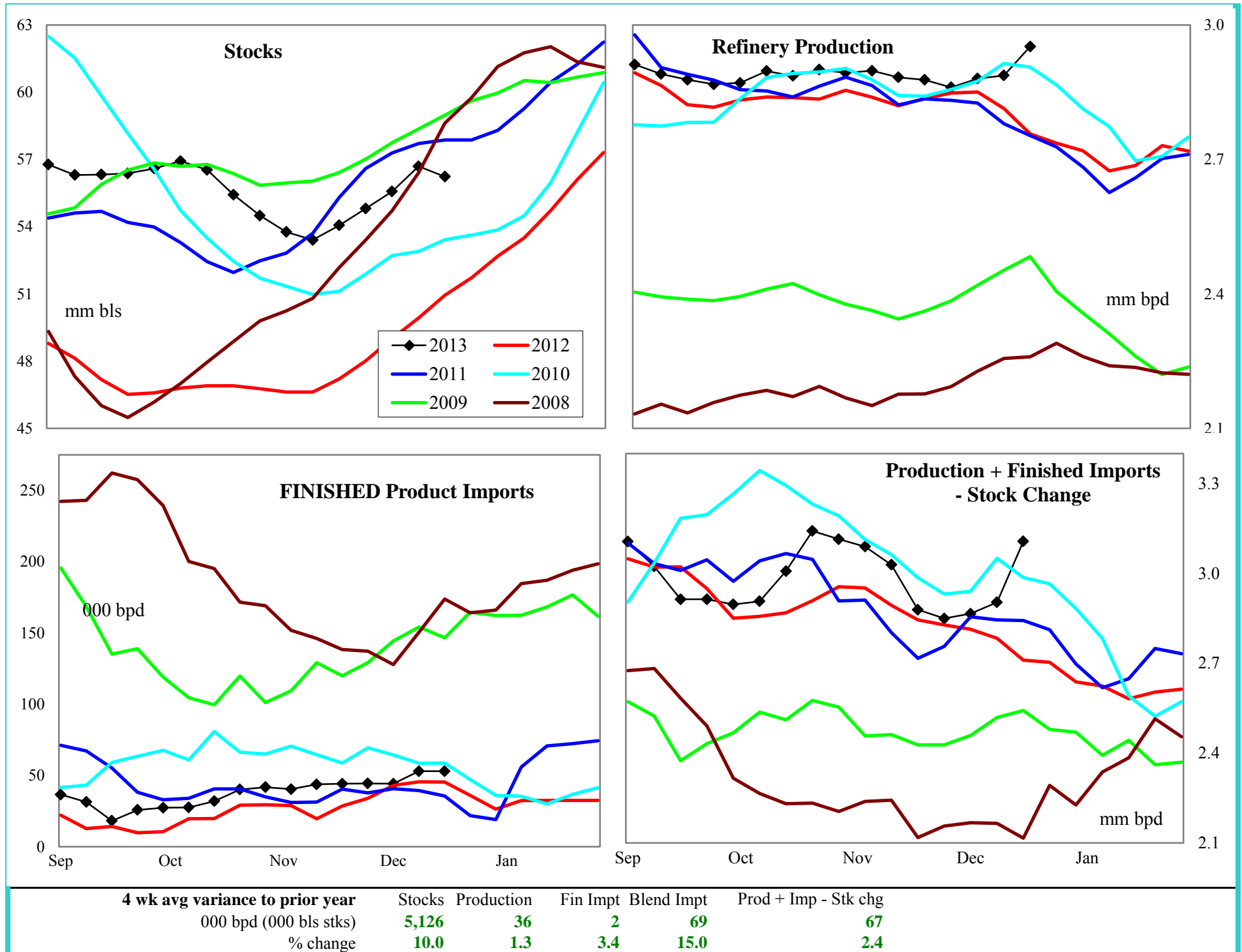
# United States Residual Fuel Oil Supply and Demand Balance



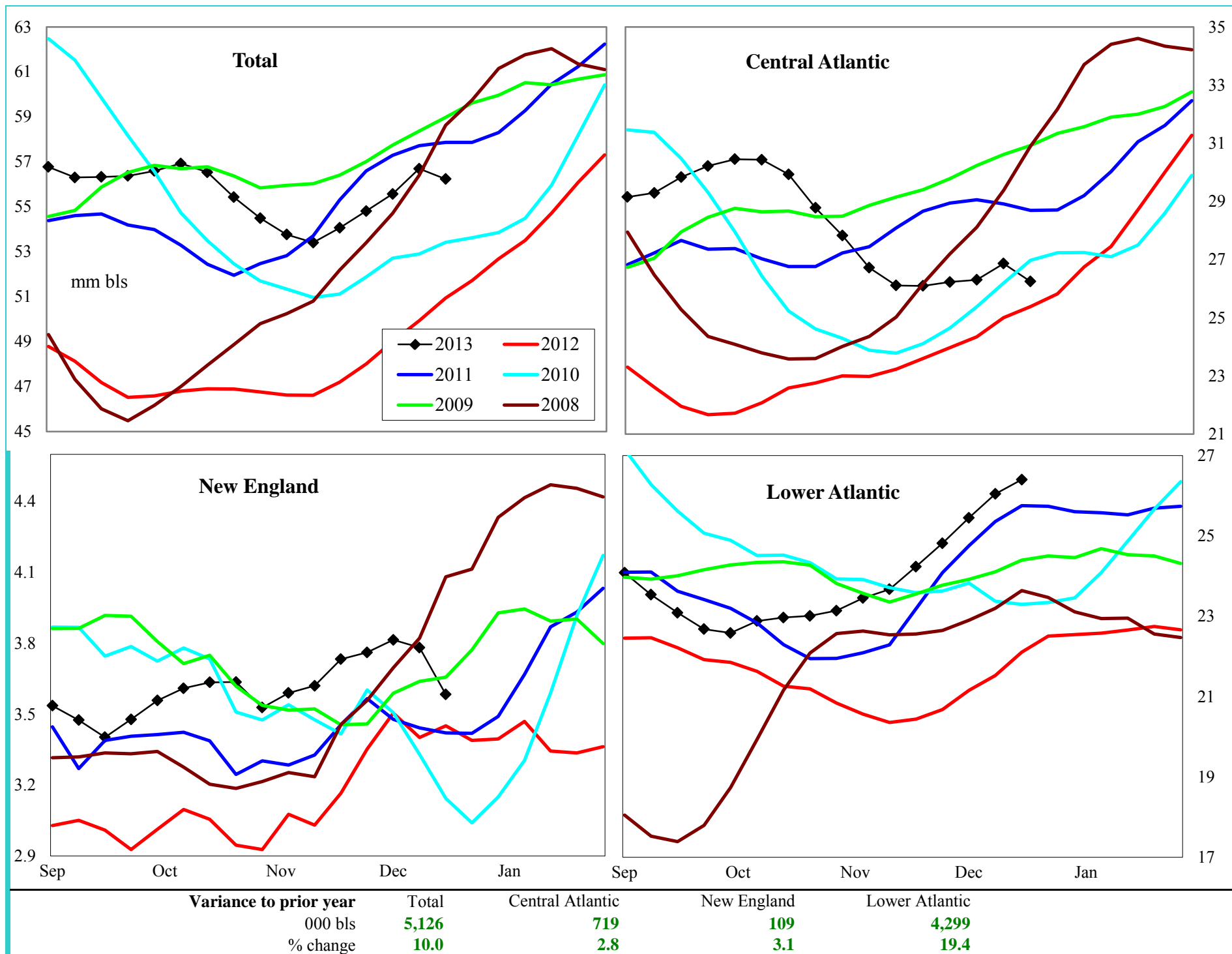
# PADD 1 Crude Oil Supply and Refining



## PADD 1 Gasoline Supply

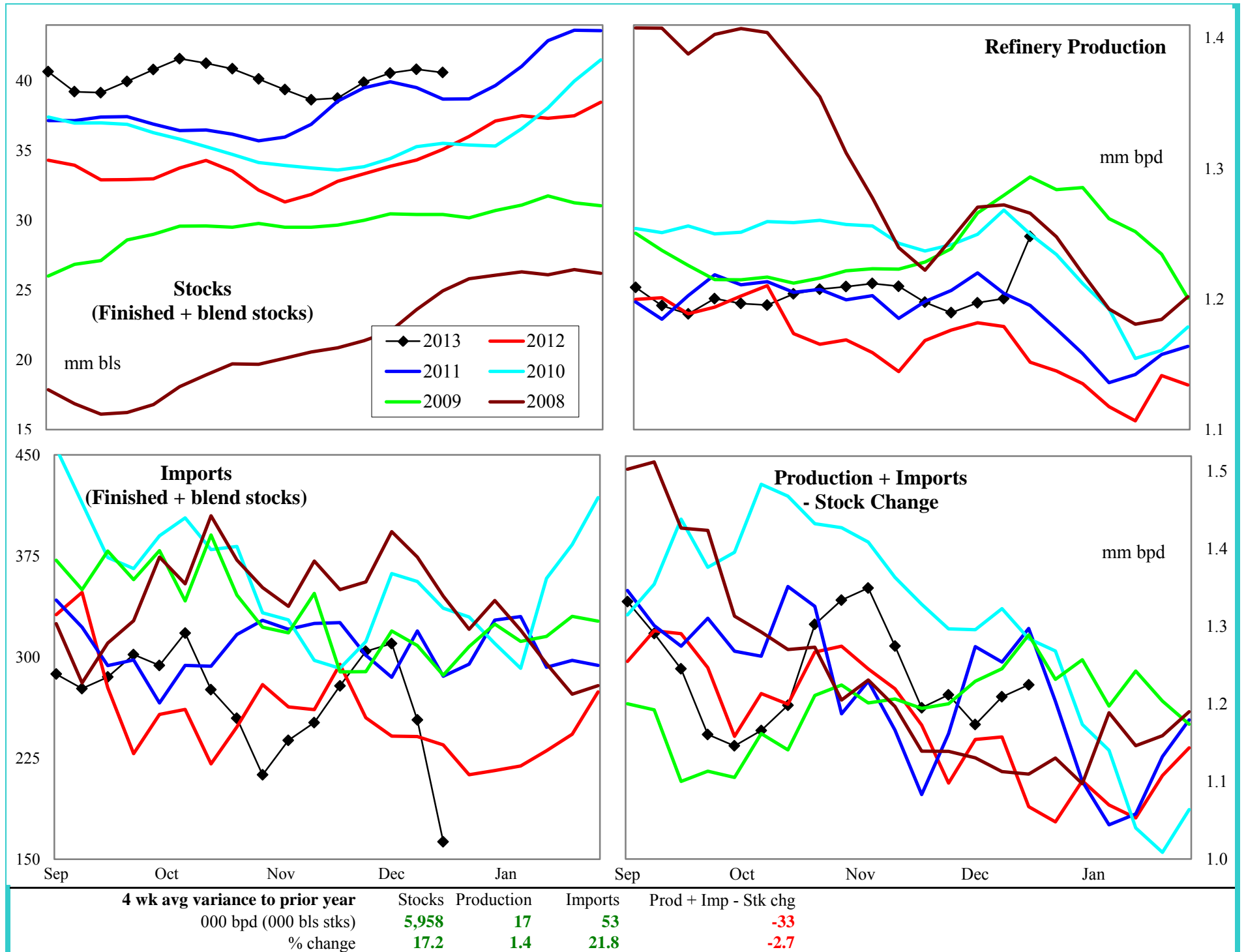


# PADD 1 Gasoline Stocks by Region

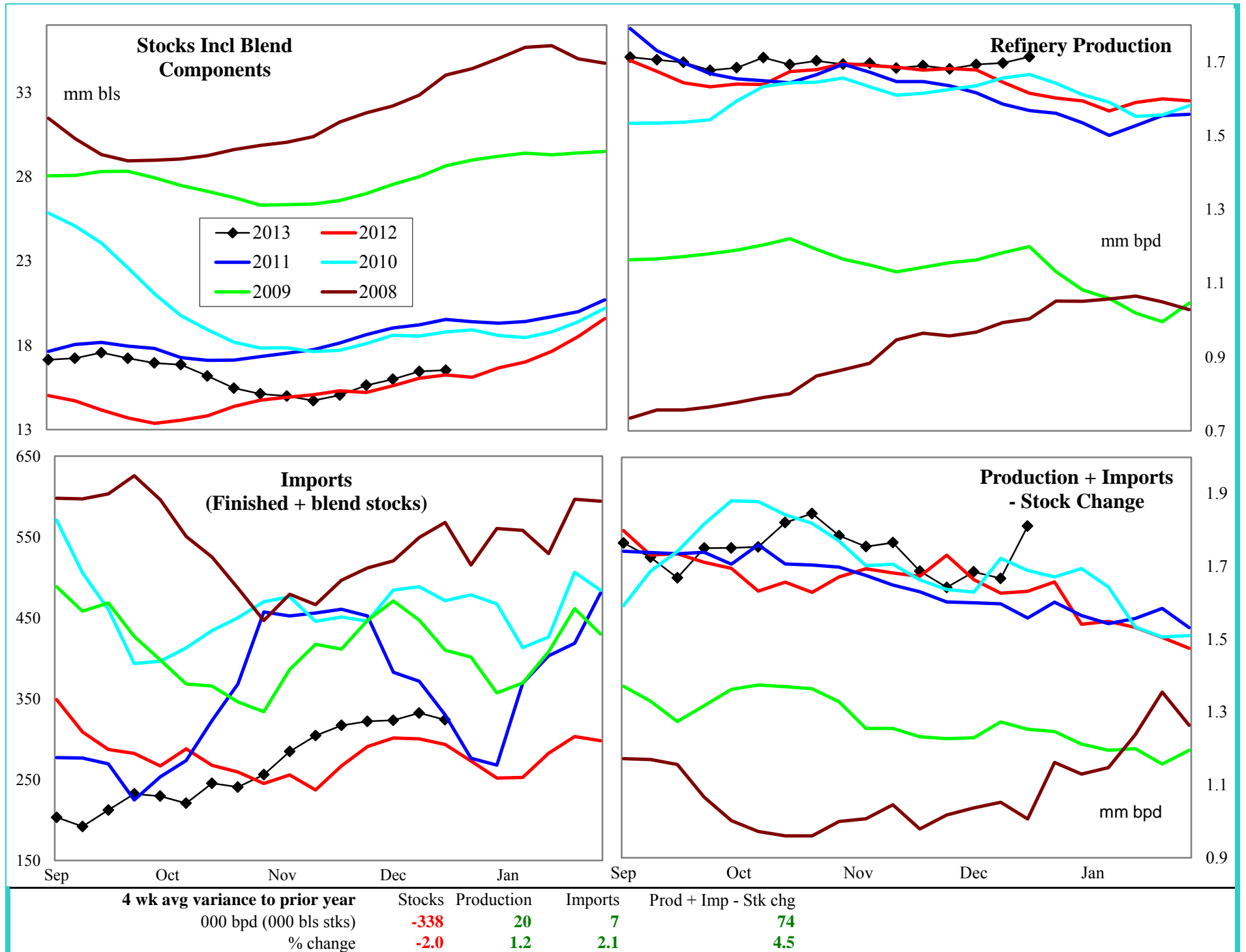




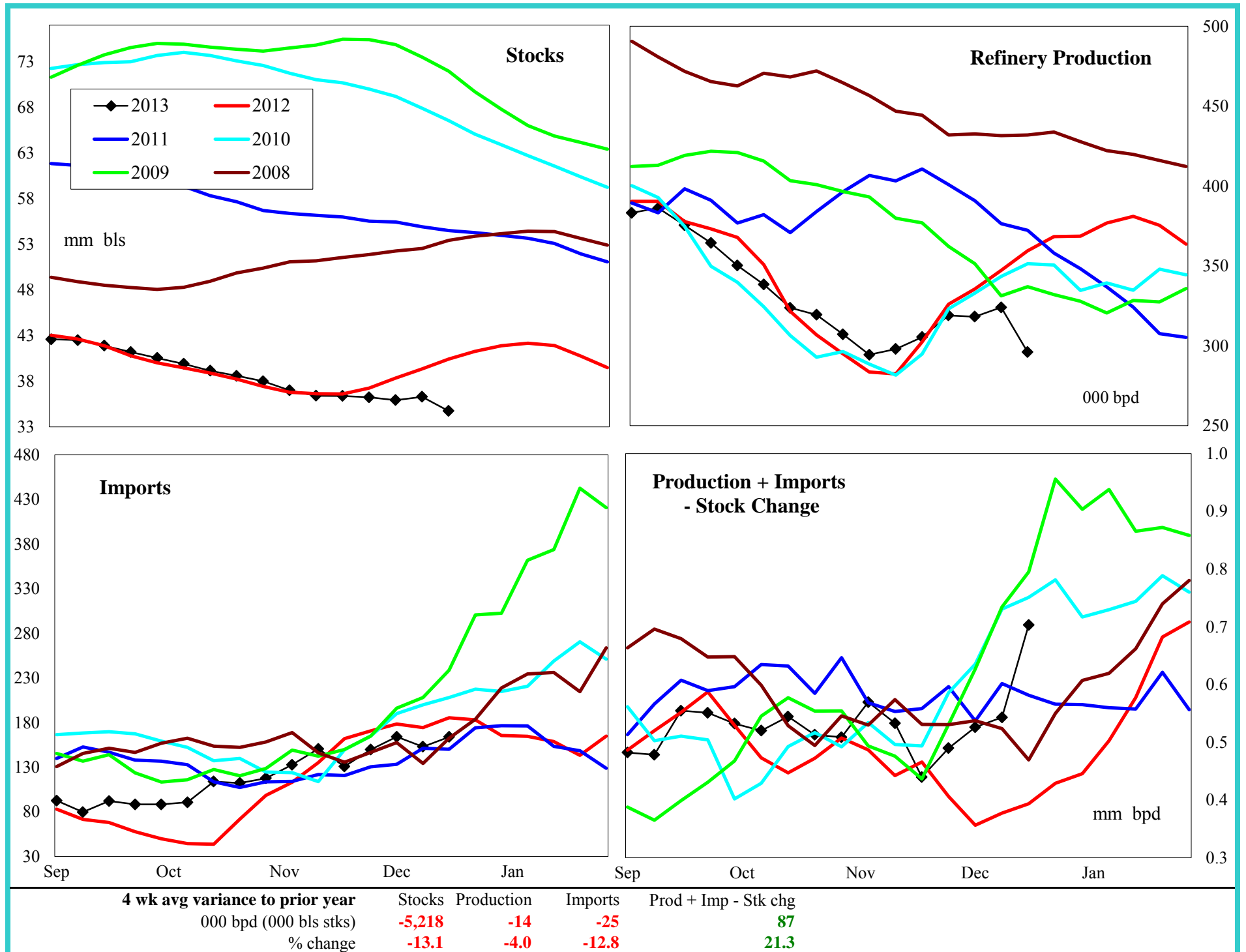
# PADD 1 Reformulated Gasoline Supply



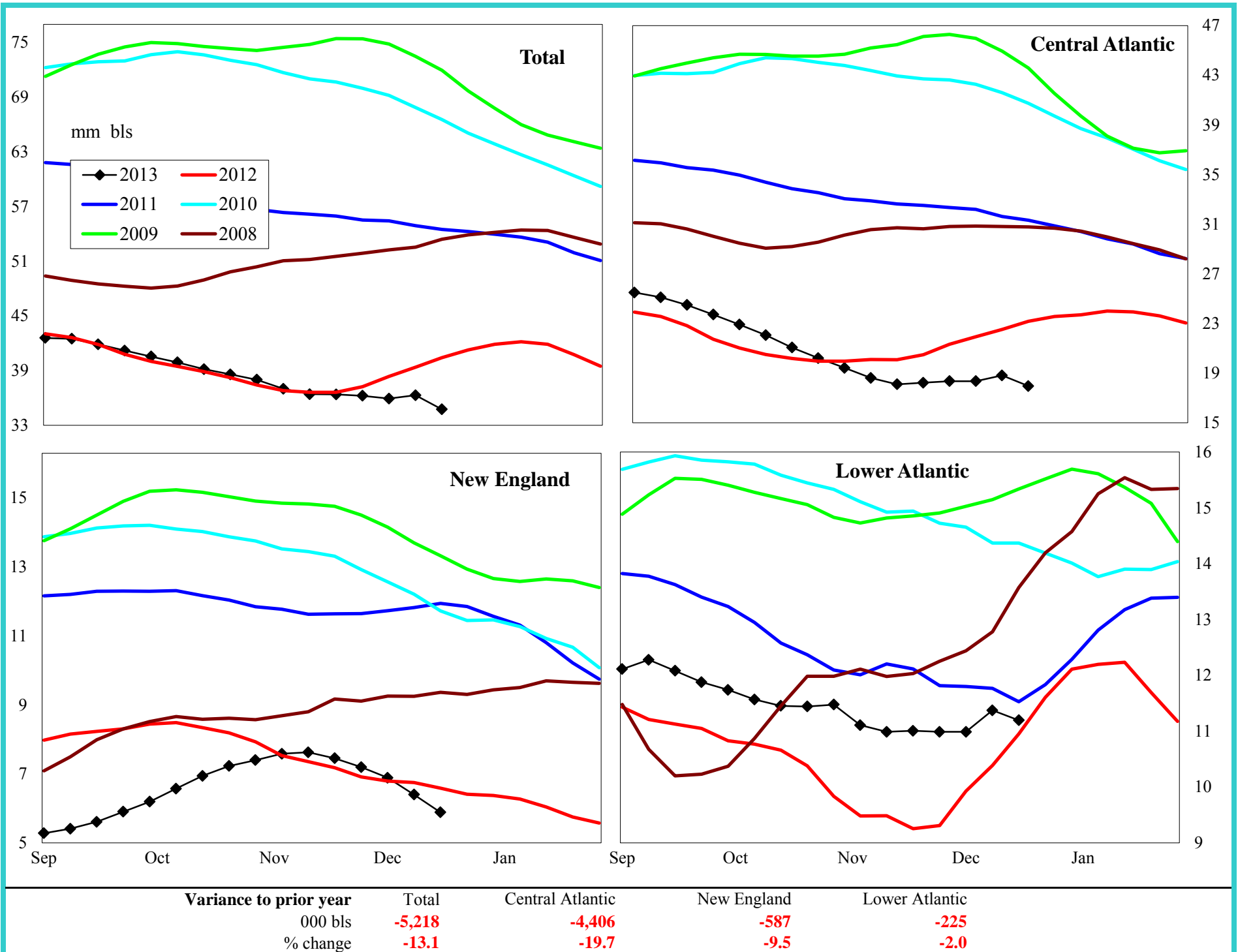
# PADD 1 Conventional Gasoline Supply



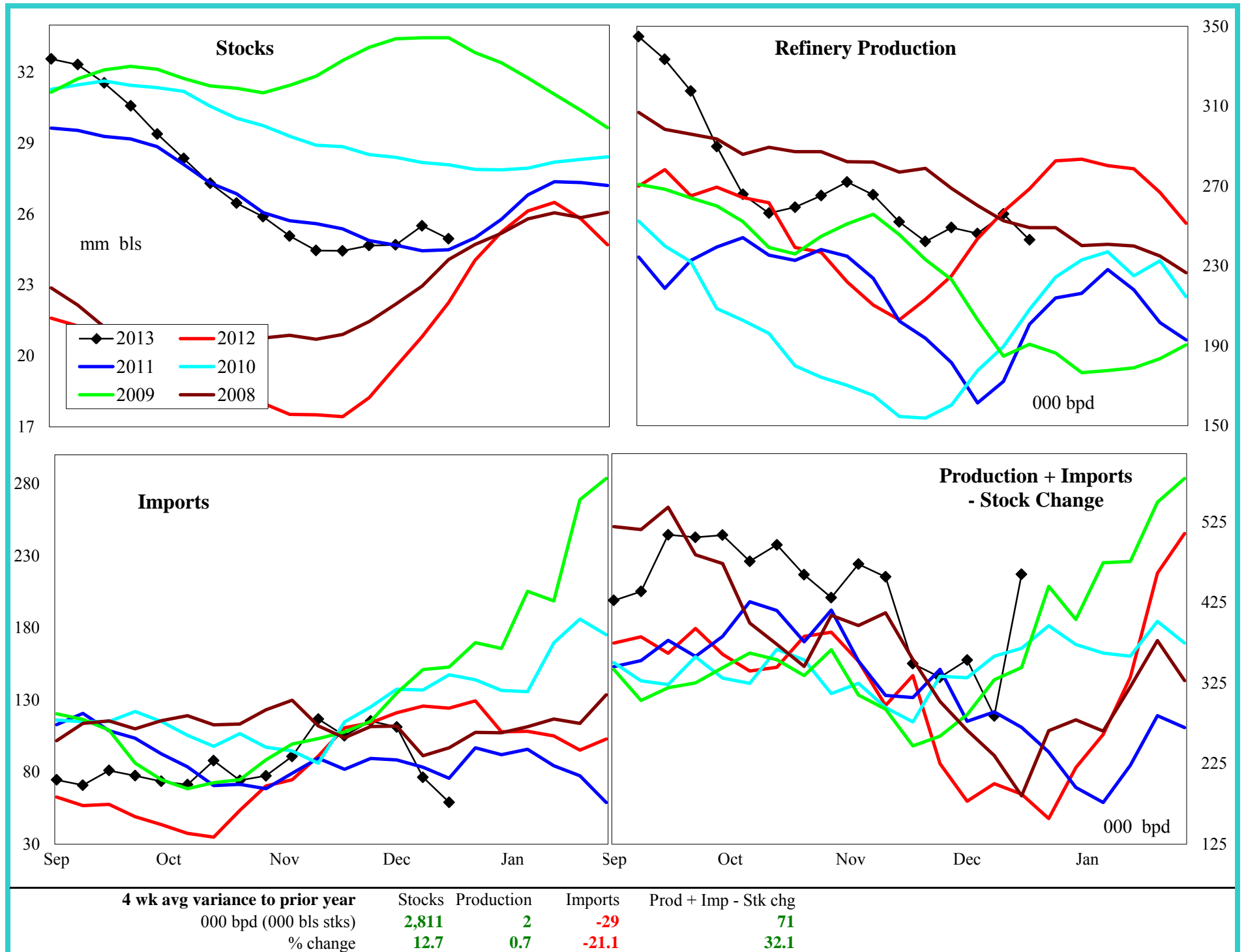
# PADD 1 Distillate Supply



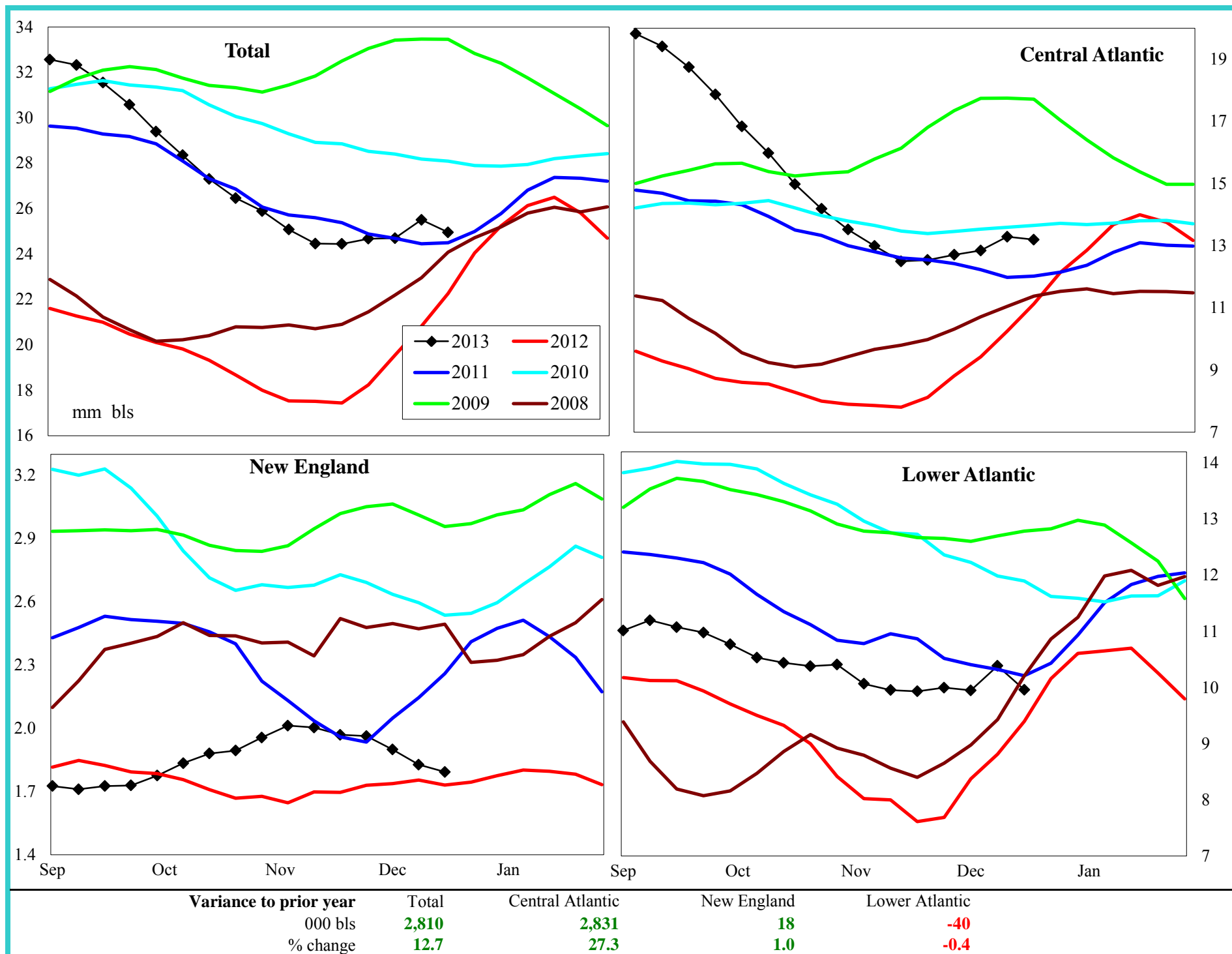
# PADD 1 Distillate Stocks by Region



# PADD 1 Low Sulfur Distillate Supply

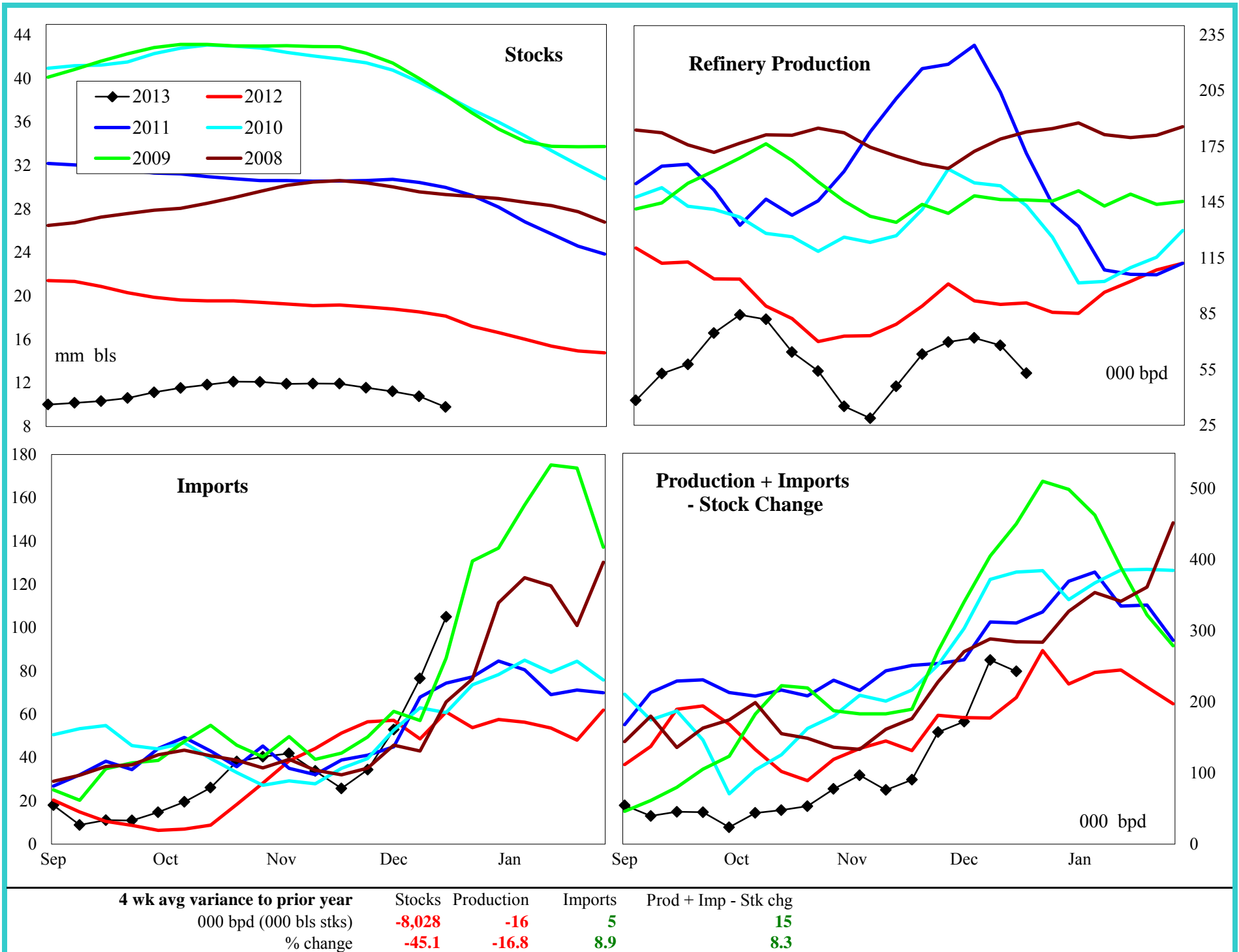


# PADD 1 Low Sulfur Distillate Stocks by Region

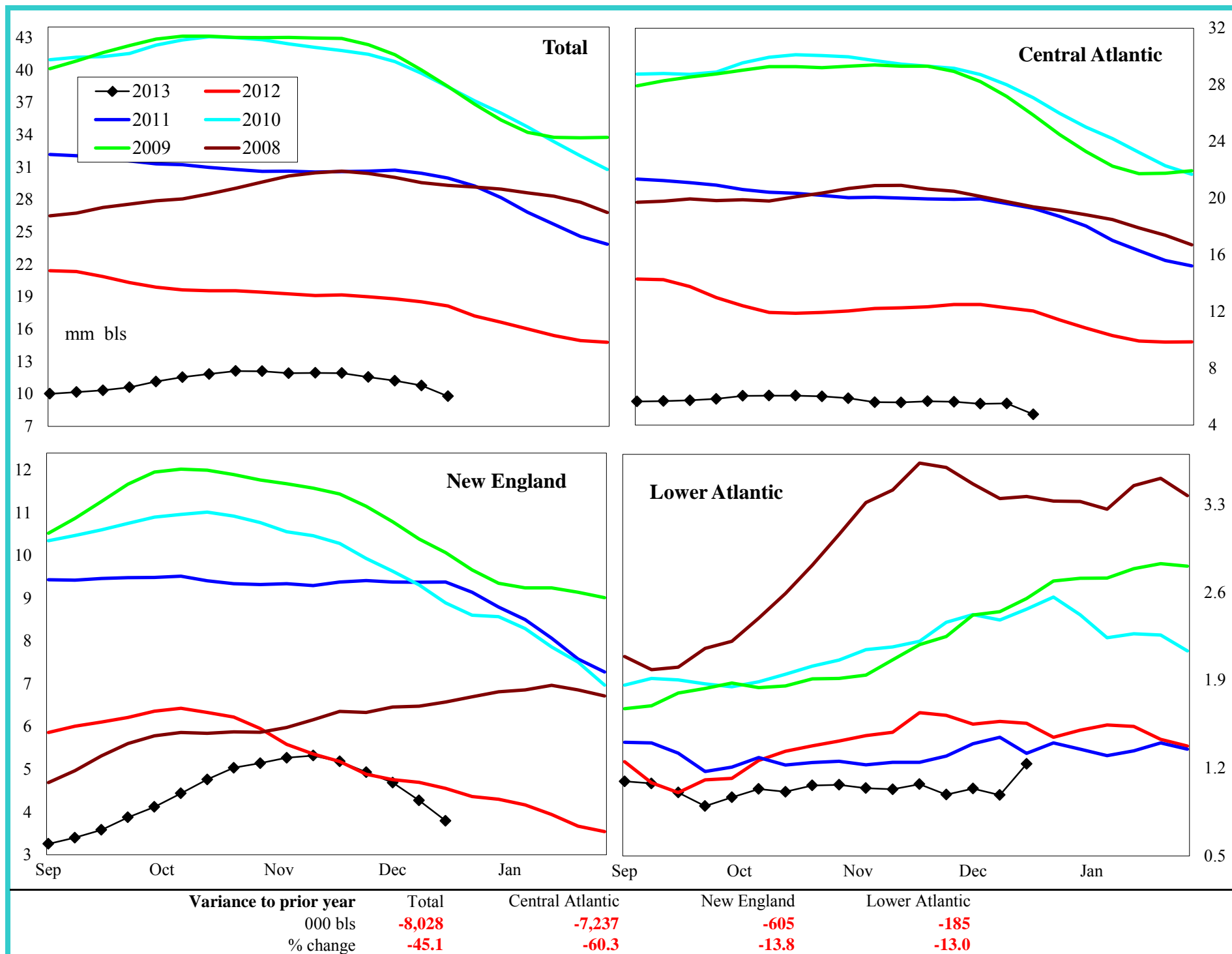




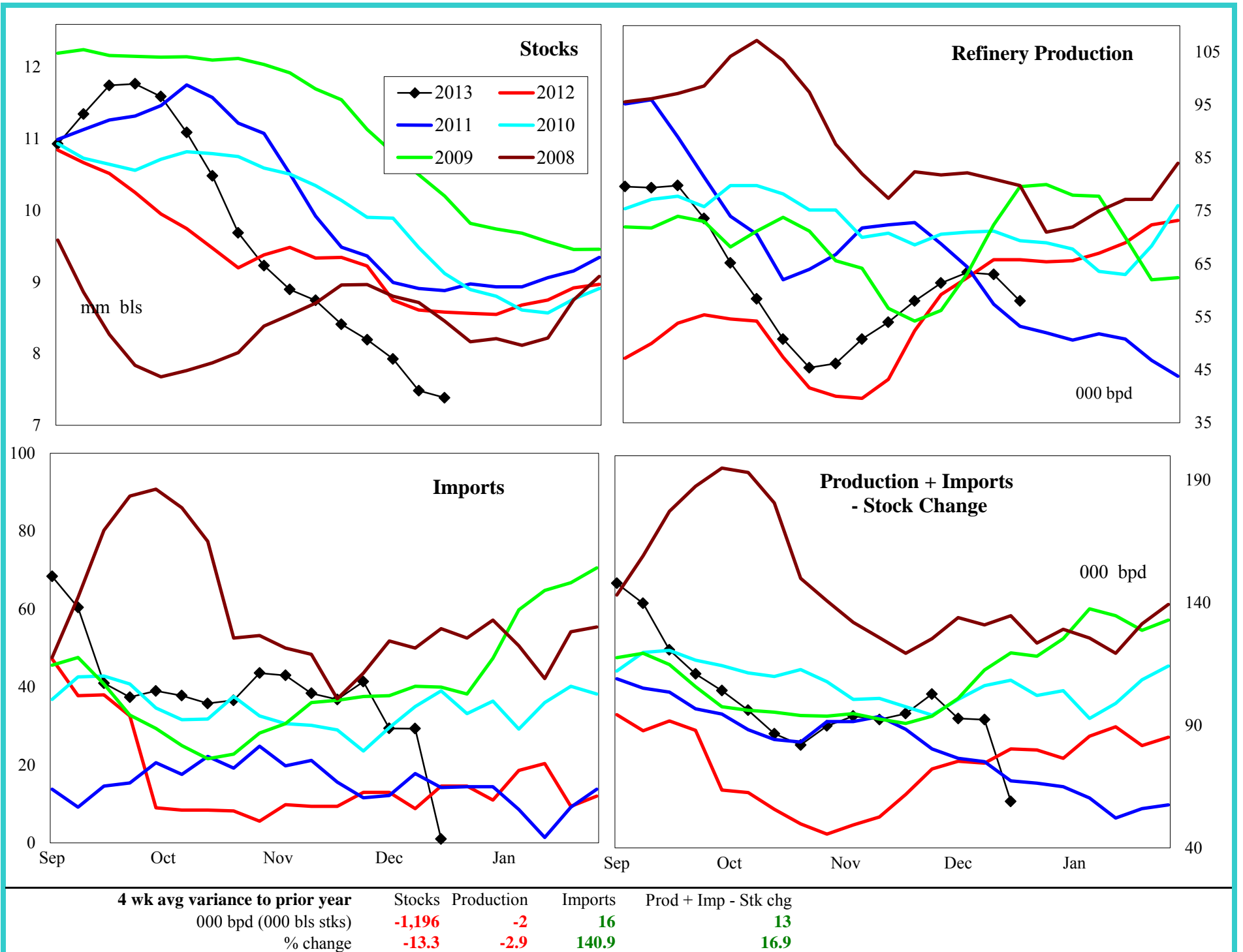
# PADD 1 High Sulfur Distillate Supply



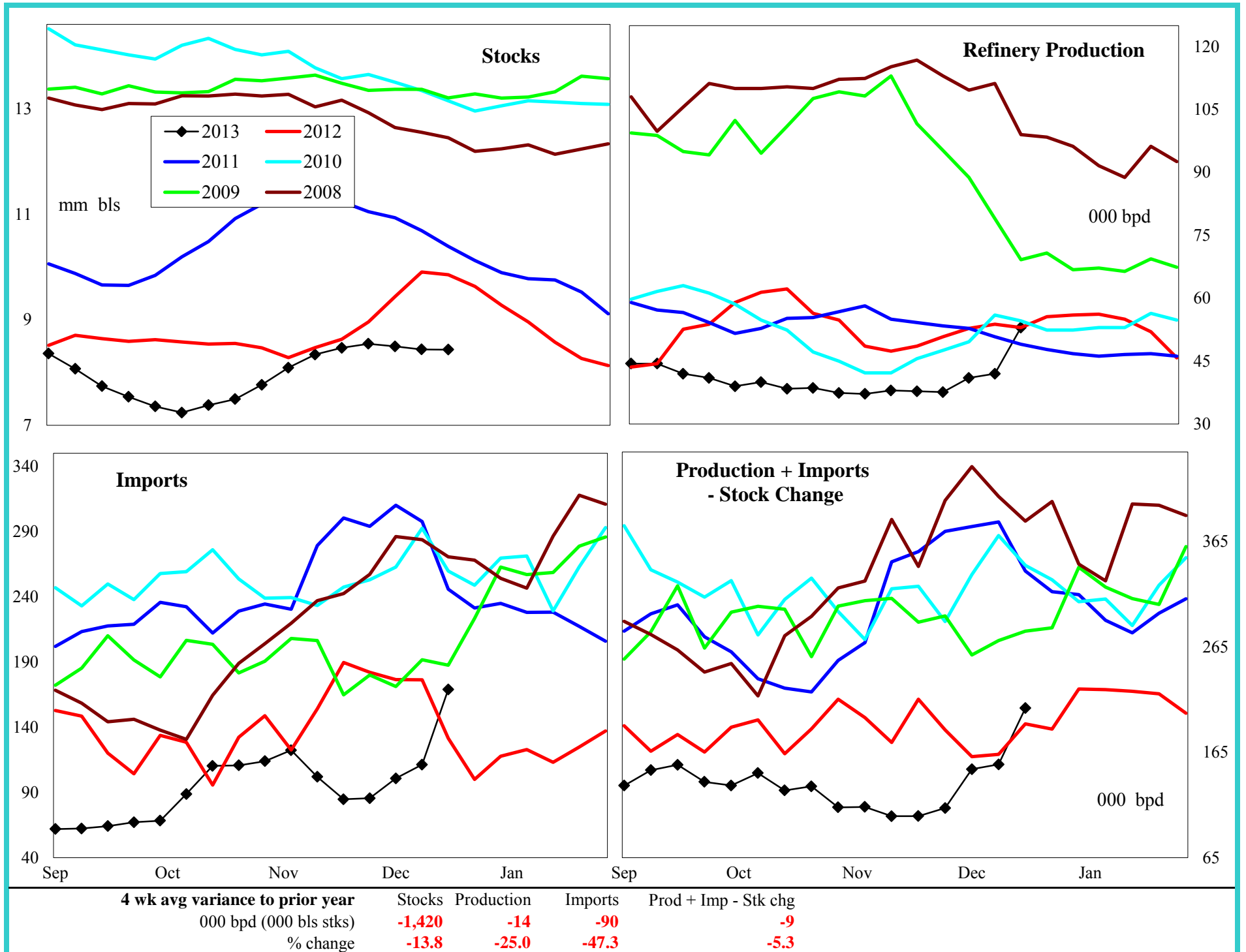
# PADD 1 High Sulfur Distillate Stocks by Region



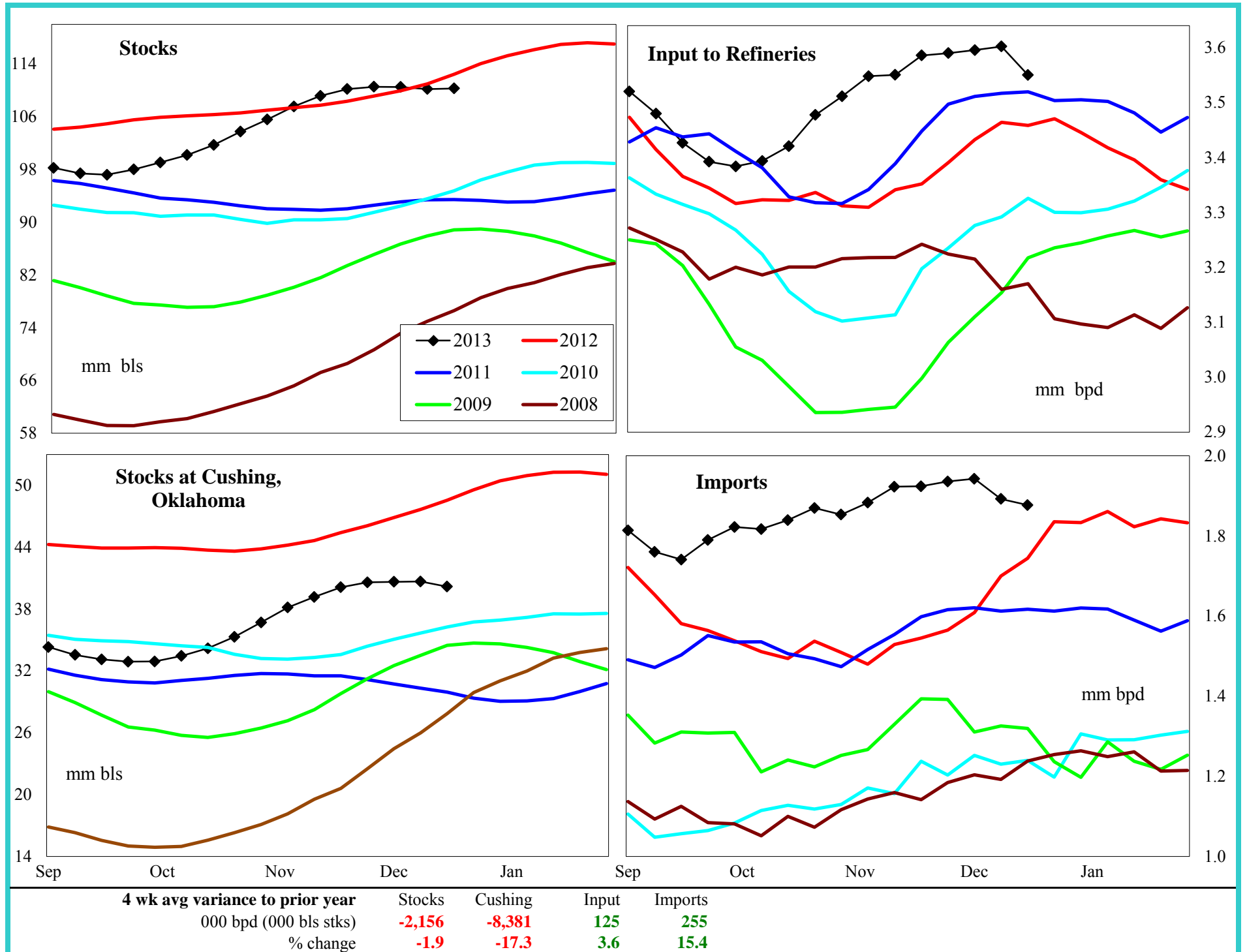
# PADD 1 Jet Fuel Supply



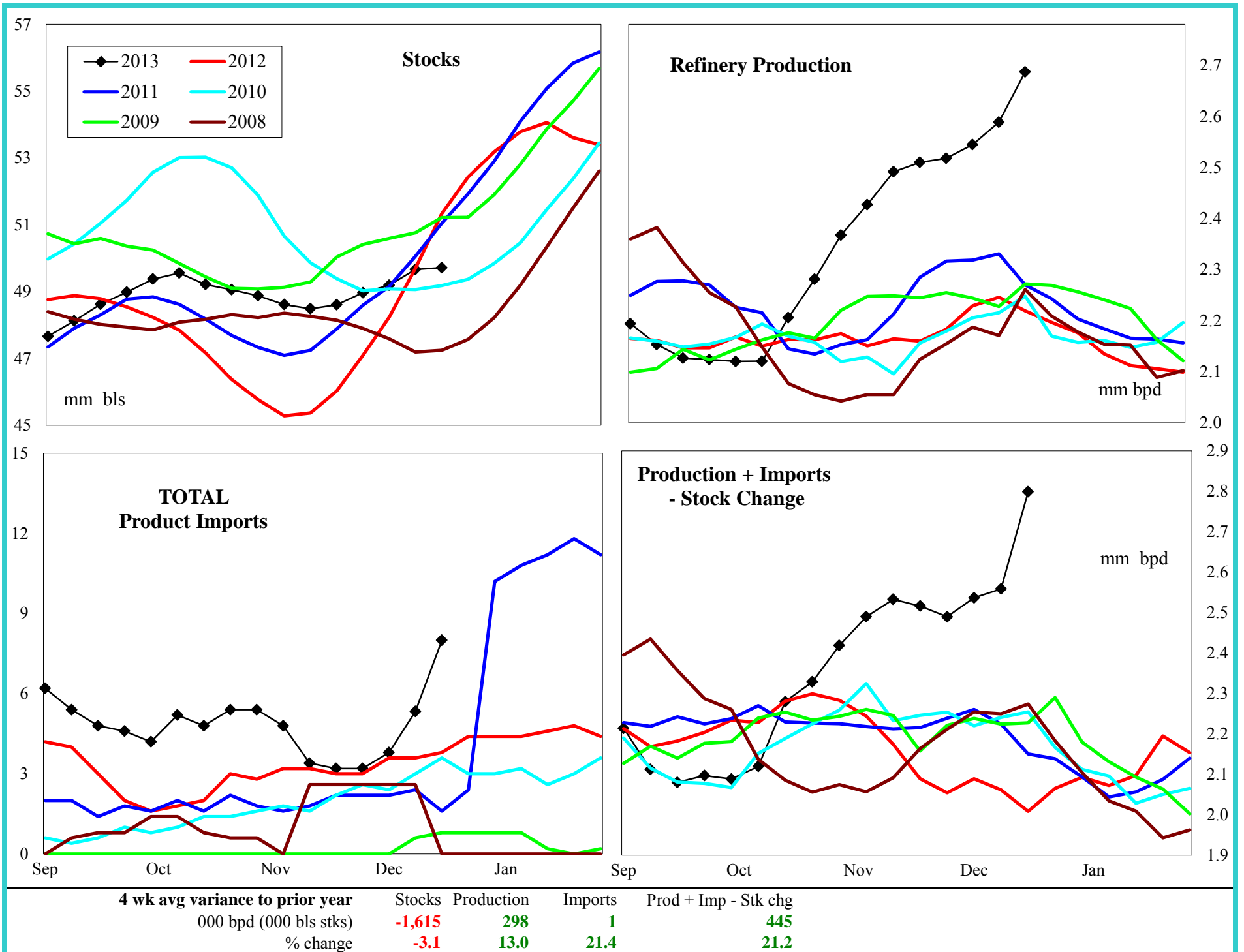
# PADD 1 Residual Fuel Oil Supply



# PADD 2 Crude Oil Supply and Refining

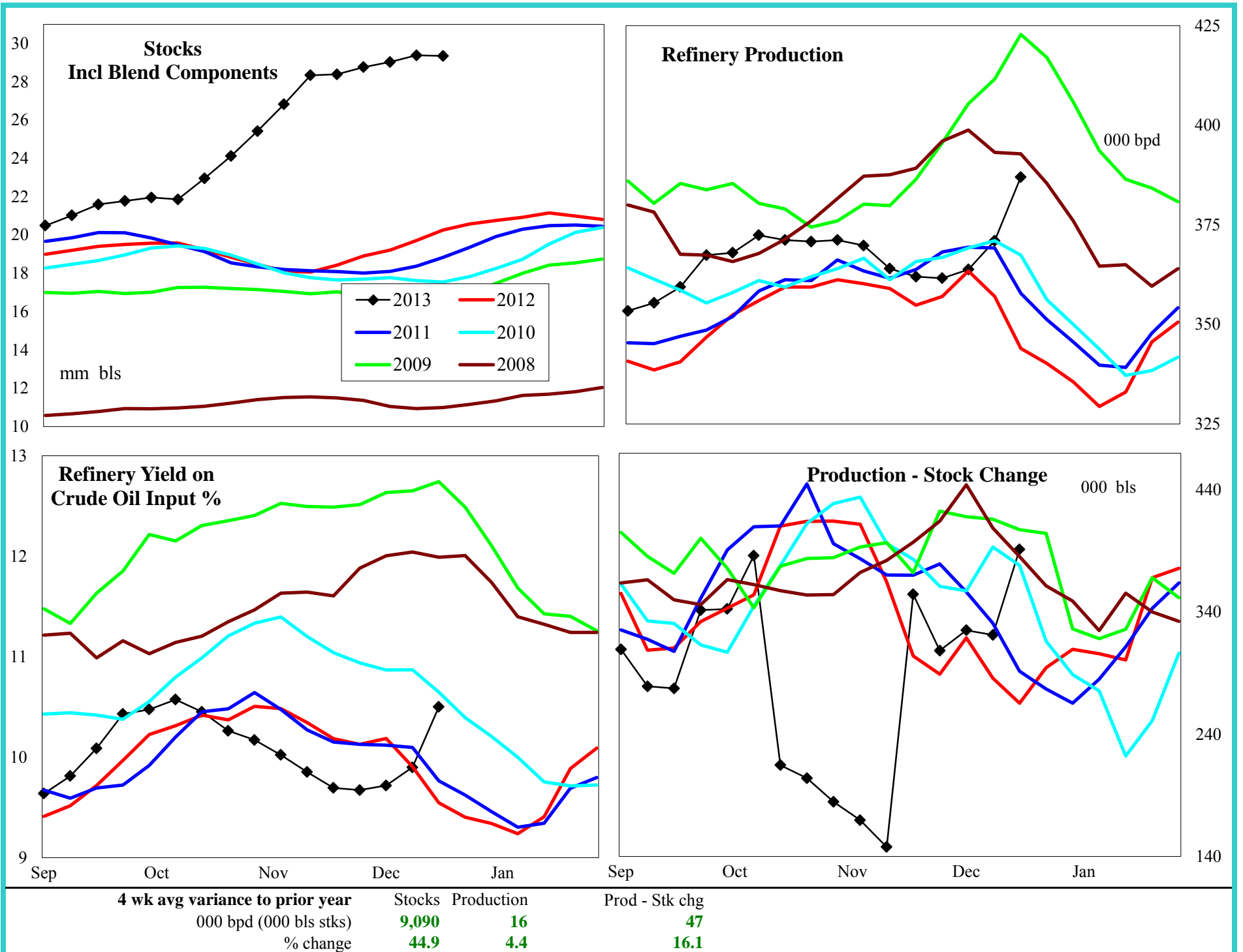


## PADD 2 Gasoline Supply

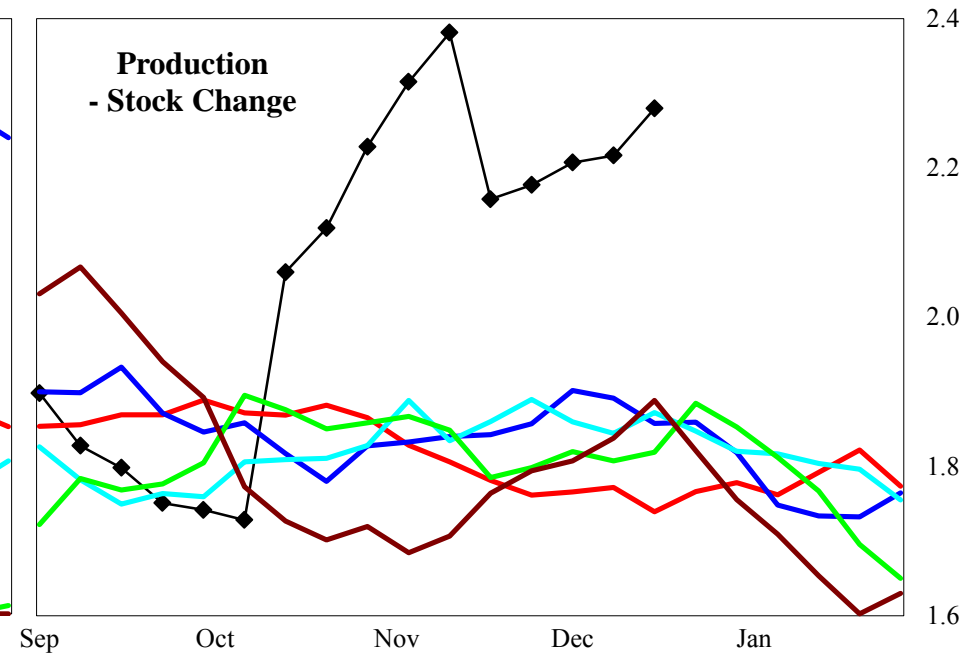
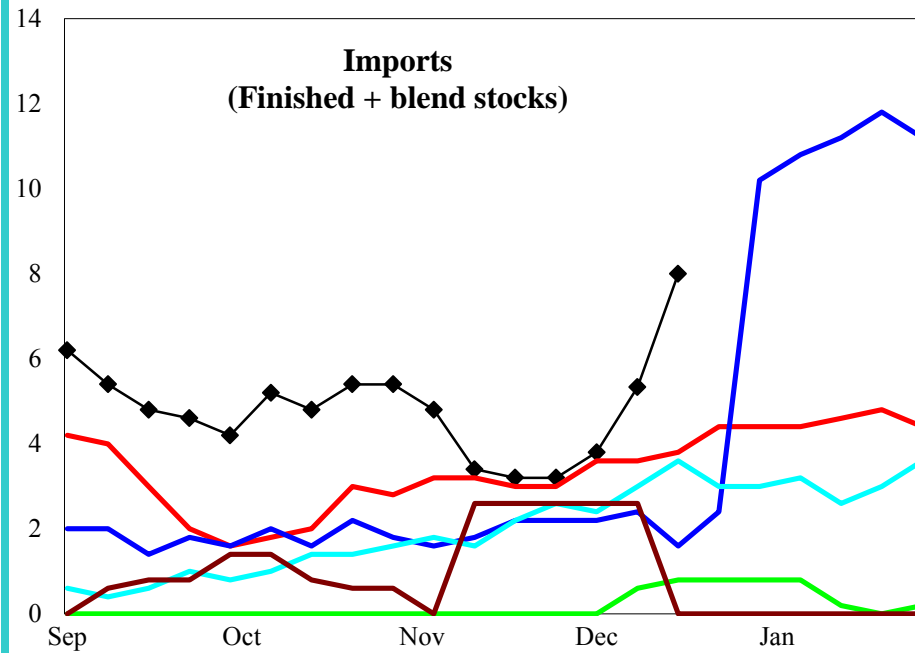
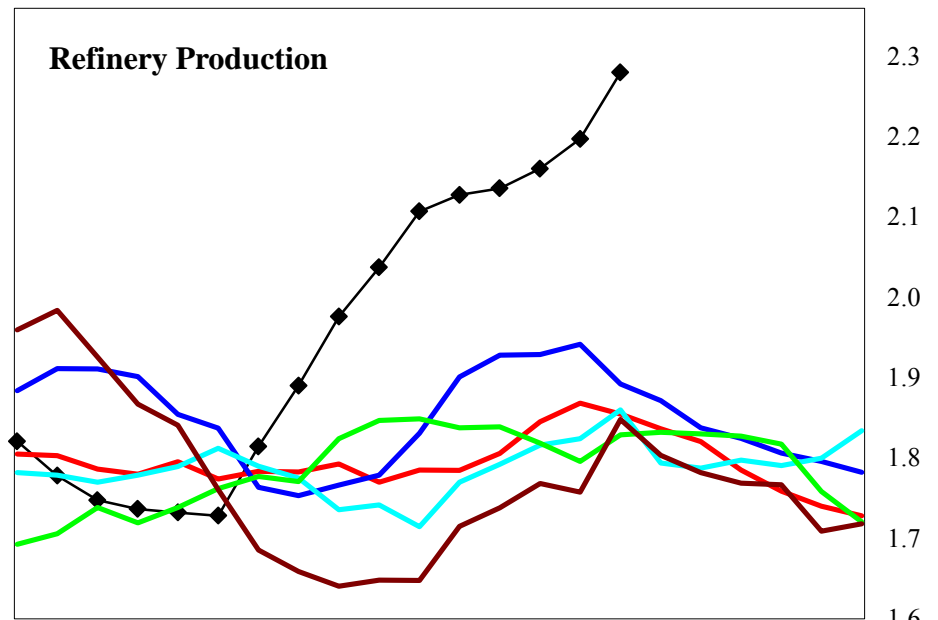
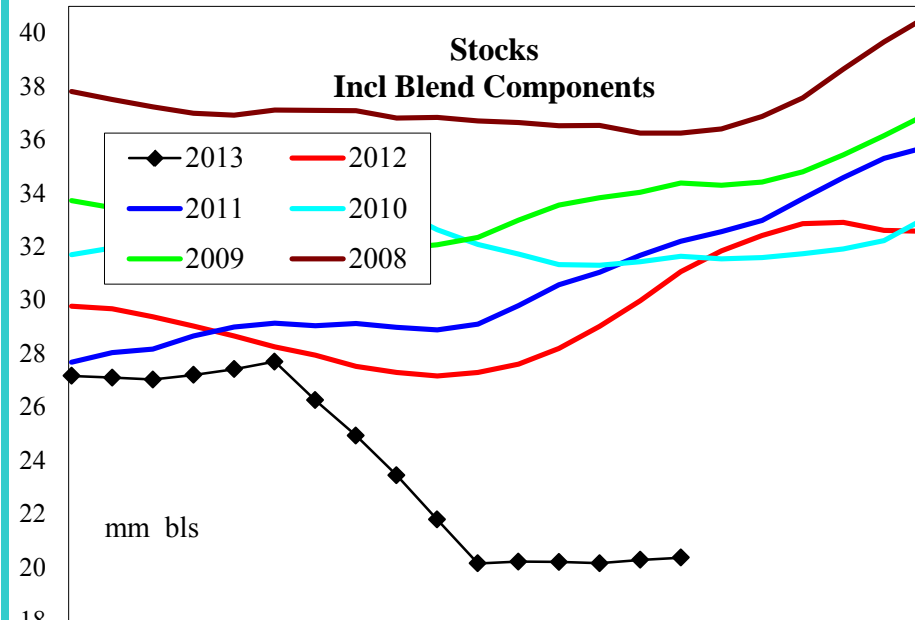




## PADD 2 Reformulated Gasoline Supply



# PADD 2 Conventional Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

**Stocks**

**-10,238**

**-33.5**

**Production**

**297**

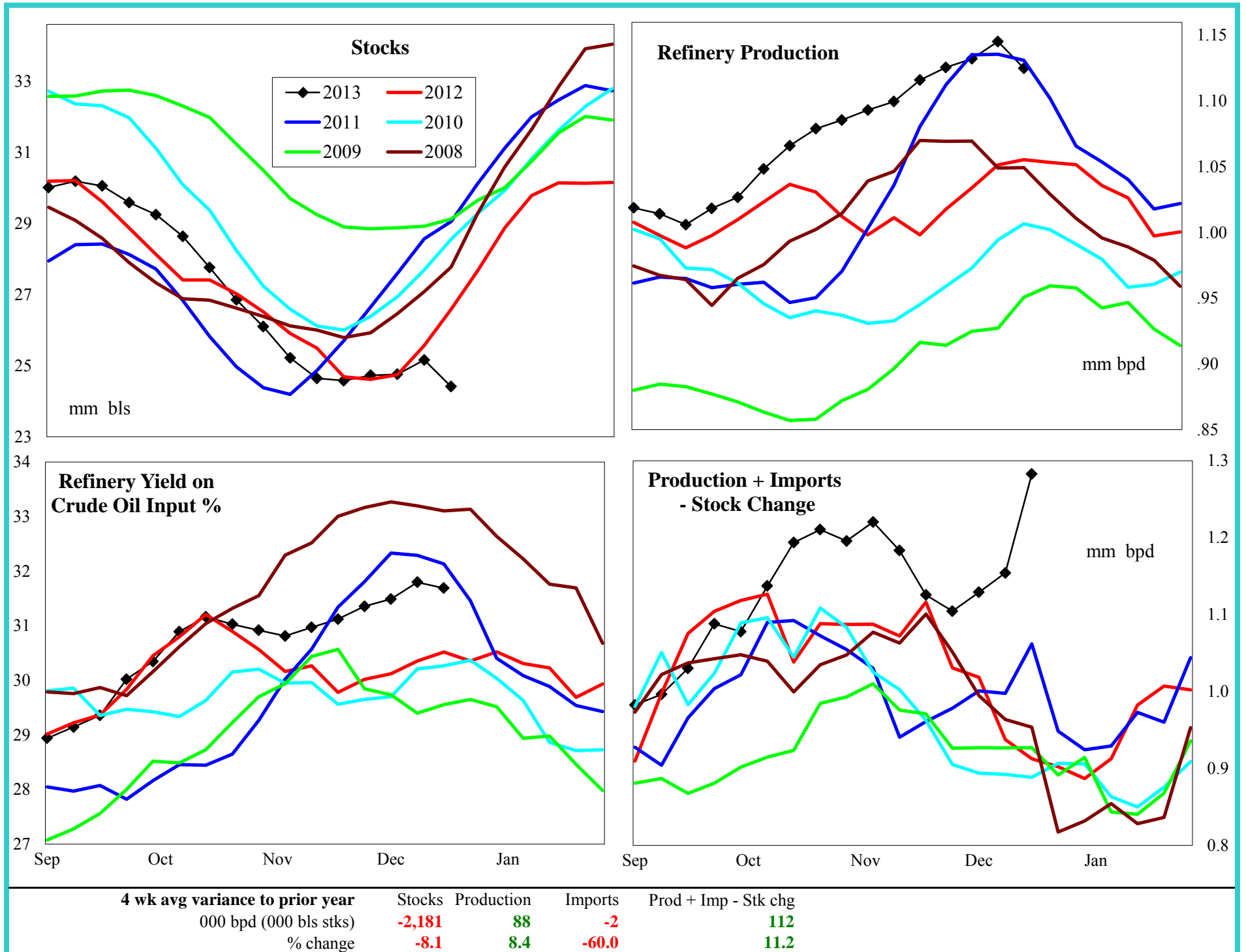
**15.5**

**Prod - Stk chg**

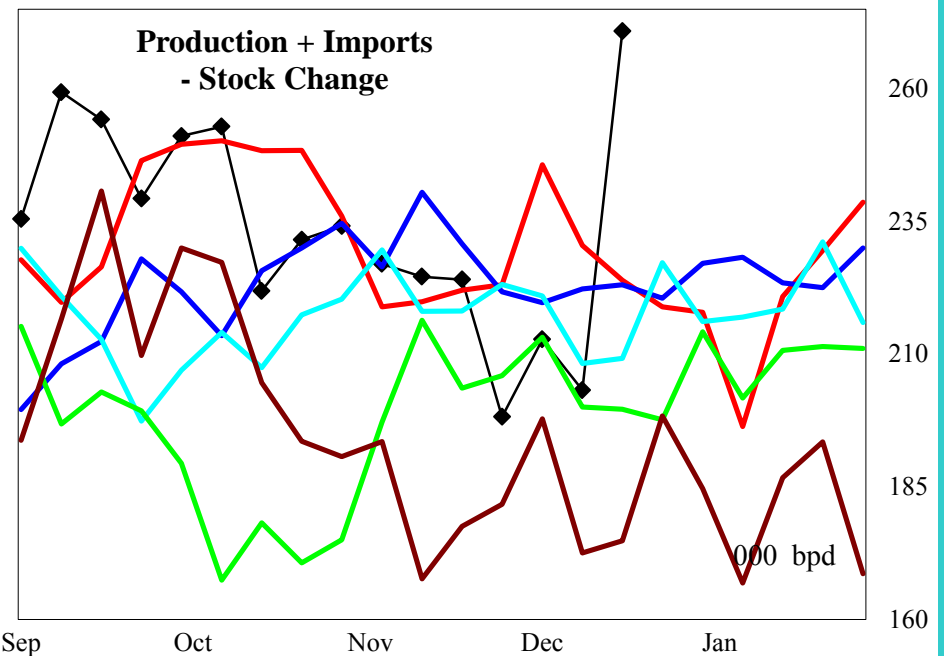
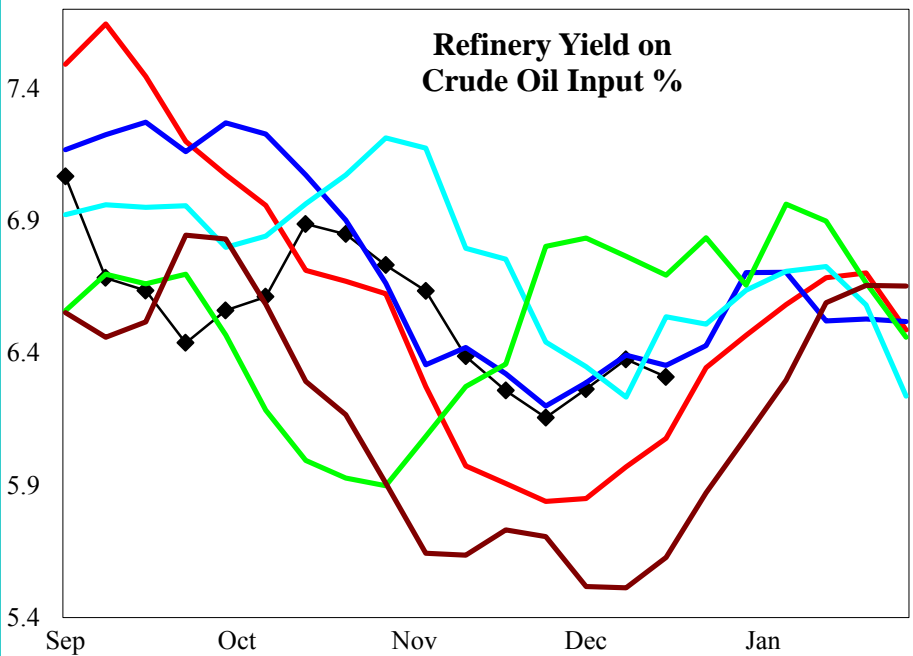
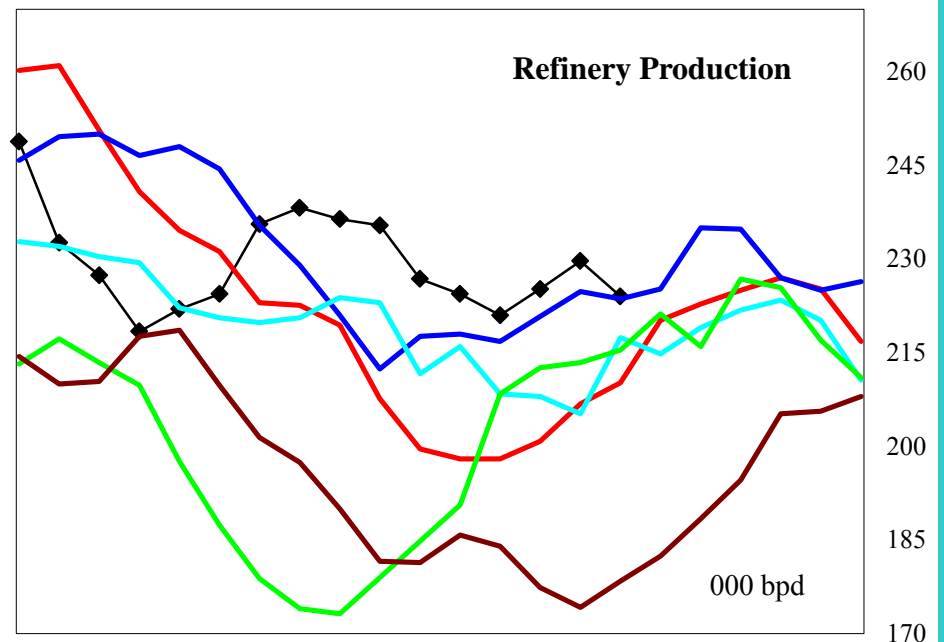
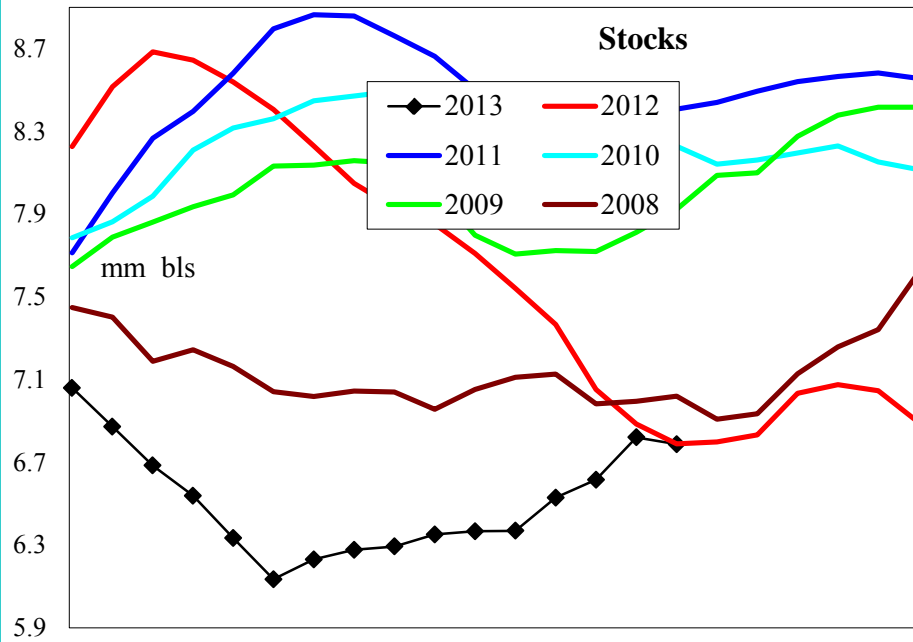
**399**

**22.1**

# PADD 2 Distillate Supply



## PADD 2 Jet Fuel Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

-2

18

0

-50

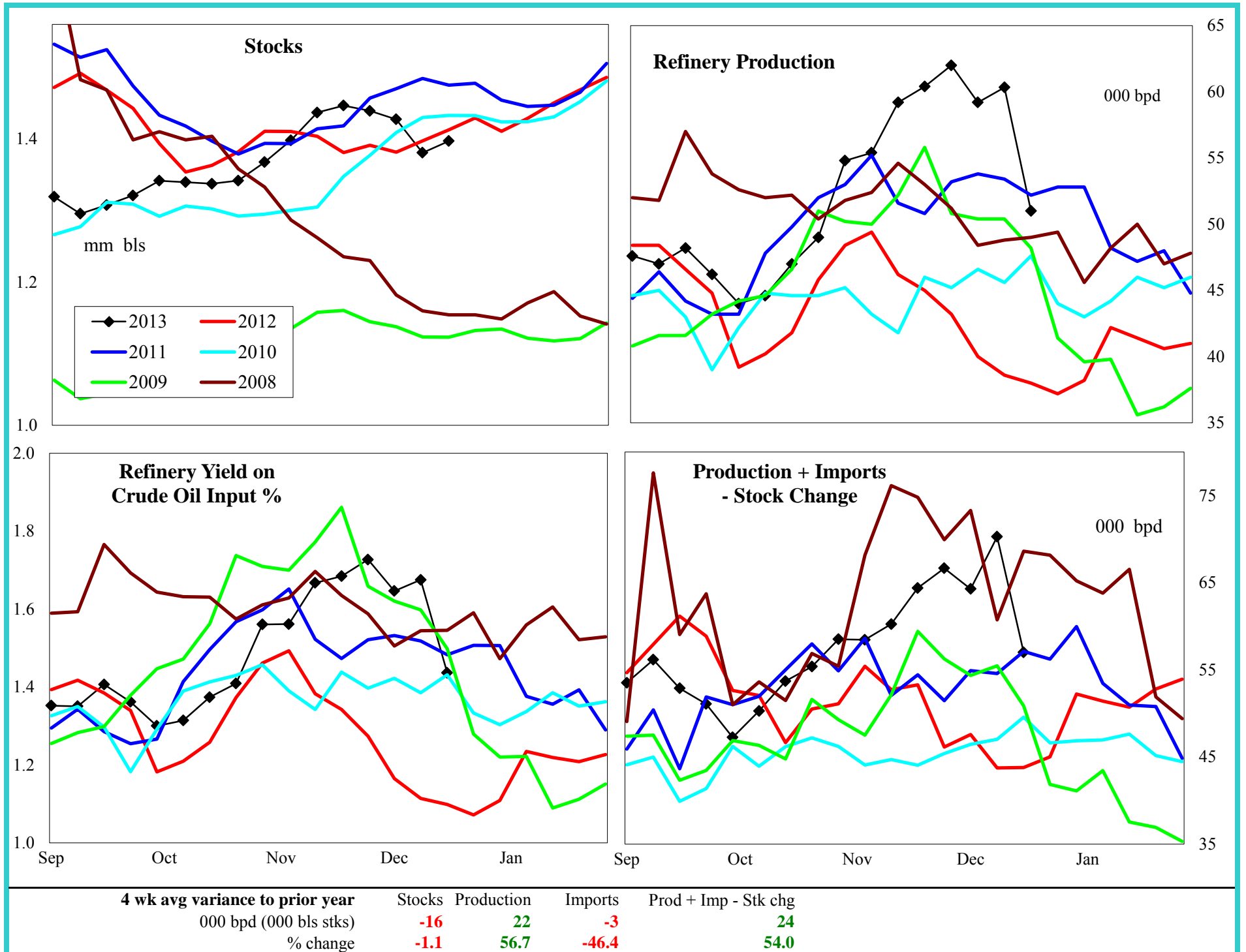
0.0

8.5

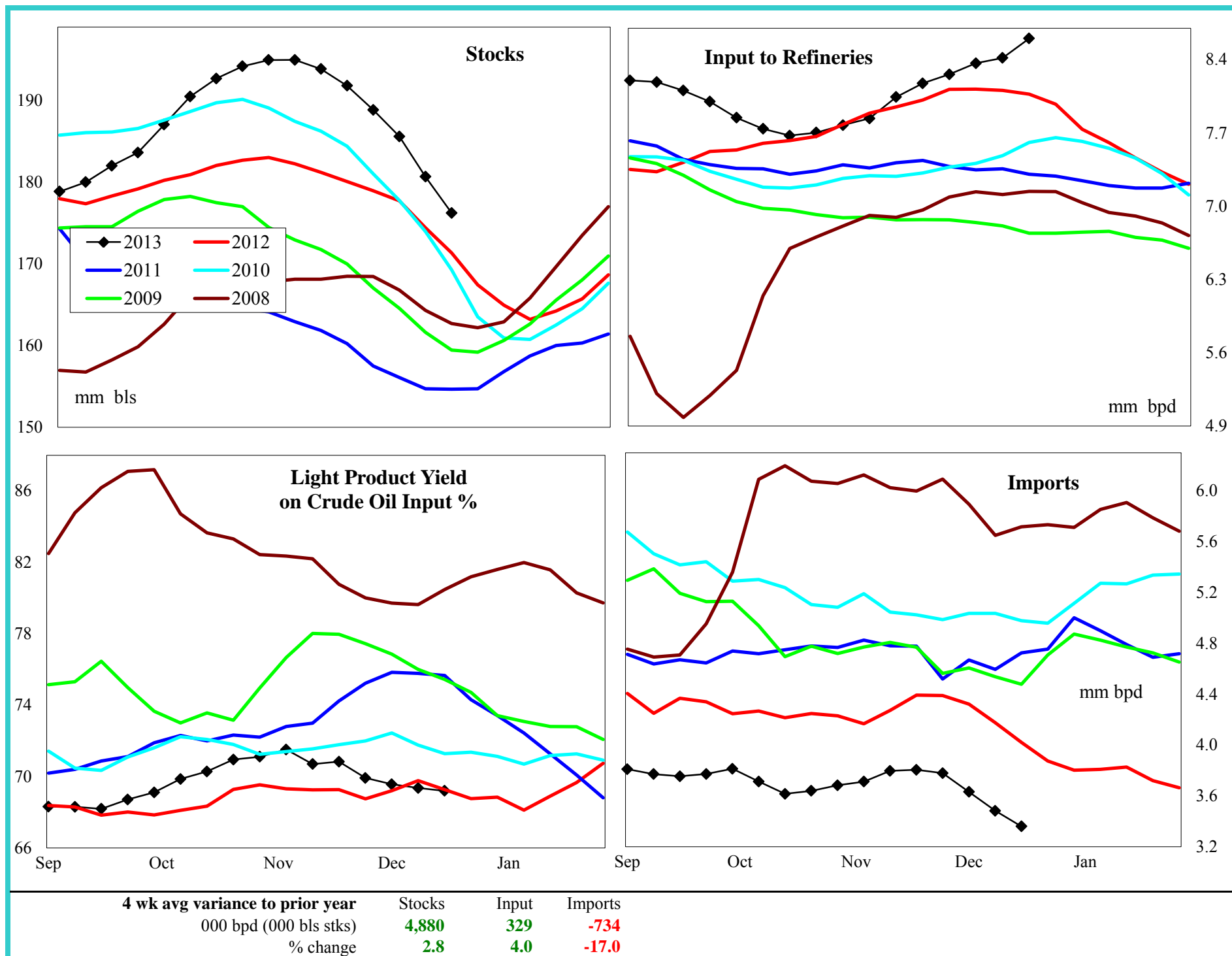
#DIV/0!

-19.2

# PADD 2 Residual Fuel Oil Supply

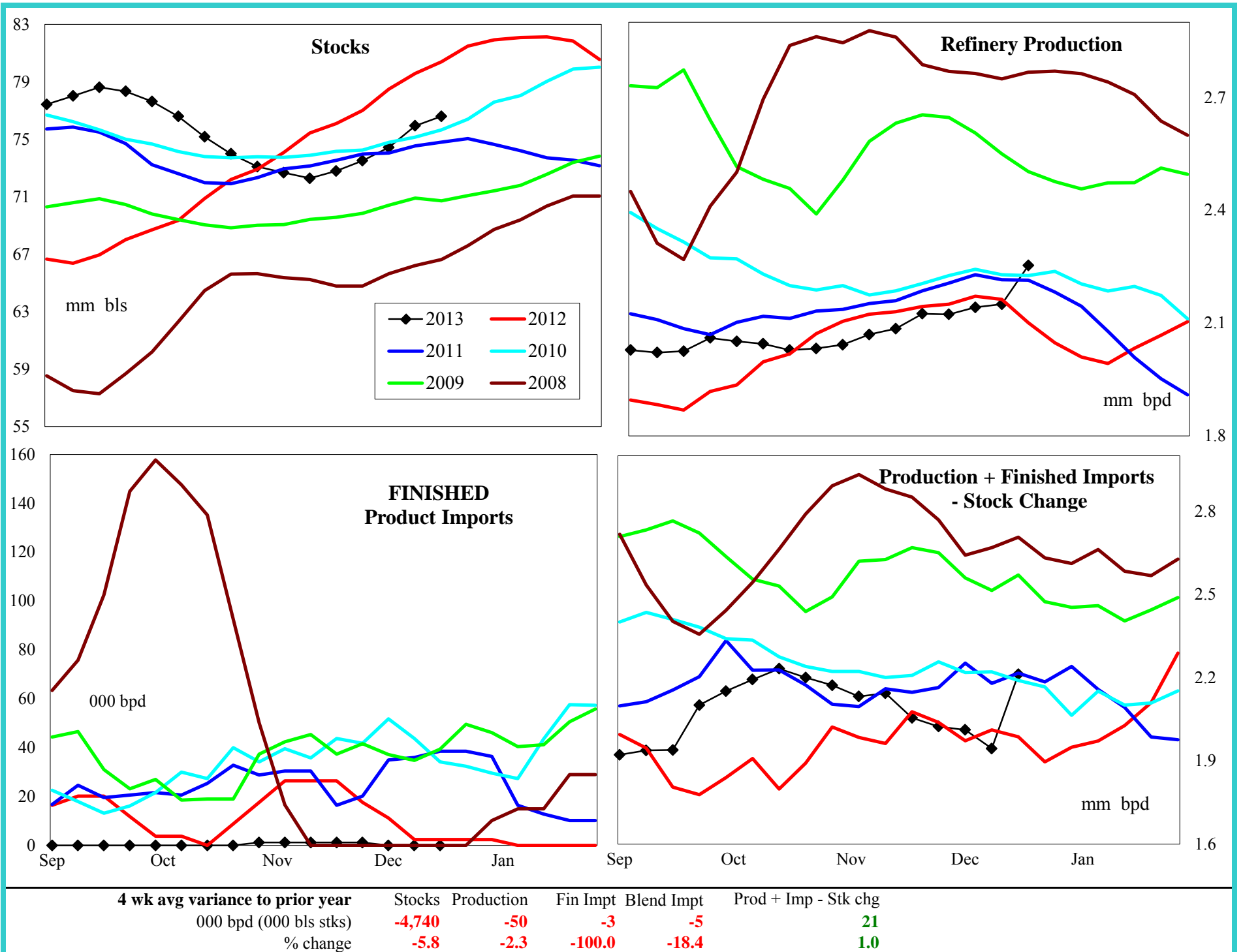


# PADD 3 Crude Oil Supply and Refining

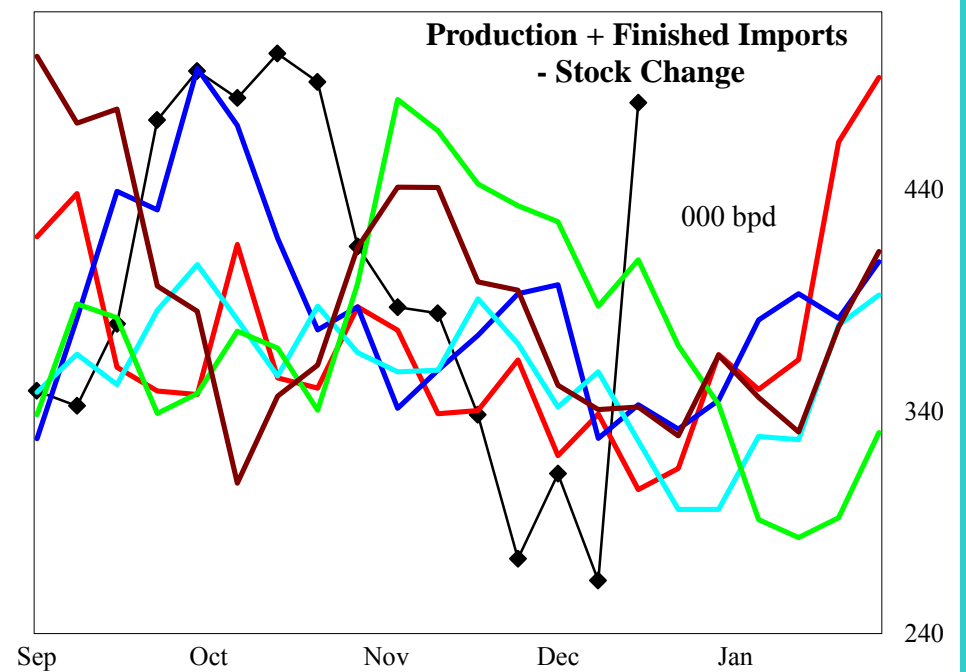
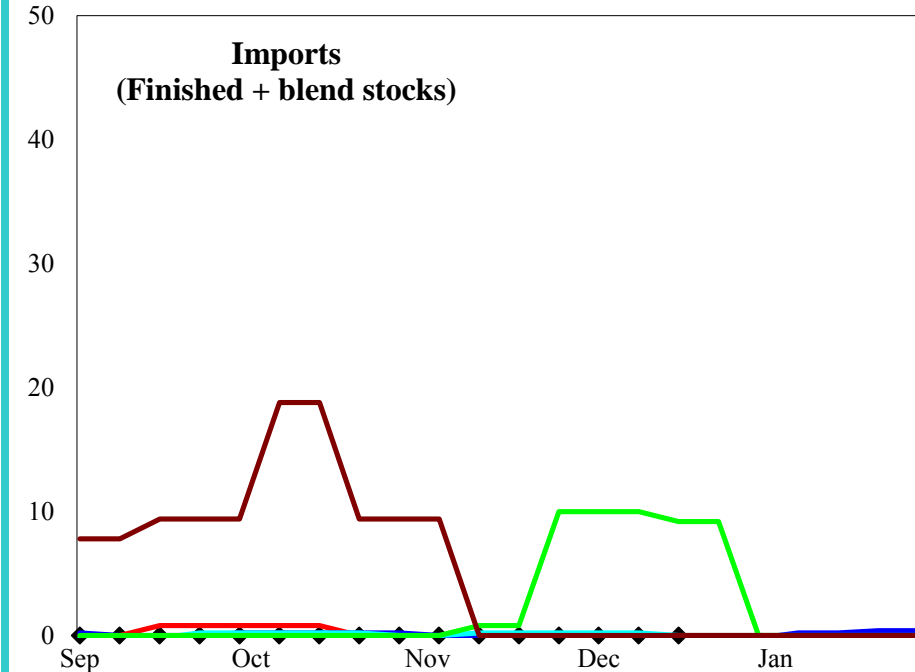
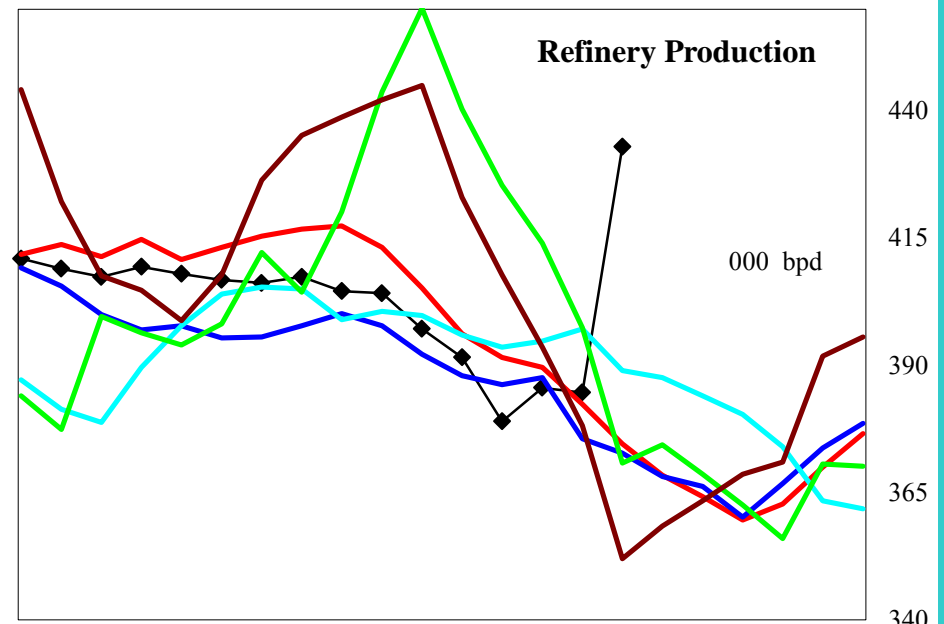
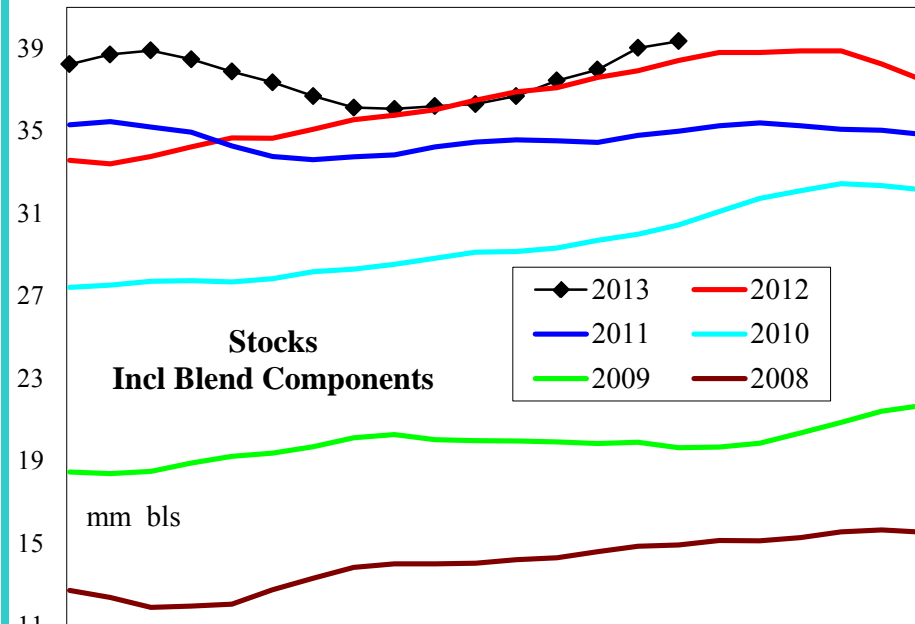




## PADD 3 Gasoline Supply



# PADD 3 Reformulated Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

1,051

-7

0

-40

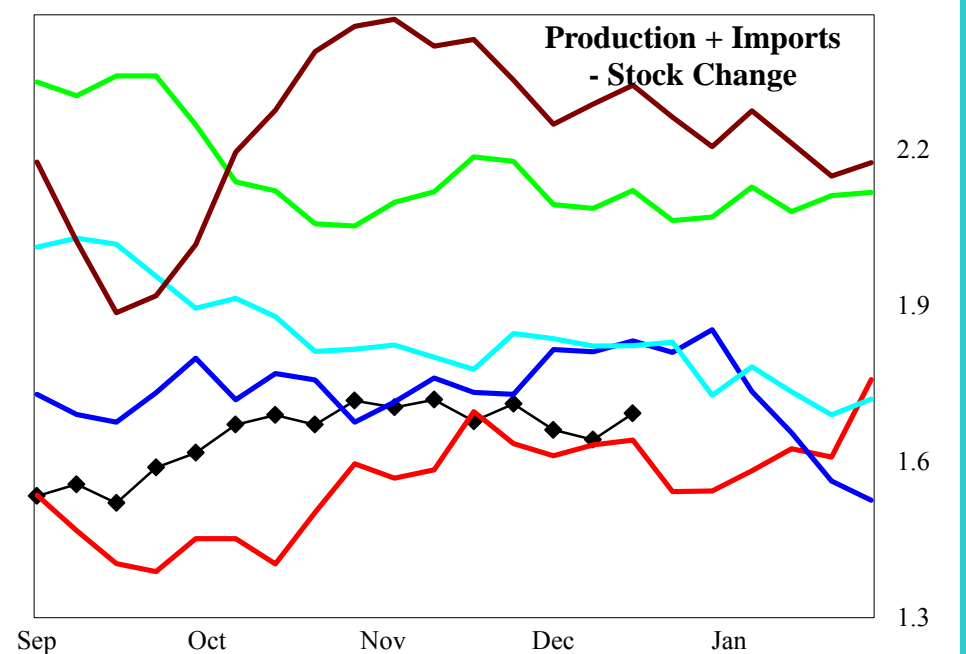
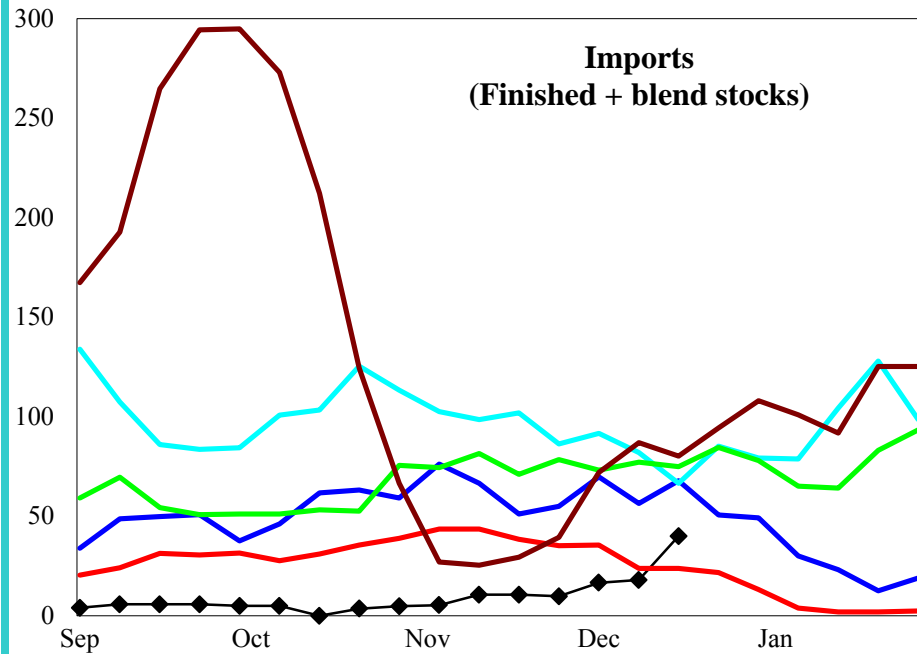
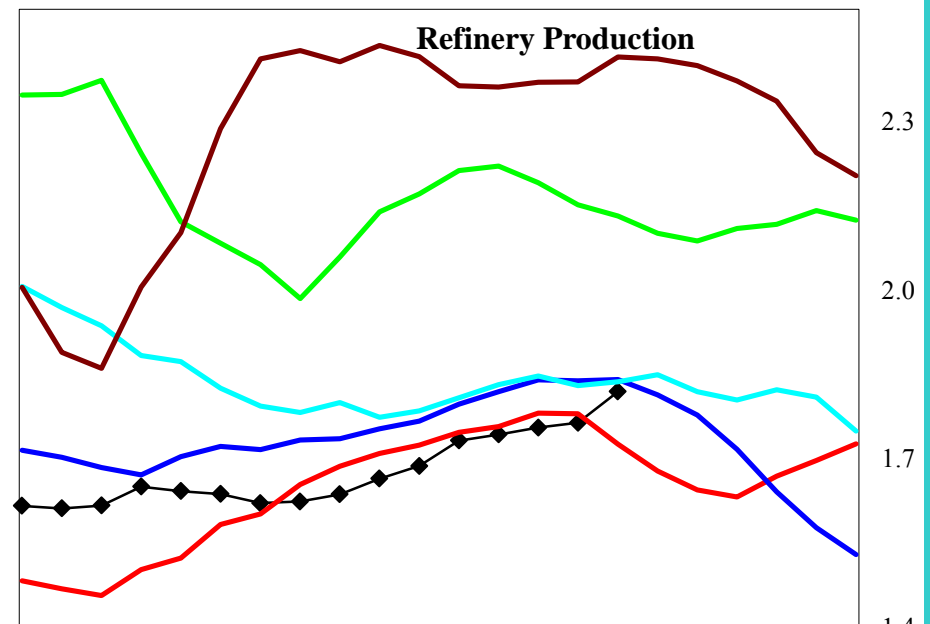
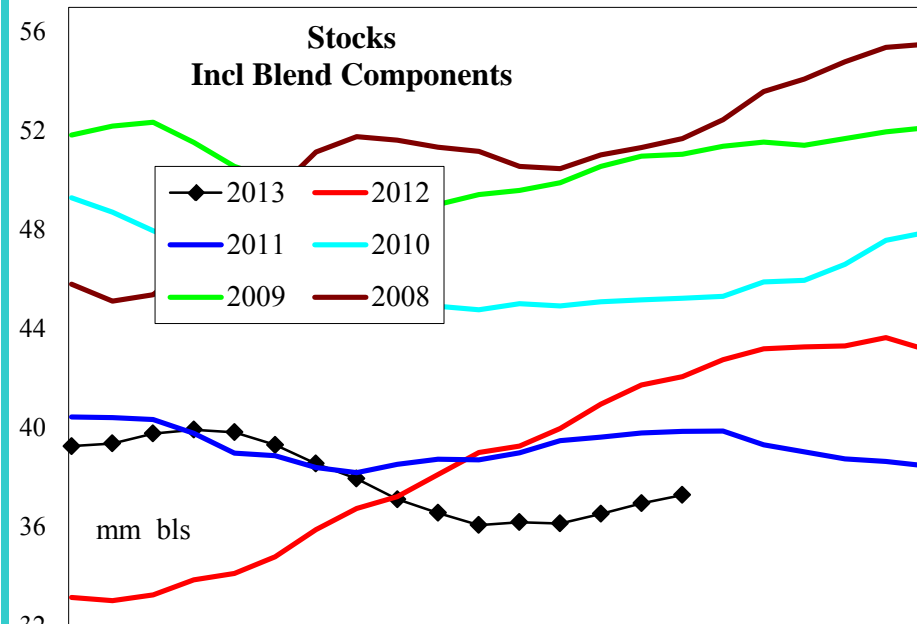
2.7

-1.8

#DIV/0!

-13.0

# PADD 3 Conventional Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

-5,827

-43

-8

62

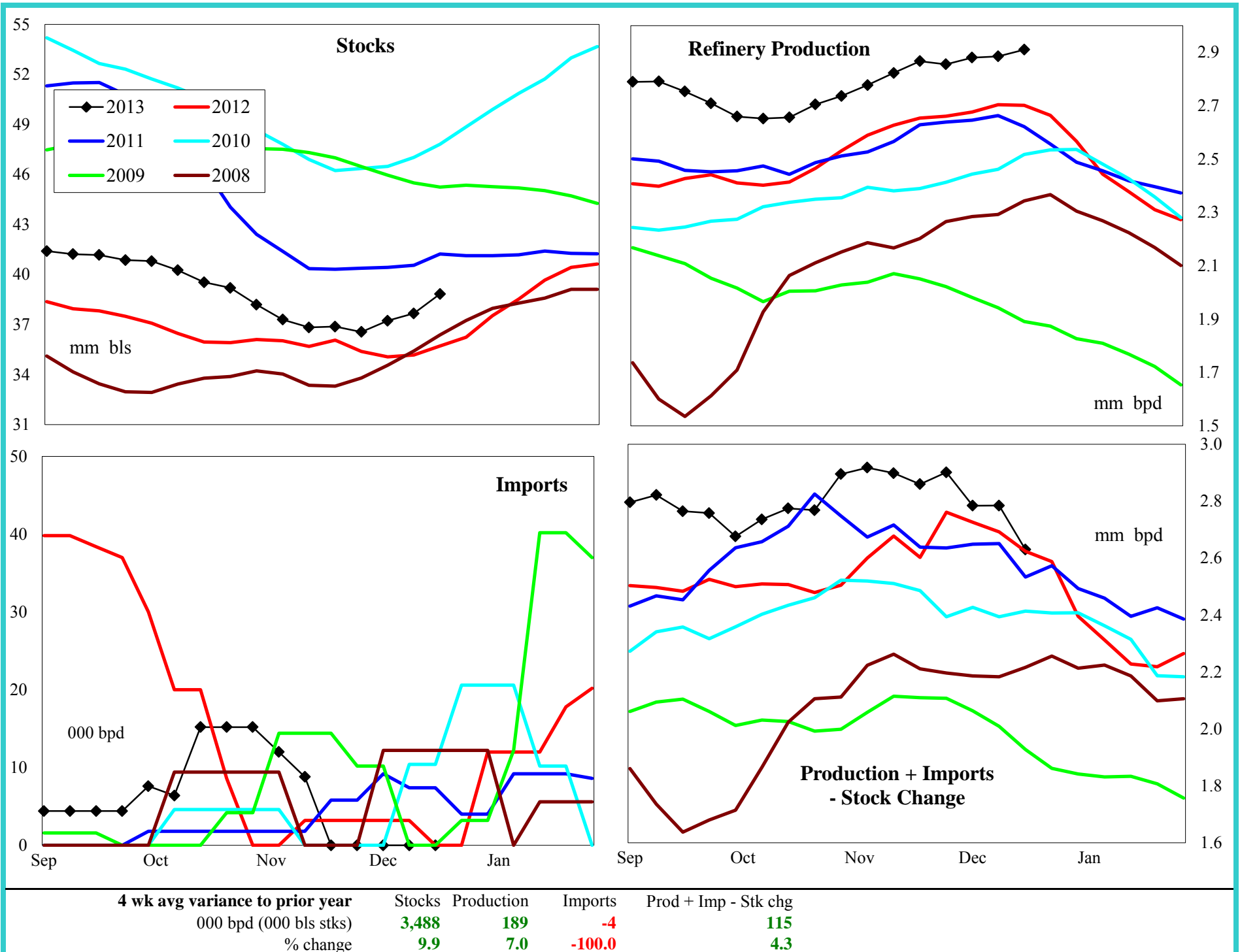
-13.5

-2.4

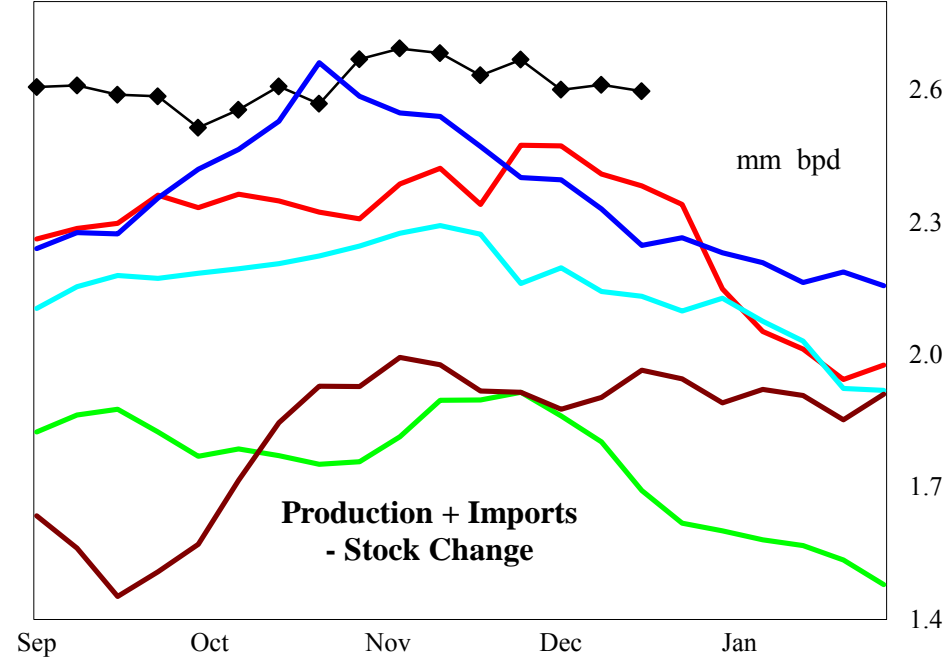
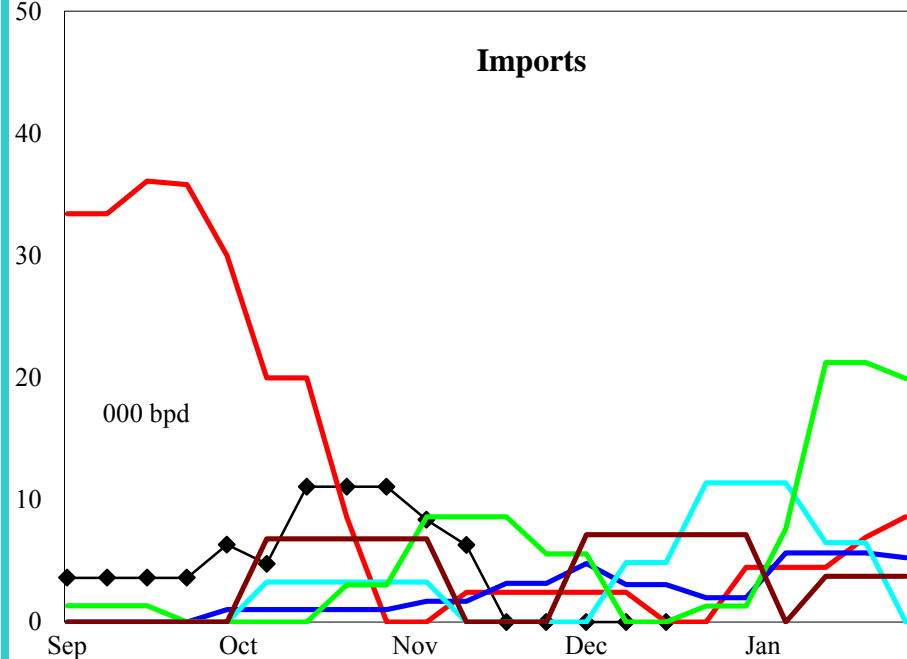
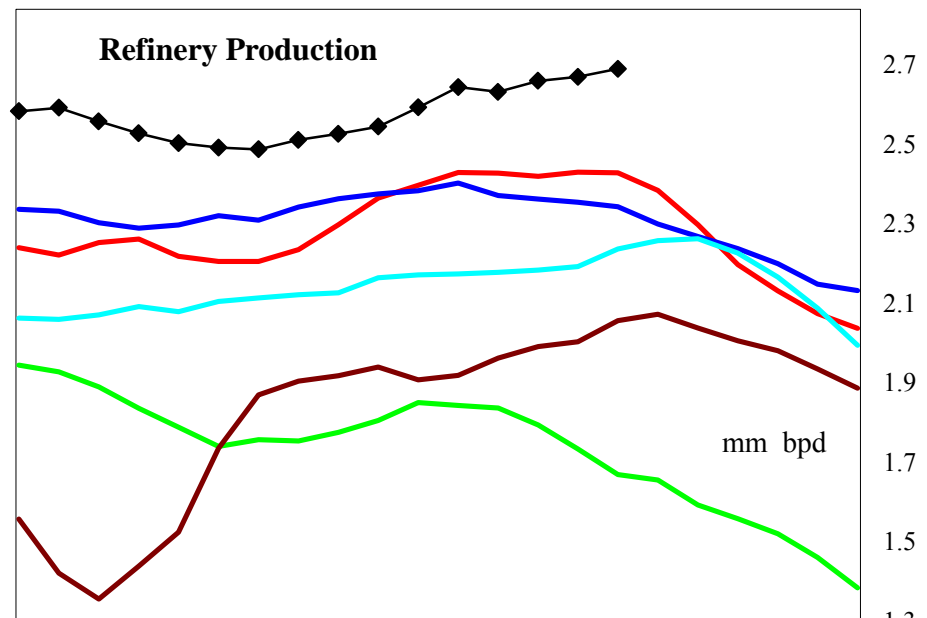
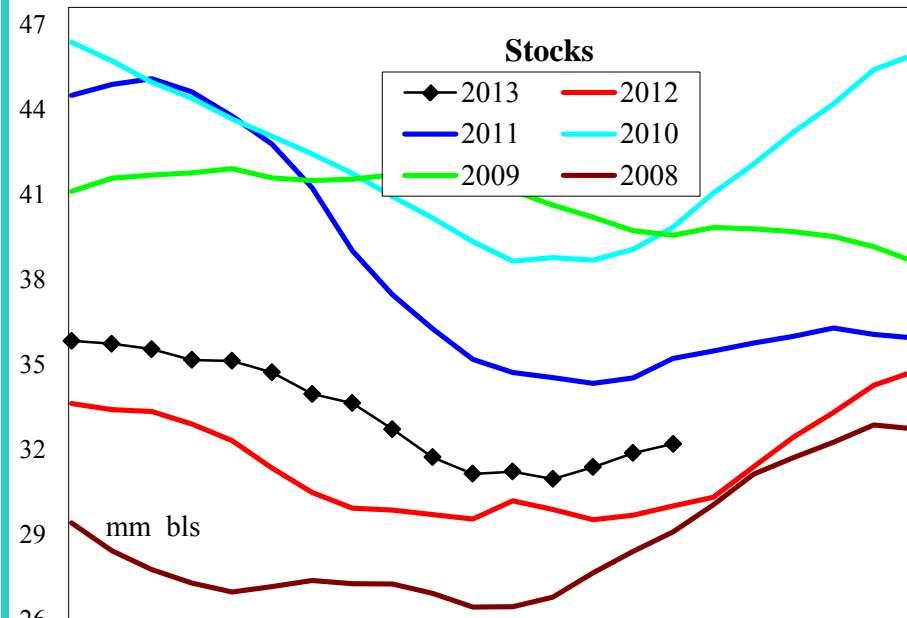
-27.3

3.7

# PADD 3 Distillate Supply



# PADD 3 Low Sulfur Distillate Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

3,286

11.2

Production

254

10.5

Imports

-3

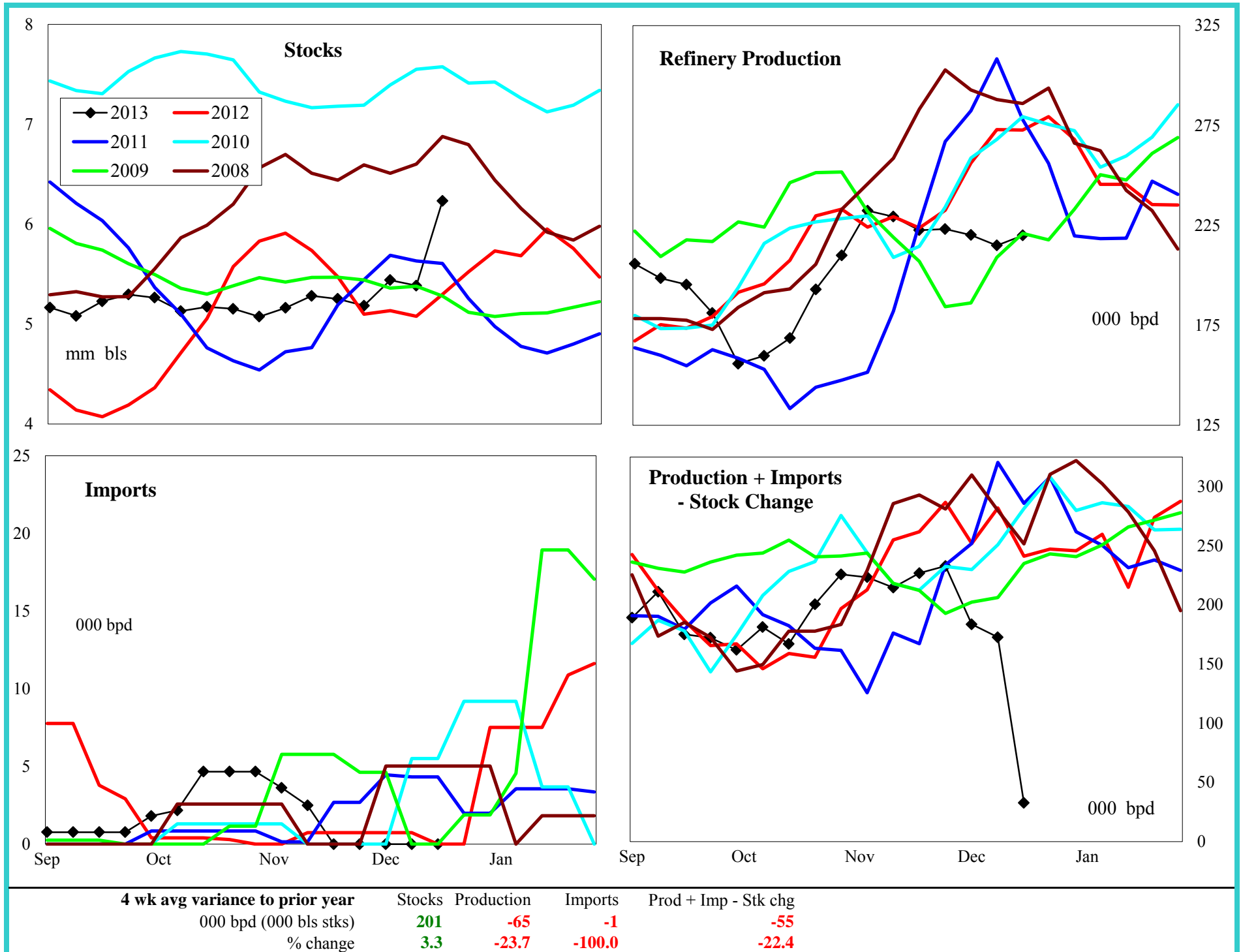
-100.0

Prod + Imp - Stk chg

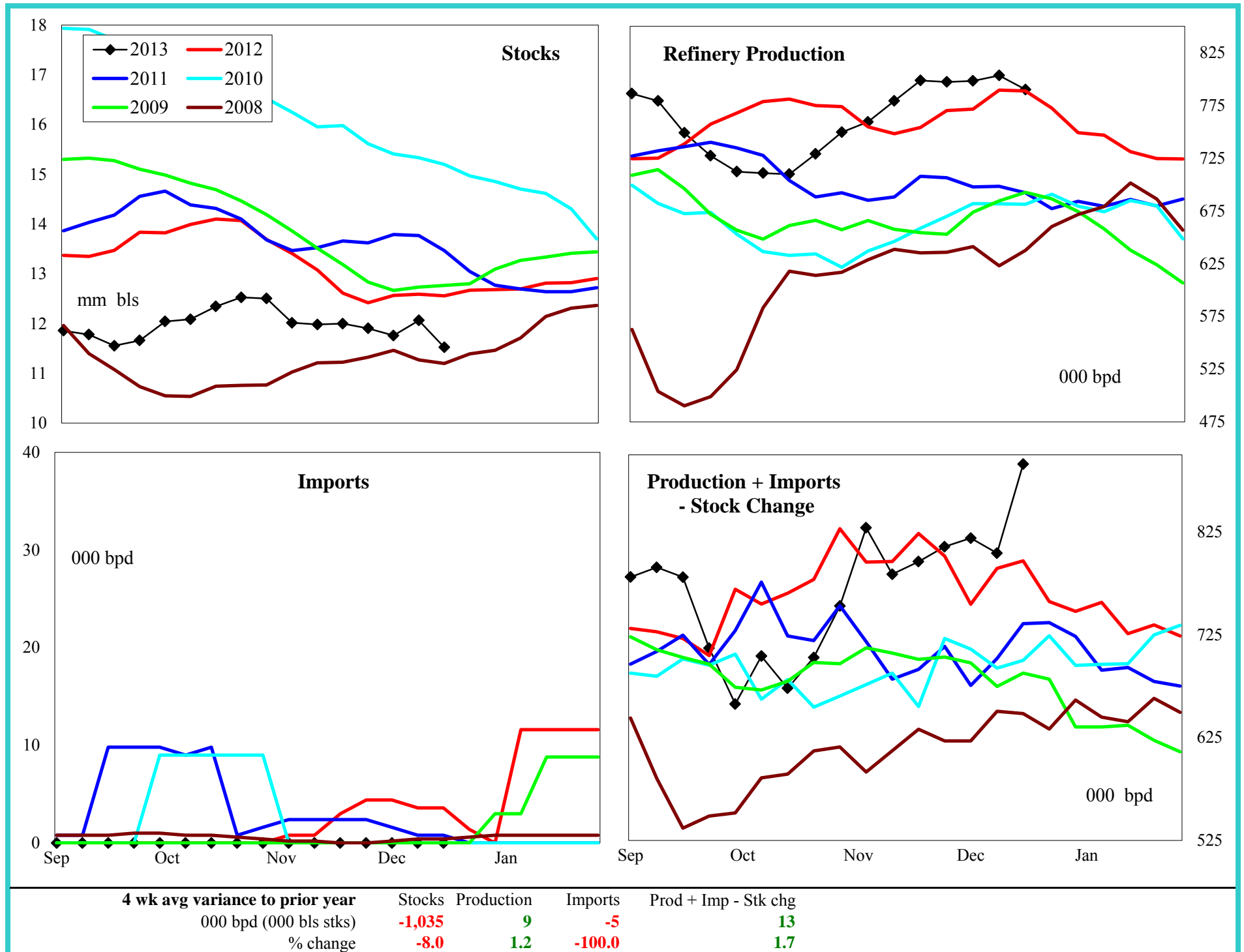
170

7.0

# PADD 3 High Sulfur Distillate Supply

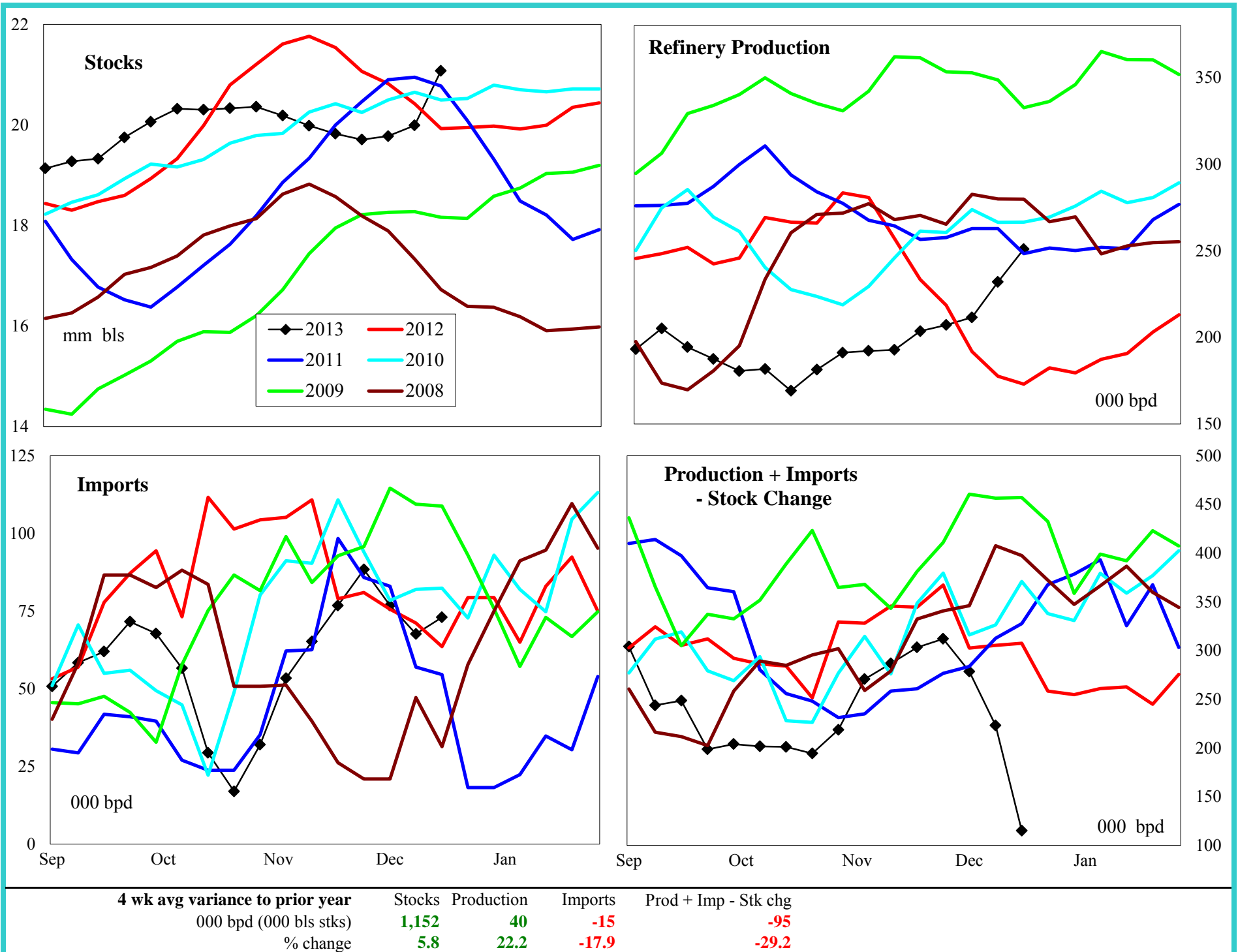


## PADD 3 Jet Fuel Supply

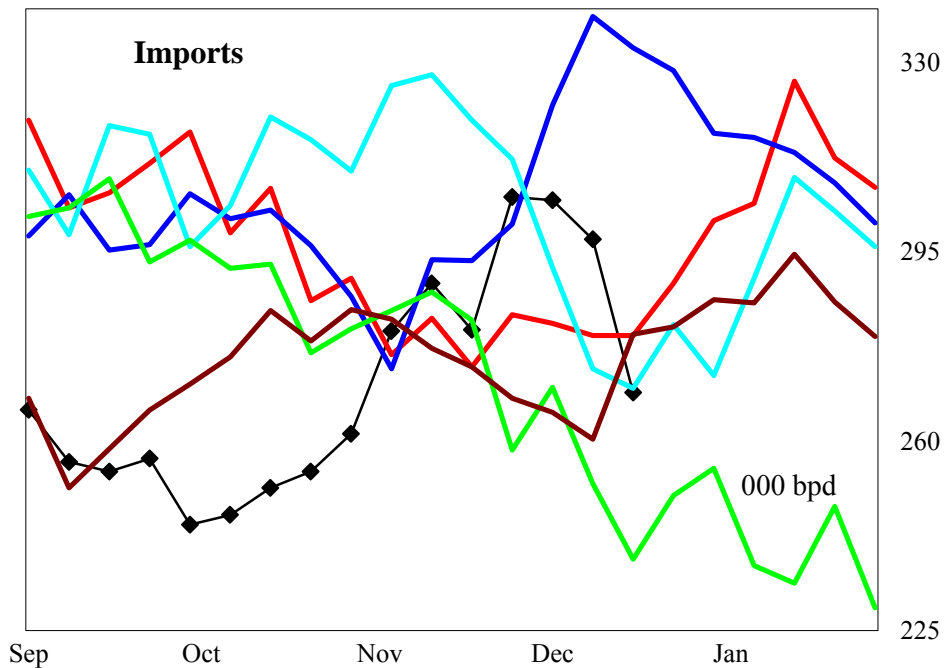
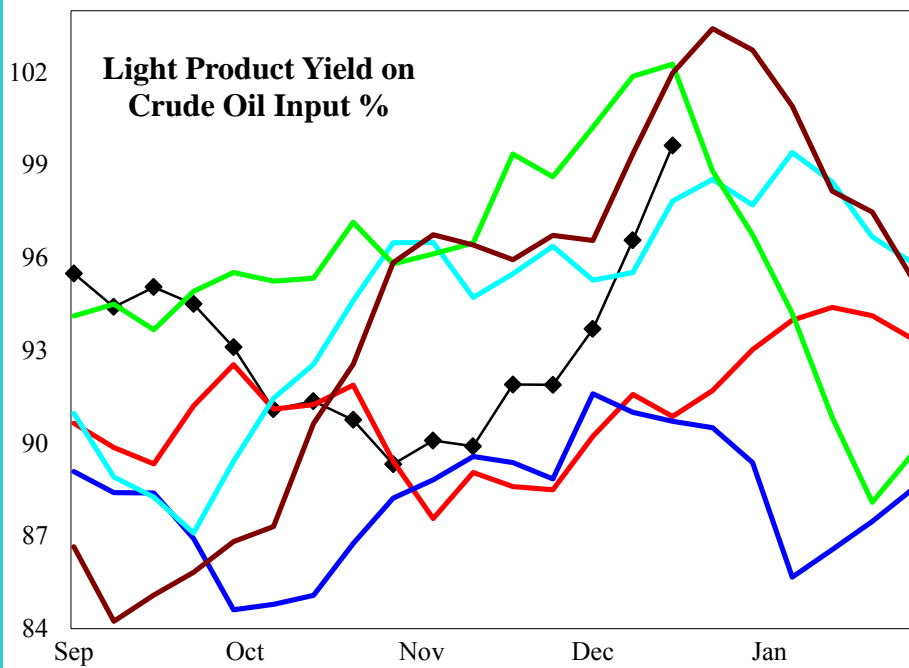
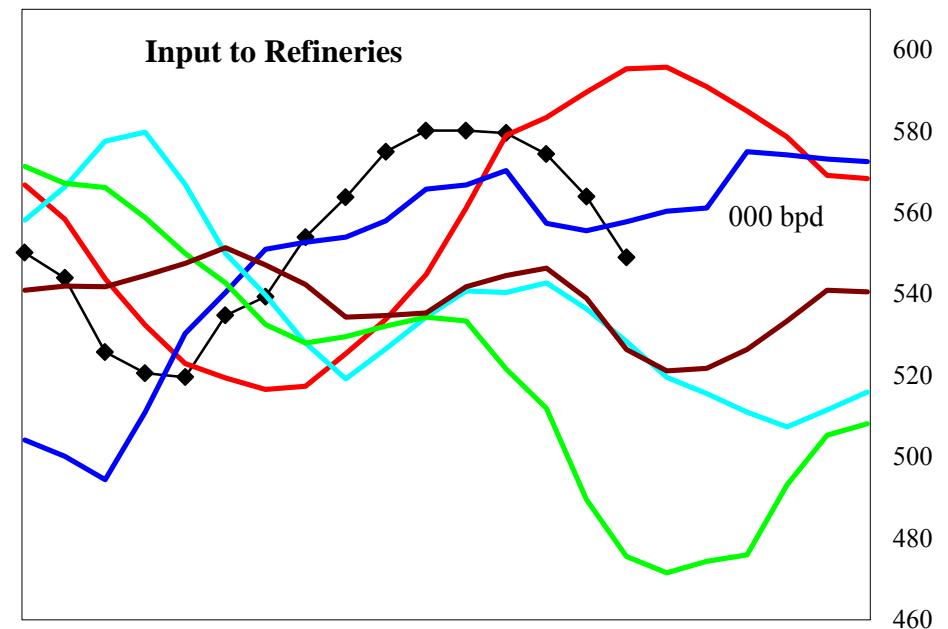
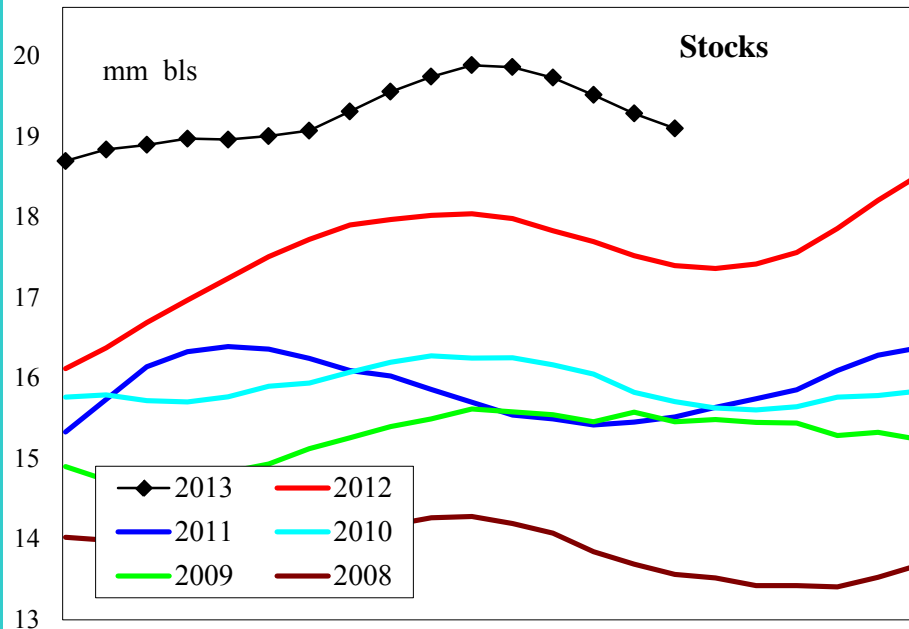




# PADD 3 Residual Fuel Oil Supply



# PADD 4 Crude Oil Supply and Refining



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

**1,701**

**9.6**

Input

**-16**

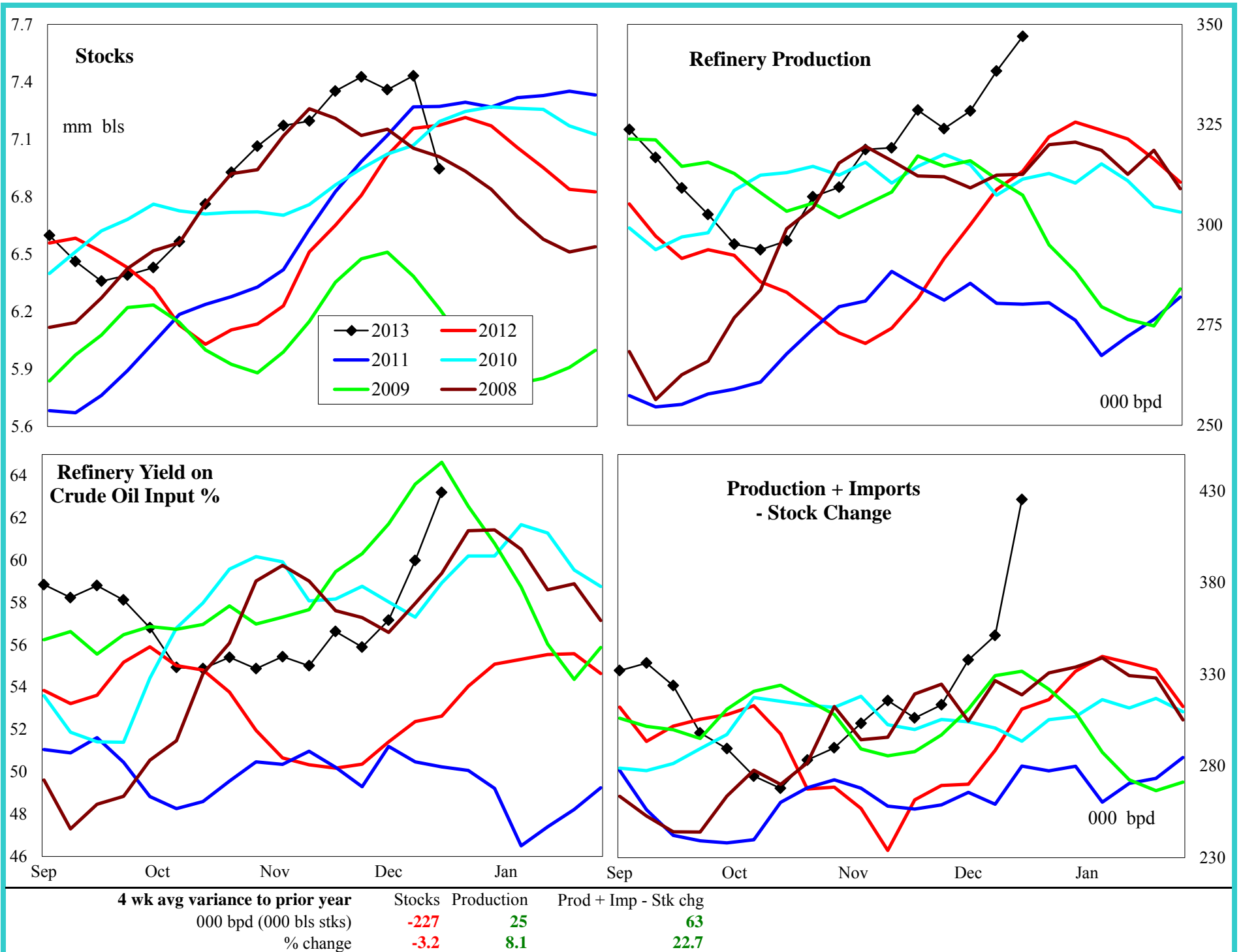
**-2.6**

Imports

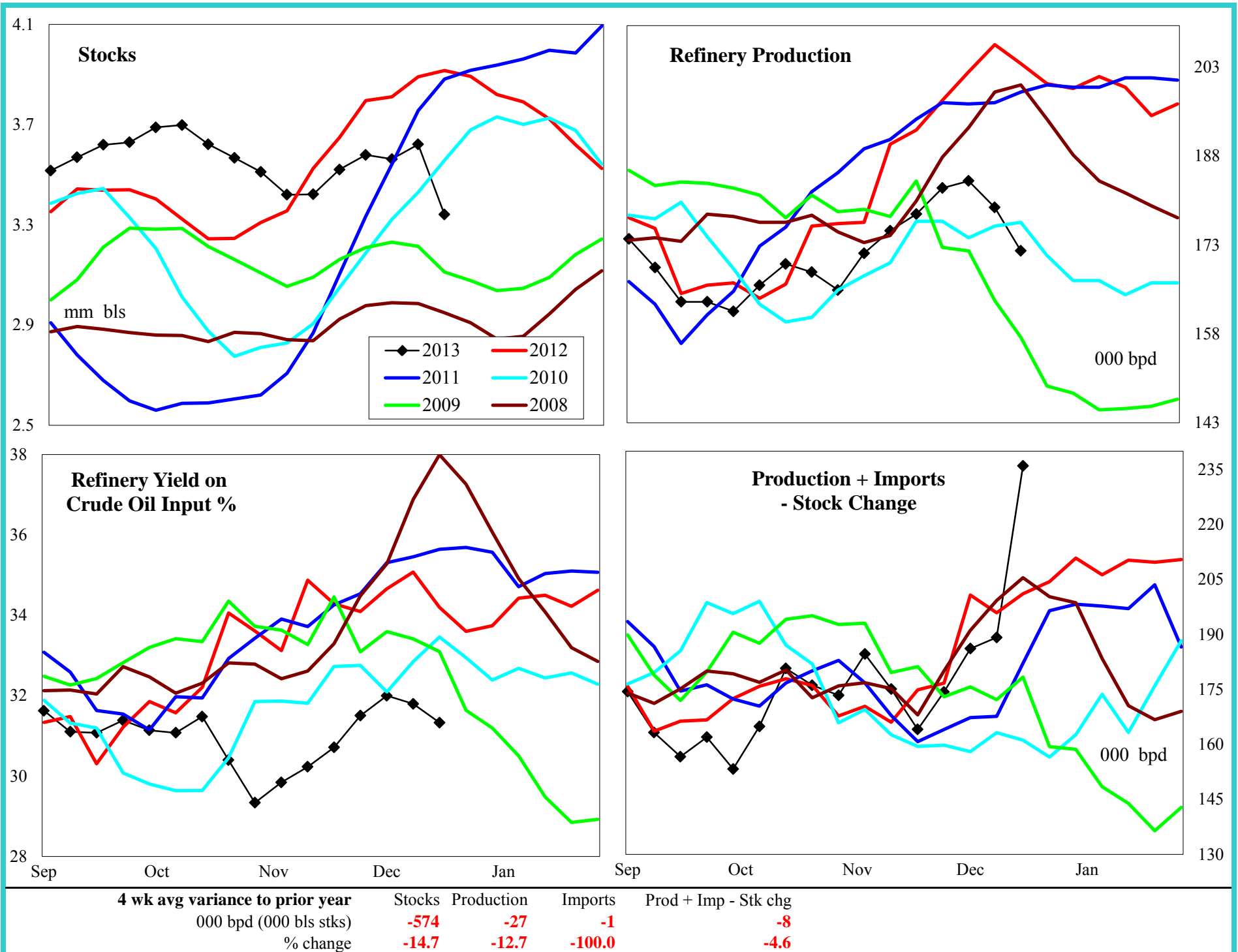
**8**

**2.7**

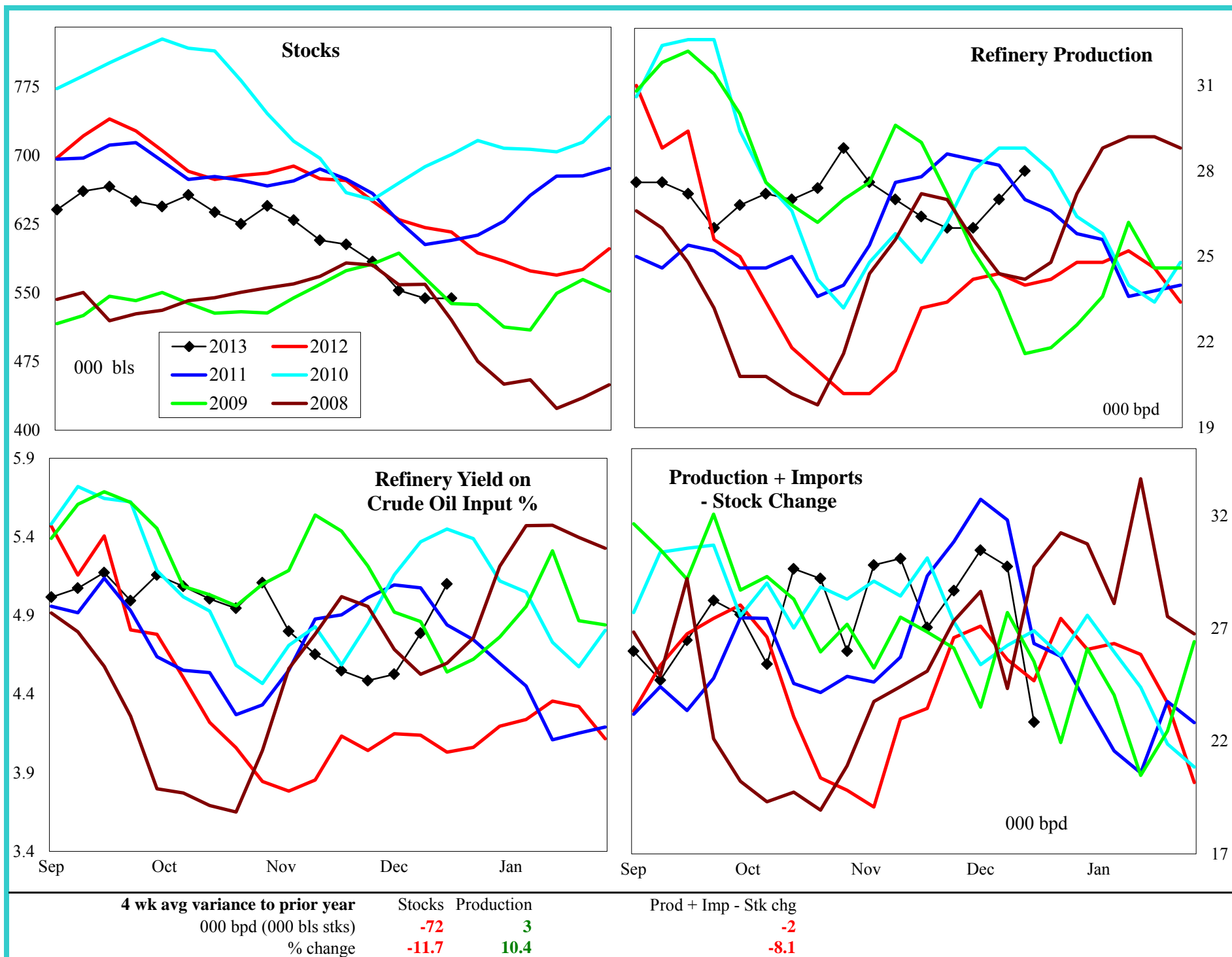
## PADD 4 Gasoline Supply



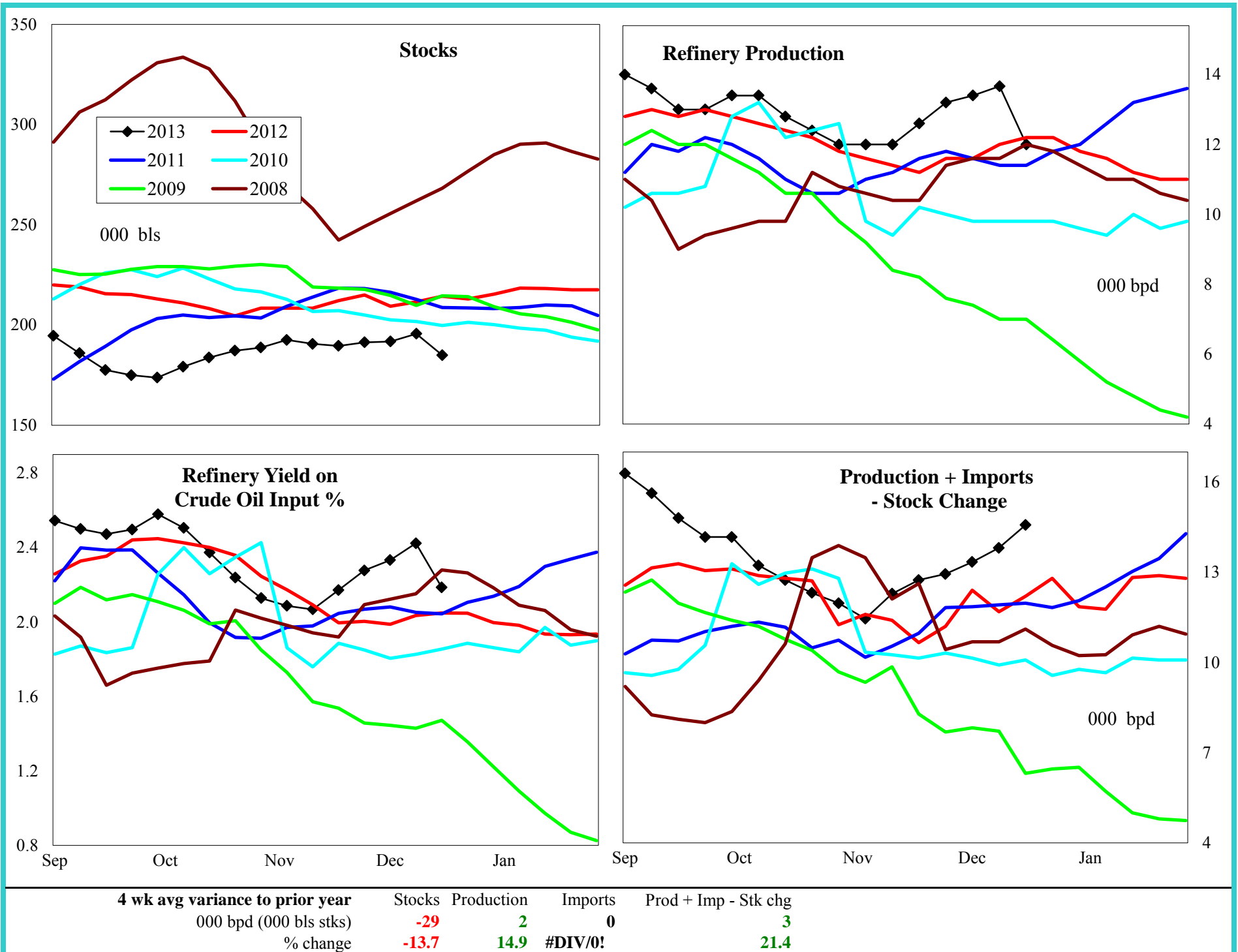
# PADD 4 Distillate Supply



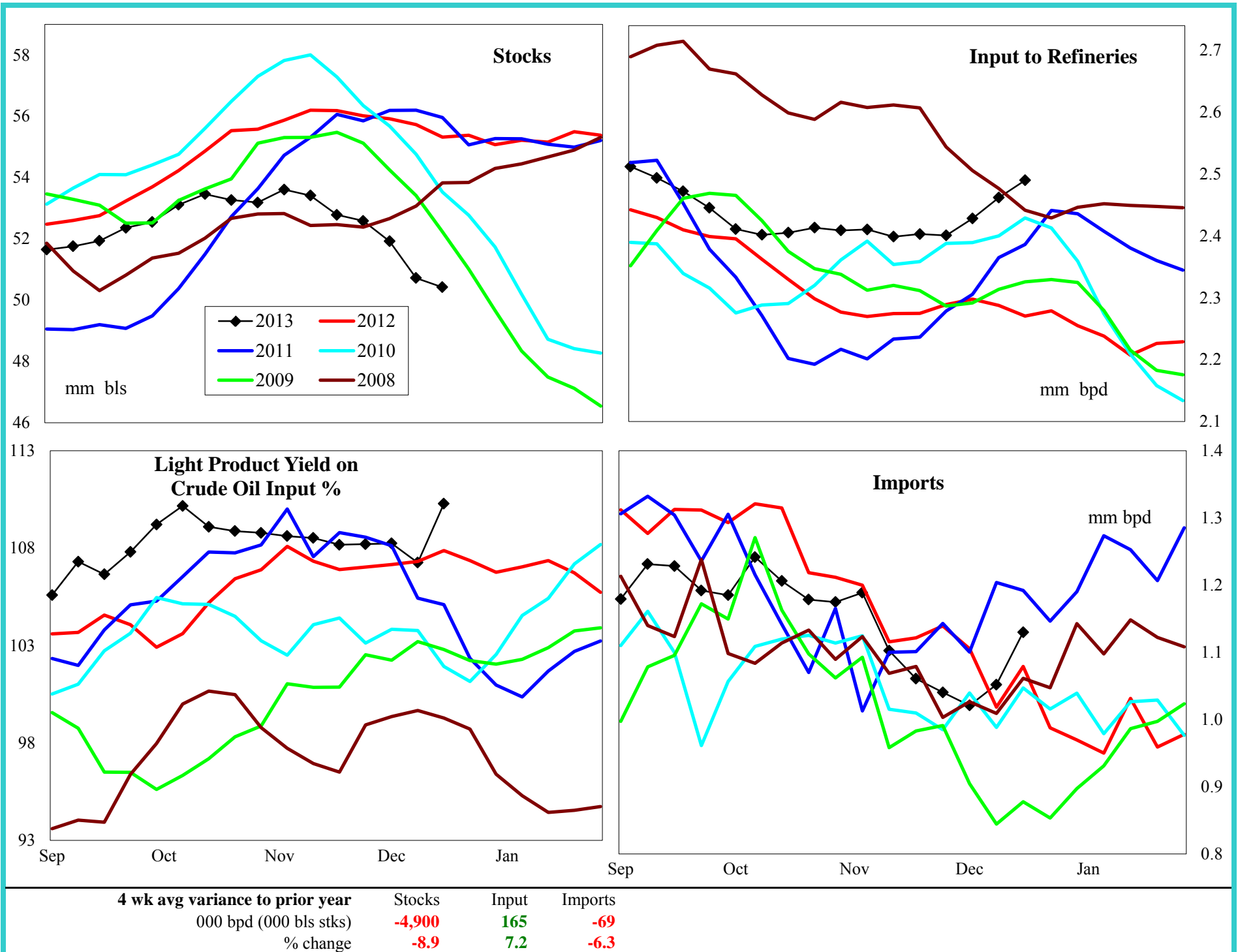
## PADD 4 Jet Fuel Supply



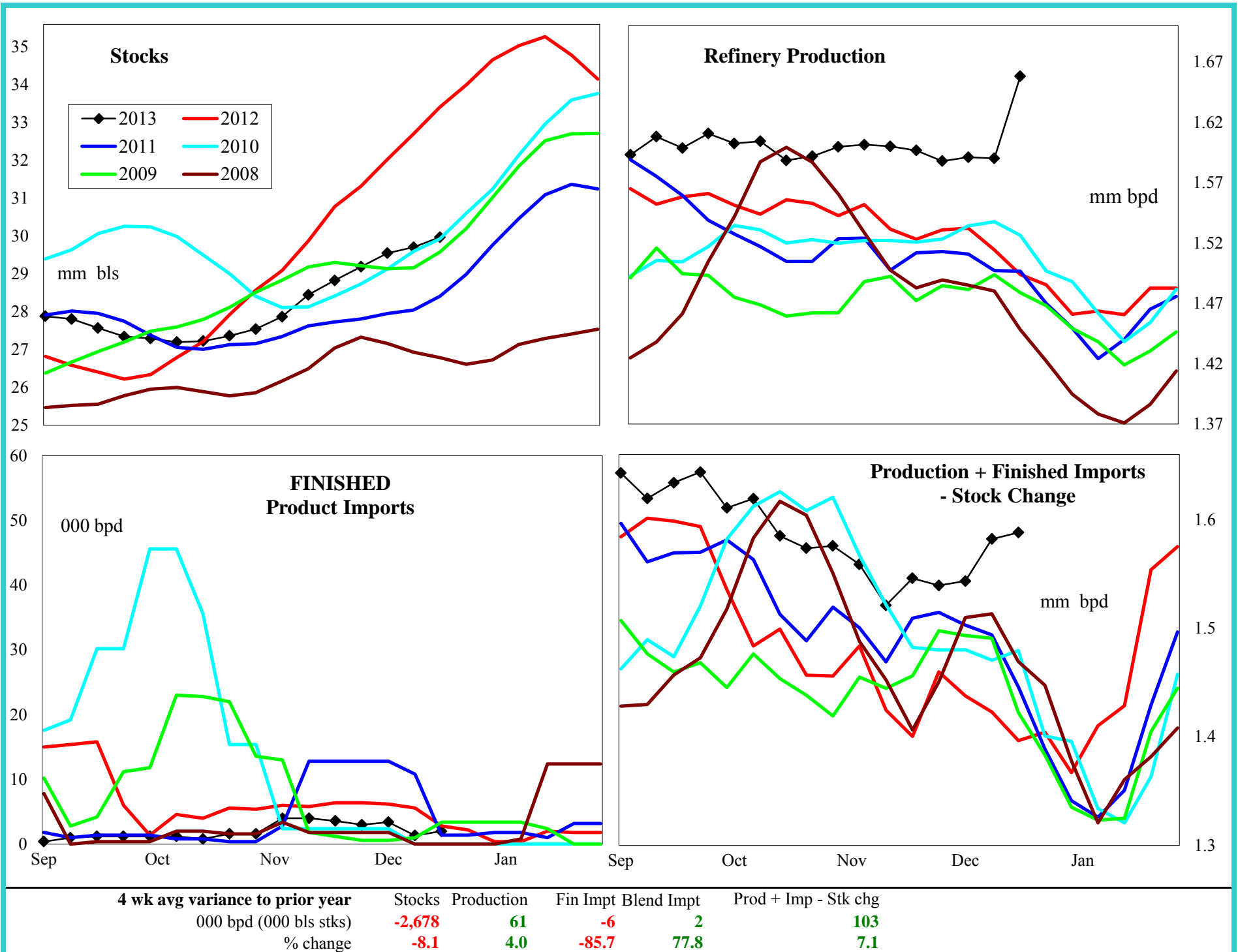
# PADD 4 Residual Fuel Oil Supply



# PADD 5 Crude Oil Supply and Refining

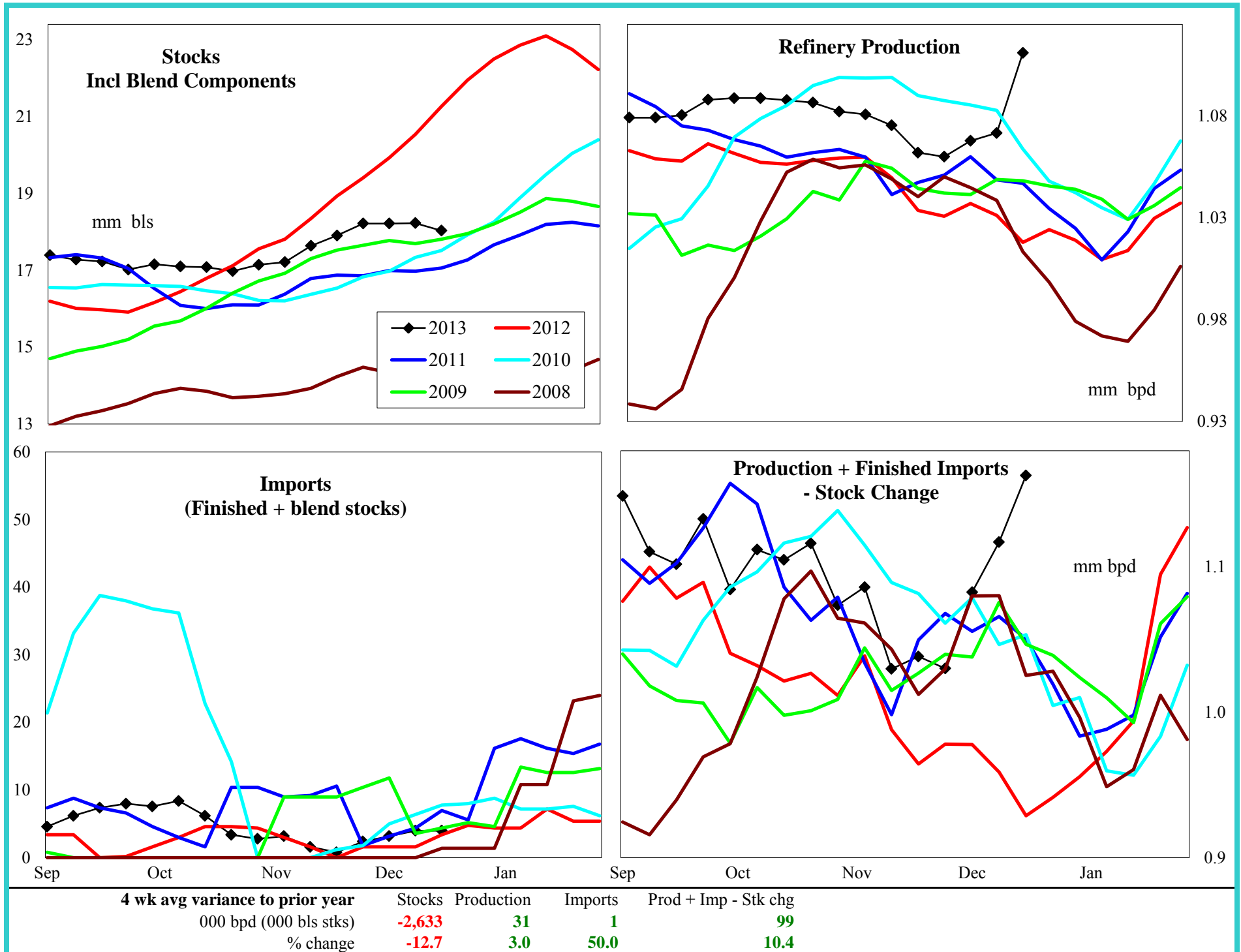


# PADD 5 Gasoline Supply

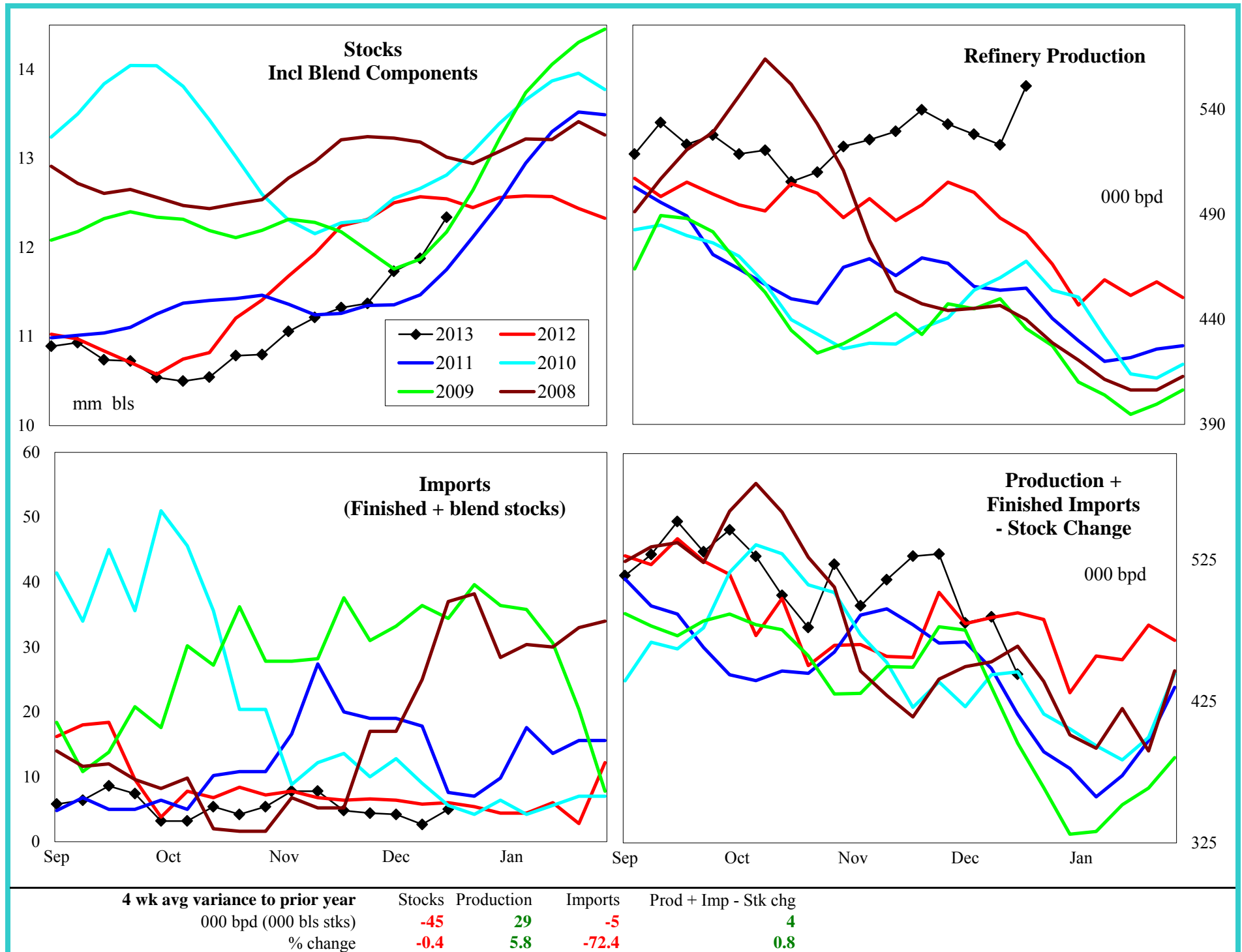




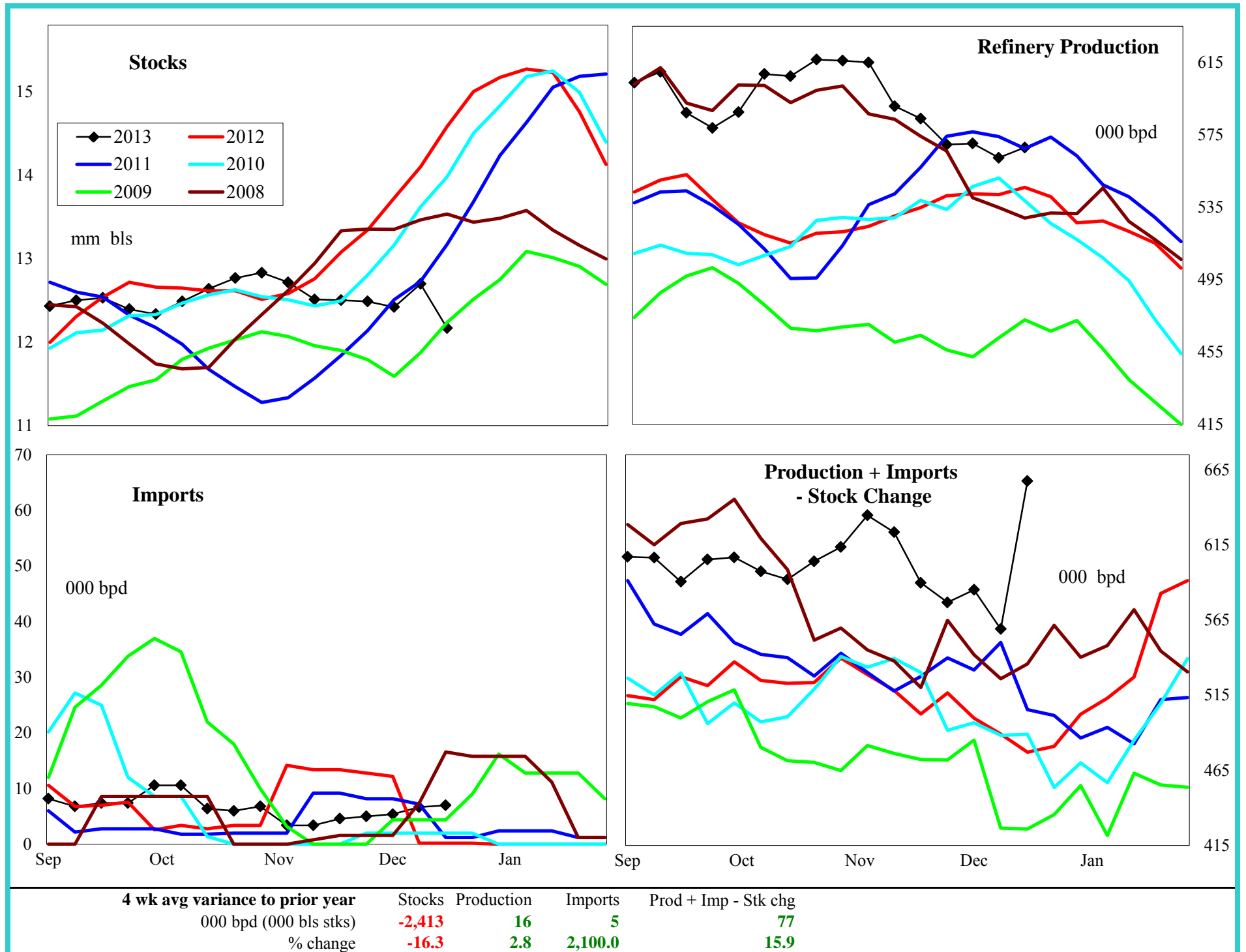
# PADD 5 Reformulated Gasoline Supply



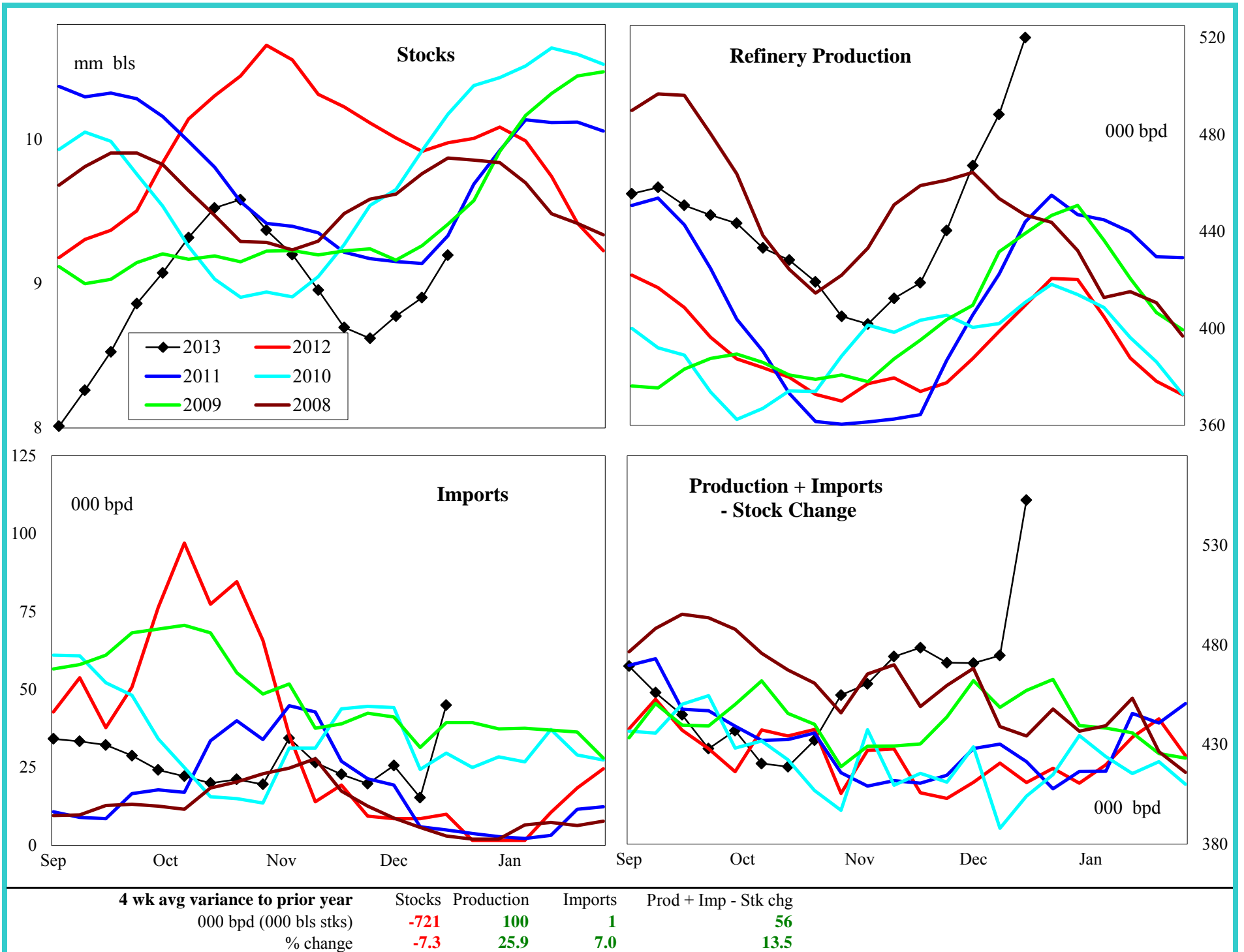
# PADD 5 Conventional Gasoline Supply



## PADD 5 Distillate Supply



# PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

