



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

### A Fundamental Petroleum Trends Weekly Report

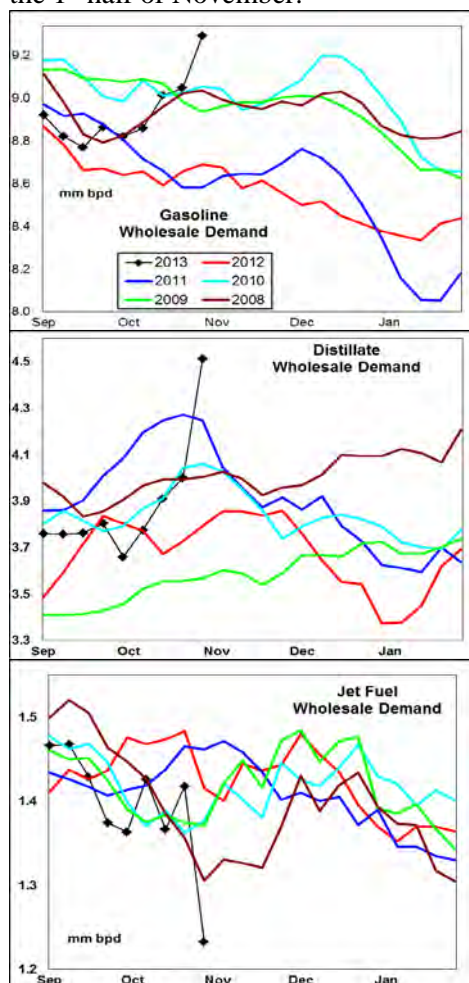
Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, November 06,



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

Wholesale demand for gasoline and distillate each surged for the 2<sup>nd</sup> consecutive week. Such a surge in demand is uncommon given the steep pull back in wholesale prices and weak cash basis across most regional markets during the same period. More likely the surge is driven by a combination of higher exports (distillate) and restatement of inventory levels by the EIA following the earlier government shutdown. Jet fuel demand did collapse -0.4 million bpd last week, reversing the earlier spike.

Look for a very sharp downward correction in wholesale demand during the 1<sup>st</sup> half of November.



Gasoline production fell -1 million bpd

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

last week as numerous refinery FCCU's were offline for planned and unplanned maintenance.

Look for a sharp decline in wholesale demand and rise in production of transport fuels during November which should drive meaningful stock building.

Crude oil stocks increased for the 3<sup>rd</sup> consecutive week in Cushing OK, with the build of +3.6 million barrels leading to a record rate of stock build in this market during the last 4-wks.

**Demand** for gasoline and distillate surged for the 2<sup>nd</sup> consecutive week. Jet fuel demand plunged. Wholesale demand, measured over the last four weeks compared to a year ago: gasoline increased +5.4%; distillate was +8.2% higher; jet fuel was -5.7% lower, and residual decreased -30%.

**Stocks forward coverage:** Gasoline demand coverage fell sharply on a -3.8 million barrel stock draw, and record high demand. Coverage ended the week at a level which matched the 3-yr mid range.

Distillate coverage plunged on a -4.9 million barrel stock draw and +0.4 million bpd spike in wholesale demand. Coverage levels fell to a record low.

Jet fuel coverage increased on a +1 million barrel stock build and -0.4 million bpd drop in wholesale demand. Coverage levels matched the last 2-yrs.

Residual fuel oil coverage remains exceptionally high on very low demand.

**Refinery utilization** rates increased on a +16,000 bpd rise in crude oil runs. During the latest 4-wk period crude oil input was +0.2 million bpd above a year ago.

Gasoline yield % on crude oil runs plunged on a -1.1 million bpd drop in output compared to the +16,000 bpd rise in crude oil runs. Yield % on crude oil runs ended the week at a record low level.

Distillate yield % on crude oil runs was unchanged last week, on a +5,000 bpd rise in output compared to the

increase in crude oil thru put. The yield % on crude oil runs remains well above the 5-yr range.

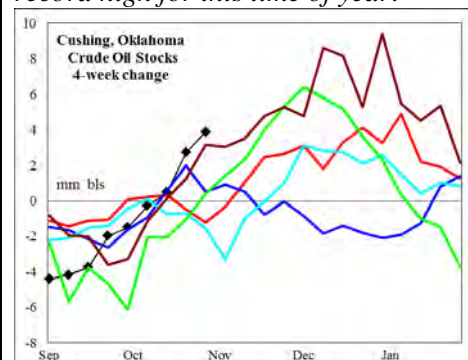
Jet fuel yield % on crude oil runs increased on a +44,000 bpd rise in output, compared the increase in crude oil runs. The yield % level was above the 5-yr range.

**Petroleum Imports/Exports:** Imports of crude oil, gasoline and jet fuel were each lower last week. Distillate imports were at 5-yr highs for the period.

During the latest 4-wk period crude oil *imports* were -0.7 million bpd below last year; distillate imports were +79,000 bpd higher; finished gasoline imports increased +13,000 bpd, gasoline blend stock imports were +10,000 bpd higher; jet fuel imports decreased -45,000 bpd, while residual fuel oil imports were -101,000 bpd lower.

The latest weekly *export* estimate saw a +56,000 bpd increase in gasoline, a +349,000 bpd jump in distillate and +73,000 bpd rise in jet fuel compared to a year ago.

**Crude Oil** stocks increased +1.6 million barrels last week. A record low level of imports led to a -2.5 million barrel stock draw in the Gulf. *Cushing stocks have increased +3.6 million barrels in the last 3-wks; driving the 4-wk rate of build to a record high for this time of year.*





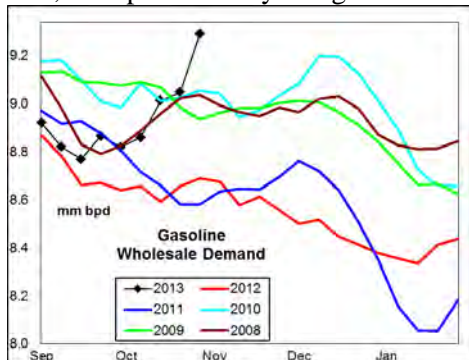
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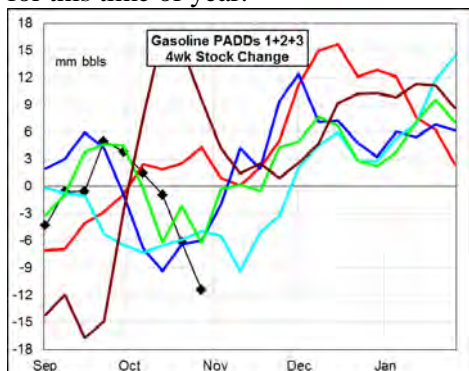
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#### Product Supply-Demand Trends

**Gasoline** wholesale demand jumped +238,000 bpd last week to a new record high level. The latest 4-wk average demand was +462,000 bpd above a year ago. Supply plunged -1.1 million bpd on a dramatic drop in production and record low imports. Supply for the latest 4-wk period was +43,000 bpd above a year ago.



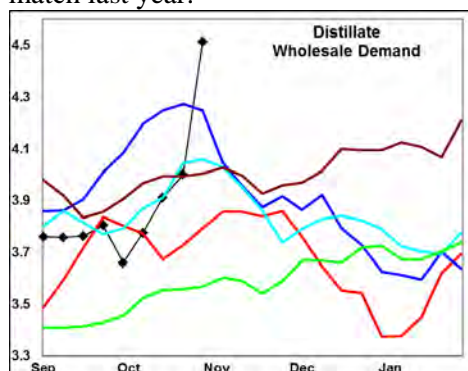
Stocks fell -3.8 million barrels last week, ending at a level near historic highs. The latest 4-wk stock change in markets East of the Rockies was a -11.4 million barrel draw, a record draw for this time of year.



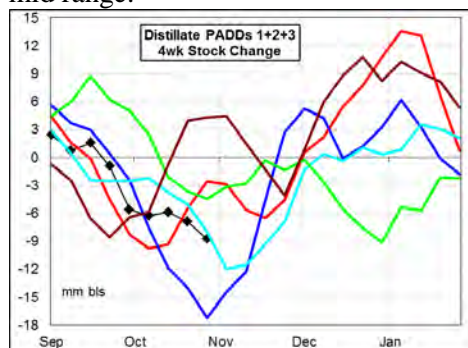
Refinery maintenance on the East Coast and Eastern Canada has created a supply squeeze in the region. Concurrently, production surged in the Midwest as refiners returned FCCU's to operation. Look for a sharp rise in production as refiners return from maintenance and seasonal demand falls sharply to drive a return to stock building over the next 60-days.

**Distillate** wholesale demand extended the surge, rising +0.4 million bpd to an all time record high last week. The high demand level indicates a restatement of inventories by the EIA.

The latest 4-wk average demand was +298,000 bpd above last year. Supply increased +93,000 bpd last week on higher imports. The latest 4-wk average supply was +469,000 bpd above last year. Stocks fell -5 million barrels on the week, to a level that match last year.



The latest 4-wk stock change in markets East of the Rockies was a -12 million barrel draw, equal to the 3-yr mid range.



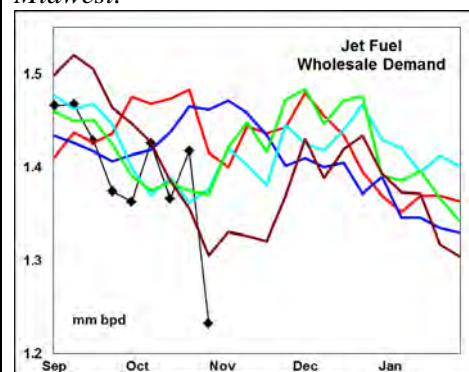
Look for production to reach a seasonal peak over the next 60-days, with a pull back in wholesale demand. As a result, look for meaningful stock builds by late December and early January. Significant fuel switching in the Northeast to natural gas will reduce the impact of winter heating on distillate supplies.

**Jet Fuel** wholesale demand fell -438,000 bpd last week, more than reversing the prior week surge. The latest 4-wk average demand was -85,000 bpd below last year.

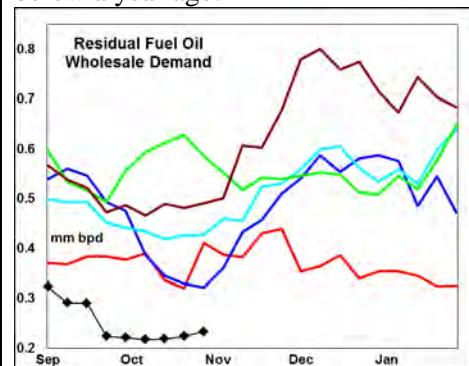
Supplies increased +17,000 bpd on the week, driven by higher production. Production was a record high for the week. Supply for the latest 4-wk

period was -49,000 bpd below a year ago. Stocks increased +1 million barrels last week, with a level -9% below a year ago.

Record production should lead to modest stock building as refiners return from maintenance. Stock levels remain below the historic range in the Midwest.



**Residual fuel oil** demand increased +19,000 bpd last week. Demand for the latest 4-wk period was -72,000 bpd below a year ago.



Supply (production + imports) decreased -58,000 bpd on lower imports. Production remains -20% below a year ago. Stock levels ended the week at a level below the last 5-yrs.

Production was -95,000 bpd (-35%) below a year ago for the most recent 4-wks. Imports to the region were -84,000 bpd below last year (-82%). Even with the collapse in residual fuel oil supplies, the industry has failed to liquidate stocks which are equal to nearly 200 days supply.



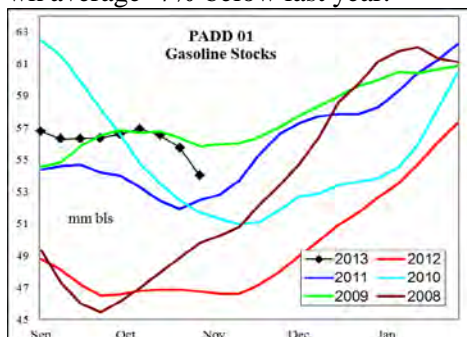
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#### PADD Supply Trends

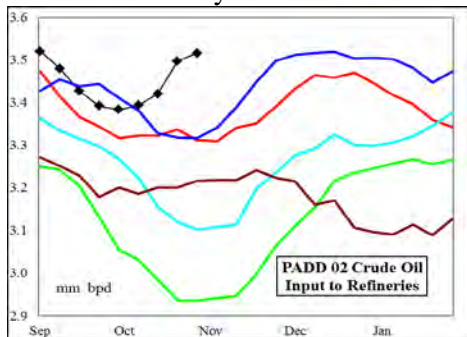
**PADD 1** refinery crude oil runs fell -57,000 bpd last week; with the latest 4-wk average -7% below last year.



Gasoline supply fell -147,000 bpd on the week. Refinery FCCU maintenance at two Central Atlantic and one eastern Canada refineries has created a supply squeeze. Stocks fell -2 million barrels on the week, to a level above the 3-yr range.

Distillate supply increased +19,000 bpd last week, with the 4-wk average +82,000 bpd above a year ago. Stocks declined -1.3 million barrels on the week, to a level that matched last year.

Jet fuel stocks increased +0.2 million barrels on the week, to a level that matched last year.



**PADD 2** crude oil refinery runs decreased -22,000 bpd last week, with the latest 4-wk average +114,000 bpd above last year. Crude oil stocks increased +2.7 including a +1 million barrel build in Cushing. Stocks in Cushing have seen three consecutive weekly builds totaling 3.6 million barrels.

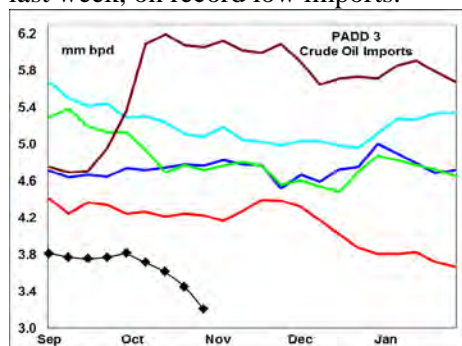
Gasoline production surged +0.3 million bpd last week to a record high level as refiners restarted FCCU's,

converting in-process to finished gasoline. Stocks decreased -0.8 million barrels on the week, to a level above the 3-yr mid range.

Distillate supply increased +20,000 bpd last week, a level sharply above the 5-yr range. Stocks decreased -1.5 million barrels to a level below the 3-yr mid range.

Jet fuel production increased +6,000 bpd to a new record high level. Stock levels ended the week -18% below a year ago and well below the 5-yr range.

**PADD 3** refinery runs increased +98,000 bpd last week with the level slightly below a year ago. During the latest 4-wk period, average runs were unchanged from last year. Crude oil stocks decreased -2.5 million barrels last week, on record low imports.



Gasoline supply fell -129,000 bpd on the week, with the latest 4-wk average -44,000 bpd below a year ago. Stocks fell -1.8 million barrels last week, to a level that matched the 3-yr mid range.

Distillate supply increased +81,000 bpd on the week, with the latest 4-wk average supply +261,000 bpd above last year. Stocks fell -2 million barrels last week, to a level +6% above a year ago.

Jet fuel production increased +39,000 bpd on the week, to a level just below 5-yr highs. Stocks increased +0.6 million barrels on the week to a level -10% below a year ago.

Residual fuel supply was -179,000 bpd below last year and a record low for this time of year. Stock levels remain near last year's record high.

**PADD 4** refinery crude runs were unchanged last week, at a level above

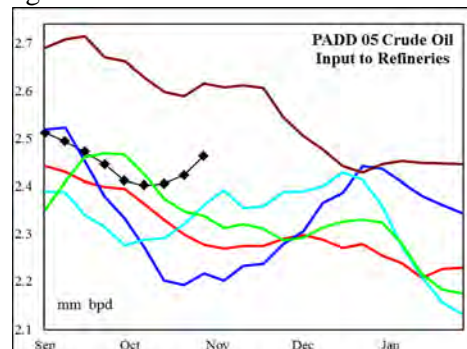
the historic range. Crude oil stock levels were +9% above the previous record high, even with imports -15% below a year ago.

Gasoline production increased +5,000 bpd on the week, to a level +30,000 bpd above the last 2-yrs. Stocks levels ended the week at a 5-yr high for the period.

Distillate production increased +11,000 bpd on the week, a level at the upper end of the historic range. Stocks fell -0.3 million barrels on the week, to a level that matched historic highs.

Jet fuel production was at a 5-yr high, with stocks -11% below the last 3-yrs.

**PADD 5** crude oil refinery runs were unchanged last week at a level above four of the last 5-yrs. The latest 4-wk run rate was +92,000 bpd above a year ago.

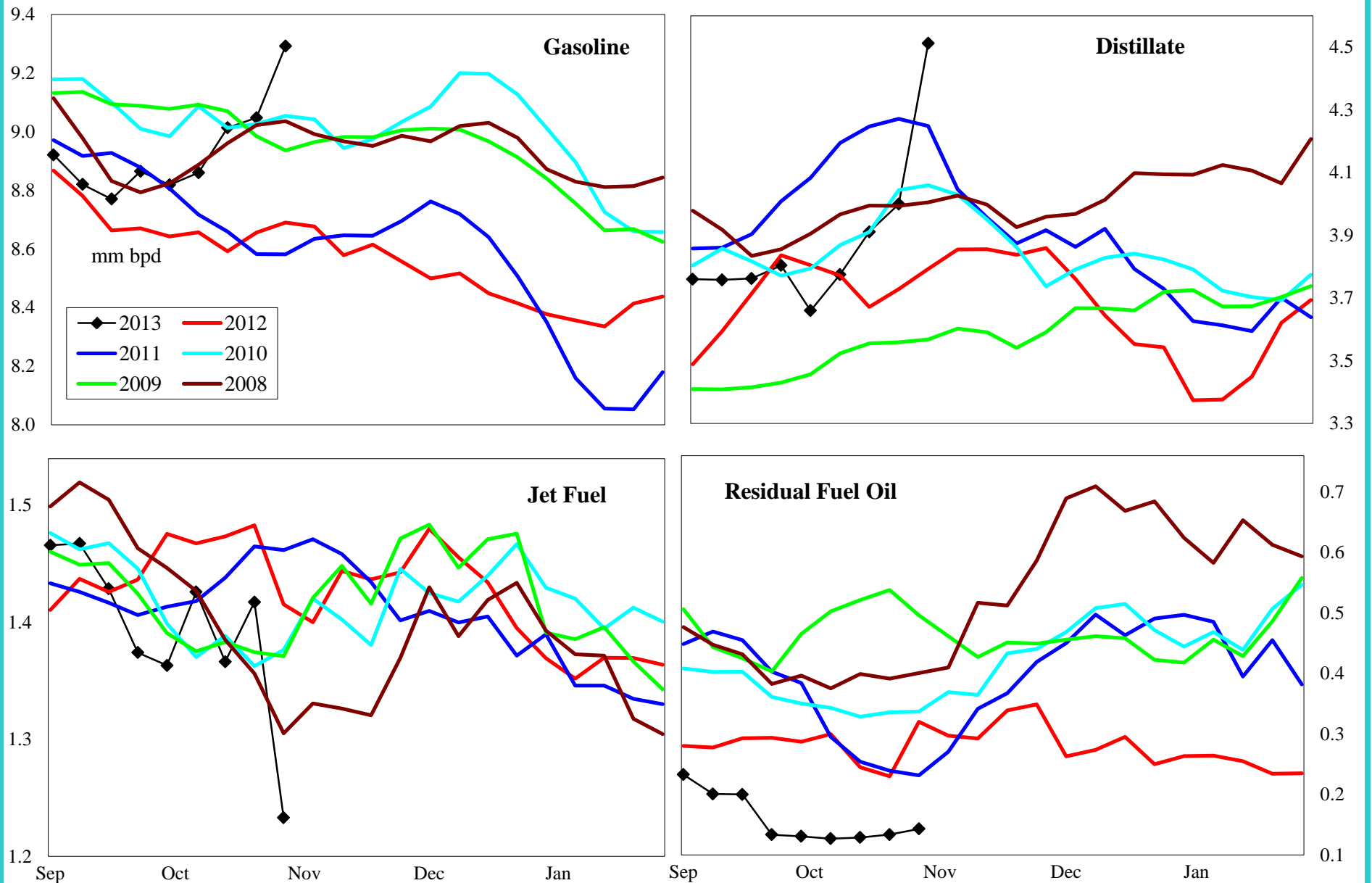


Gasoline supply increased +13,000 bpd on the week with production matching 5-yr highs. The latest 4-wk average supply was +33,000 bpd above a year ago. Stocks increased +0.9 million barrels last week, to a level near the historic mid range. Distillate supply decrease -39,000 bpd, but the level remains well above the 5-yr range. The latest 4-wk average supply was +108,000 bpd above last year. Stocks increased +0.2 million barrels to a level above the 5-yr range for the period.

Jet fuel supply decreased -21,000 bpd last week, to a level below last year, on sharply lower imports. Stocks decreased -0.1 million barrels on the week to a level above four of the last 5-yrs.



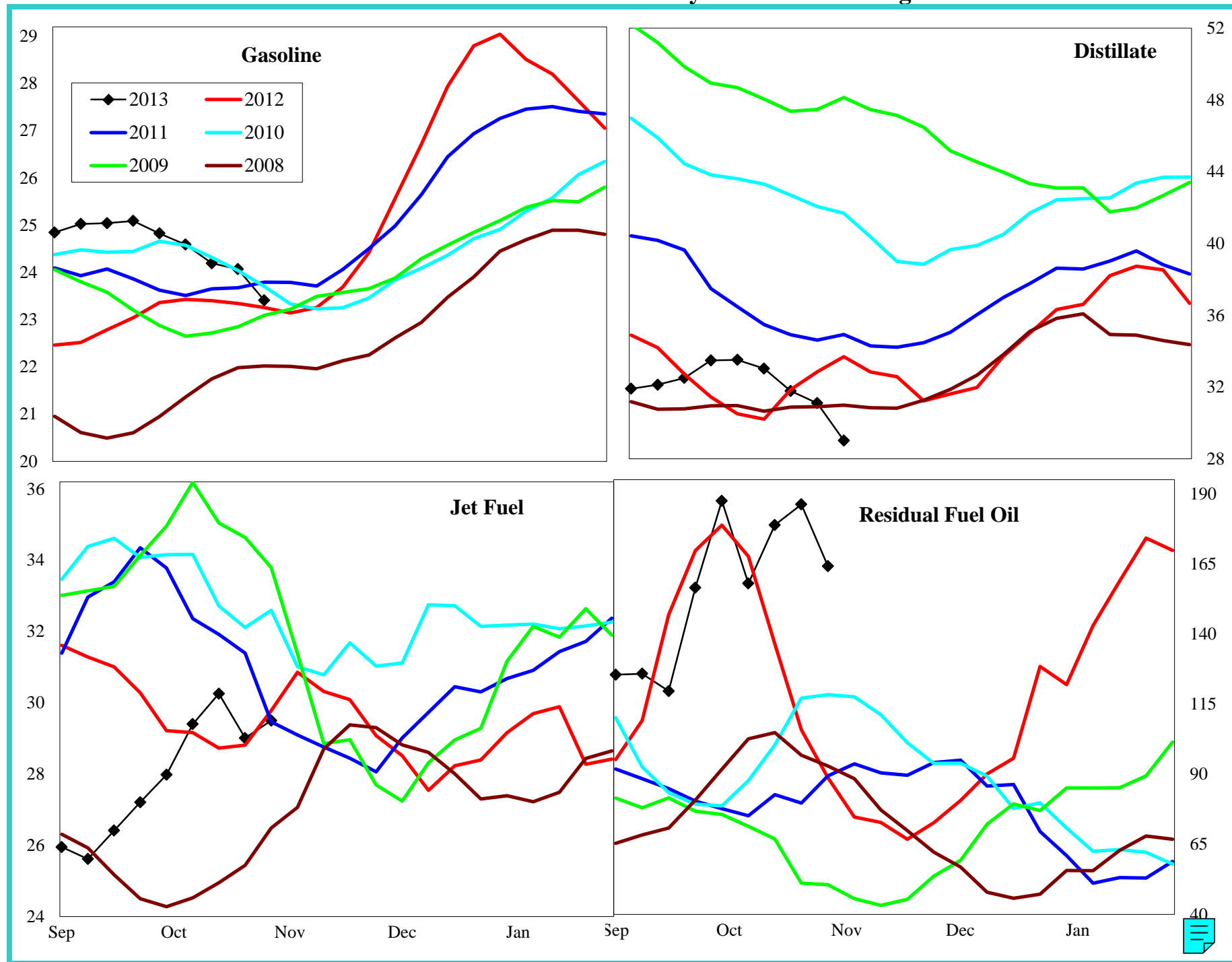
# United States Wholesale Petroleum Demand



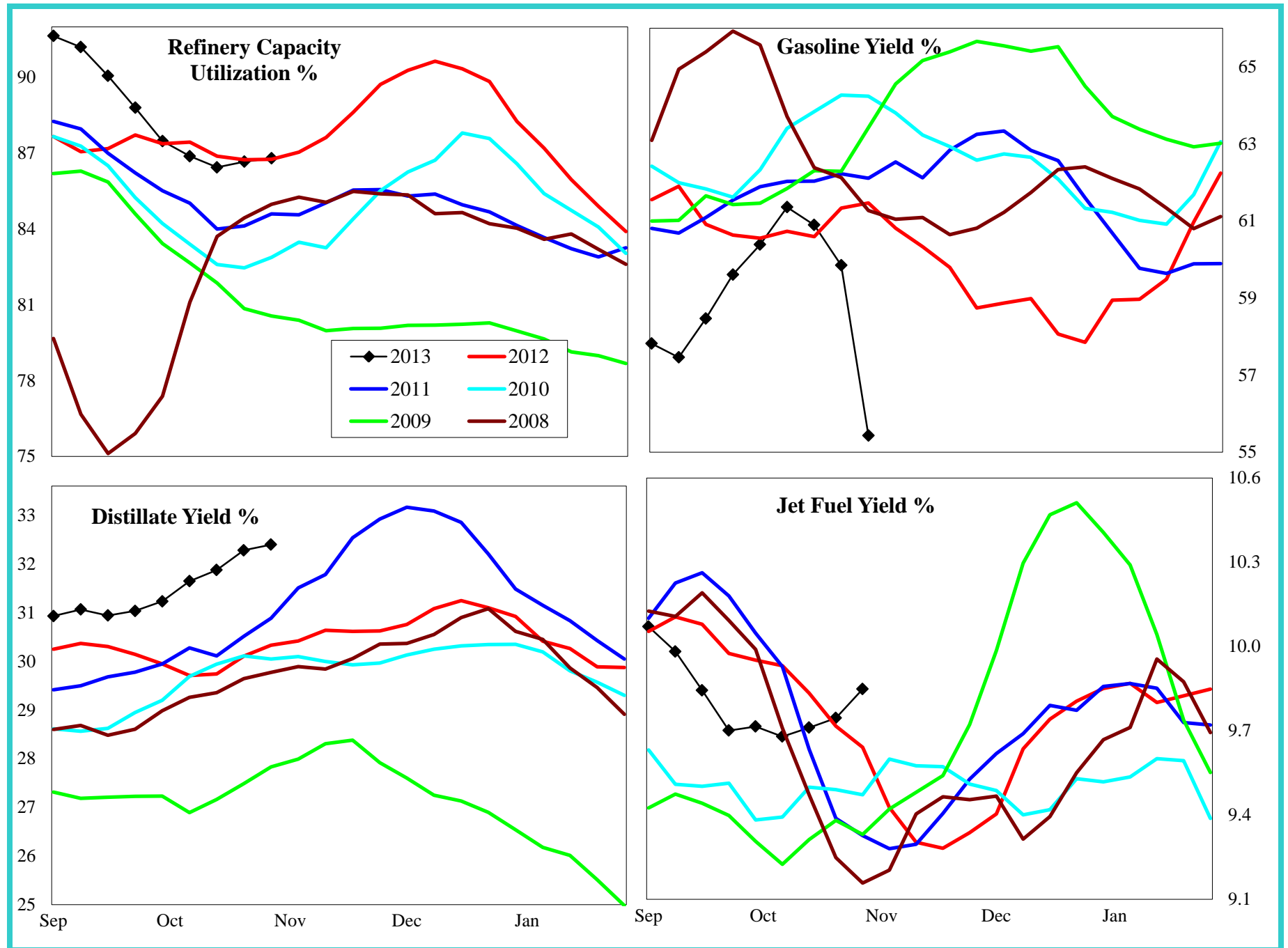
	000 bpd change from prior year				% change from prior year			
	4wk avg	Sep	Aug	Jul	4wk avg	Sep	Aug	Jul
<b>Gasoline</b>	462	237	-6	237	5.4	2.8	-0.1	2.7
<b>Distillate</b>	298	141	-23	16	8.2	3.8	-0.6	0.5
<b>Jet Fuel</b>	-85	-3	80	51	-5.7	-0.2	5.4	3.5
<b>Resid</b>	-72	-125	-85	-56	-29.8	-41.4	-24.1	-13.4



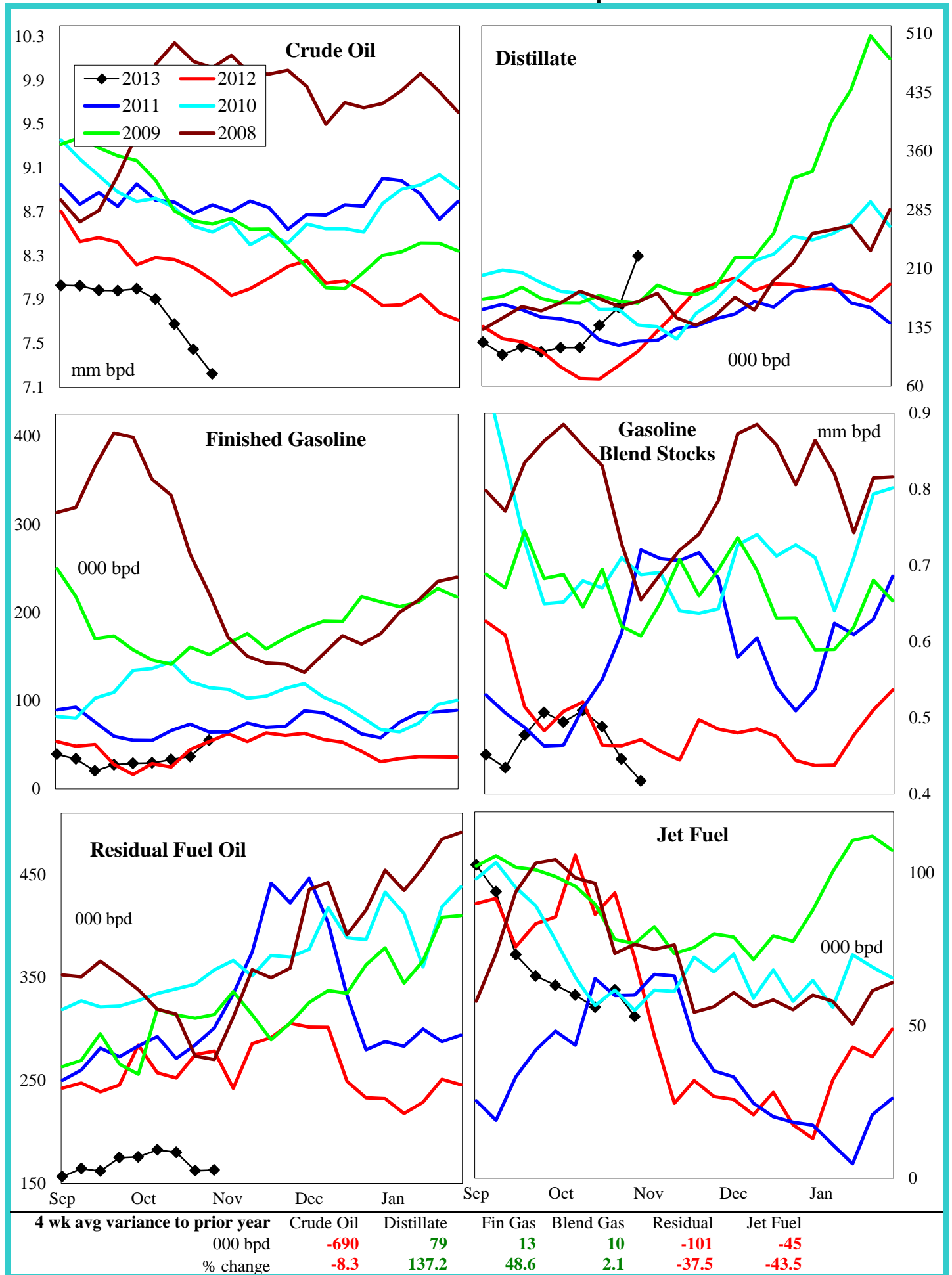
# United States Product Stocks: Days Forward Coverage



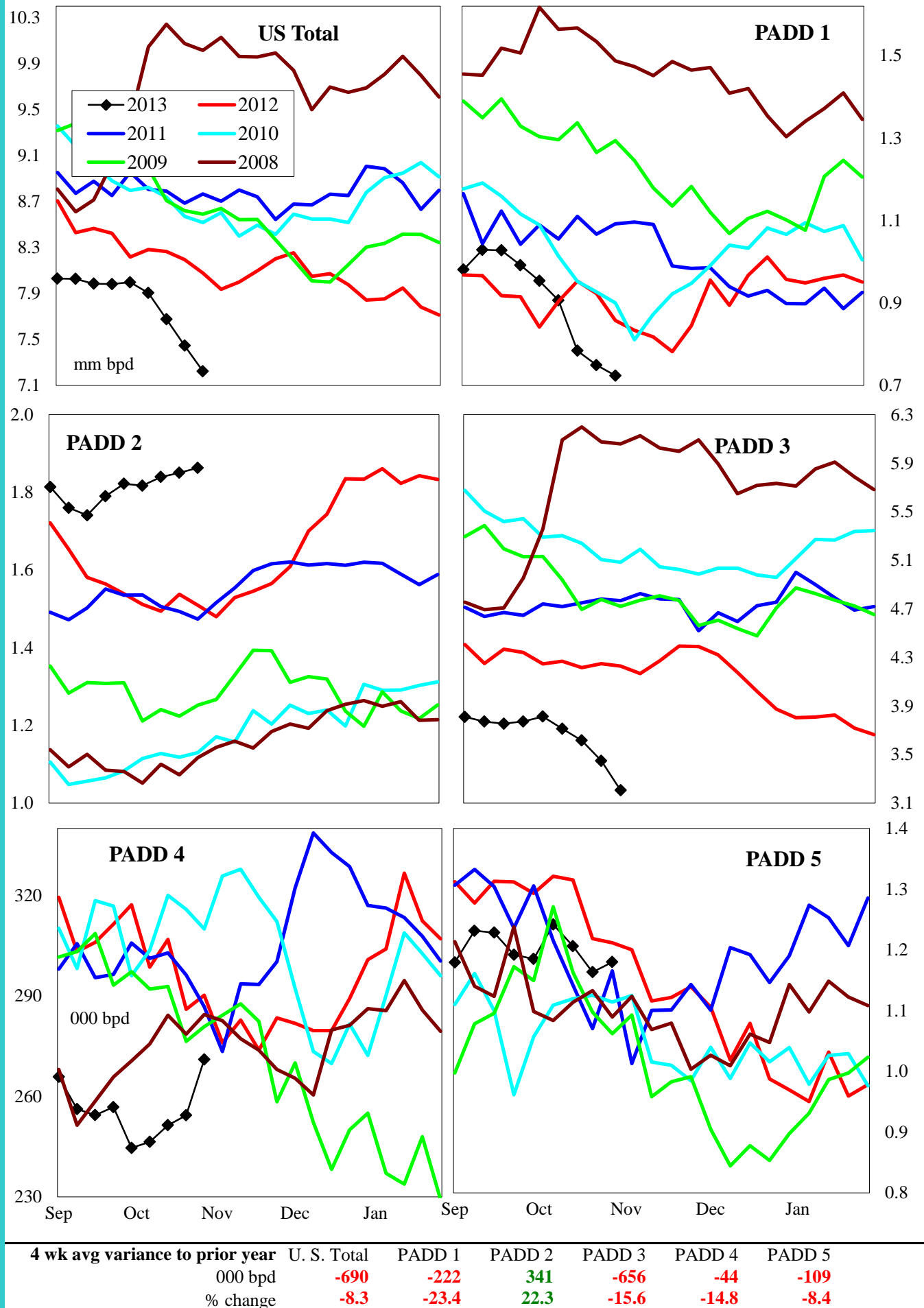
## United States Refinery Percent Utilization Rate and Product Yields



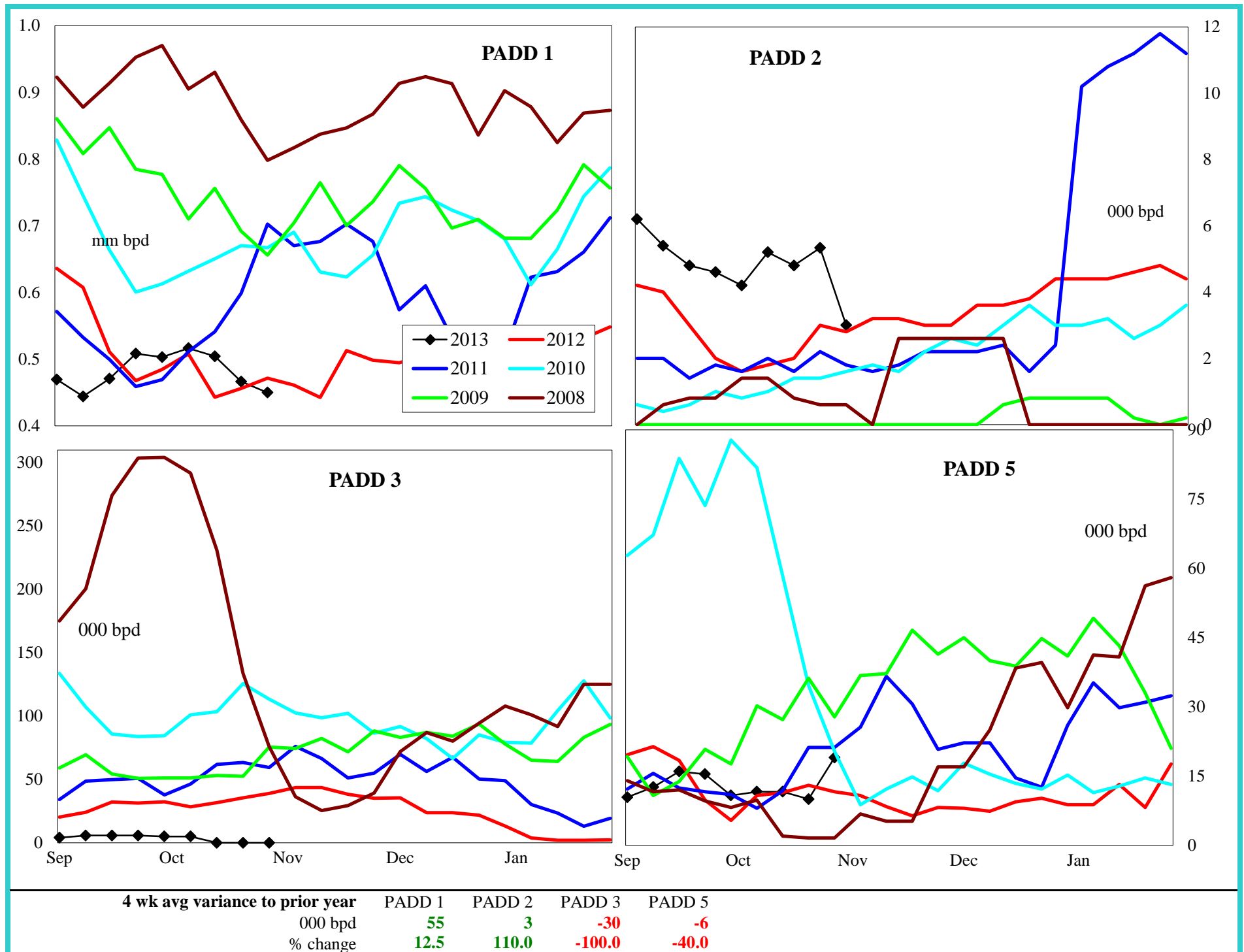
# United States Petroleum Imports



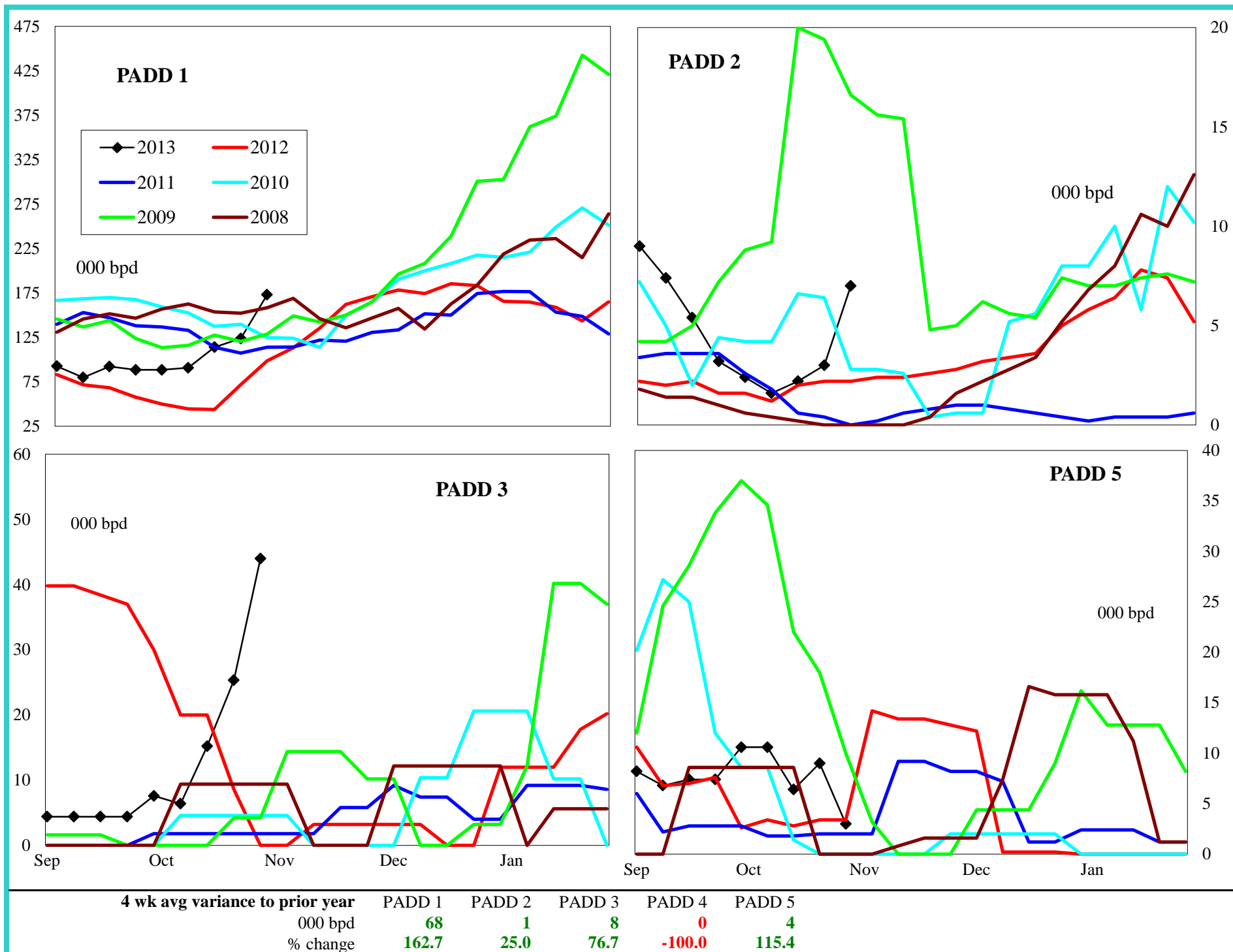
## Crude Oil Imports by PADD



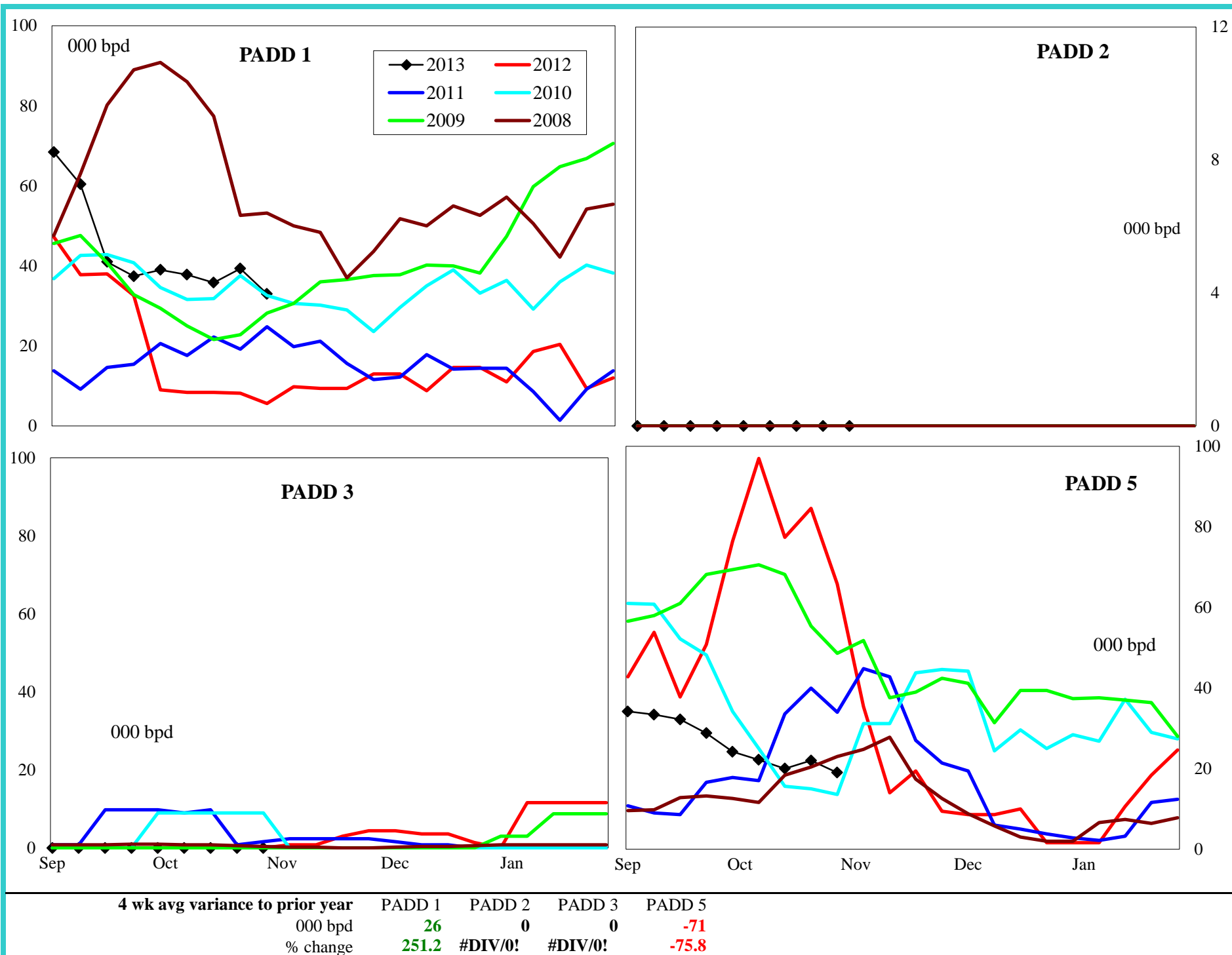
# Gasoline Imports by PADD (Finished + Blend Stocks)



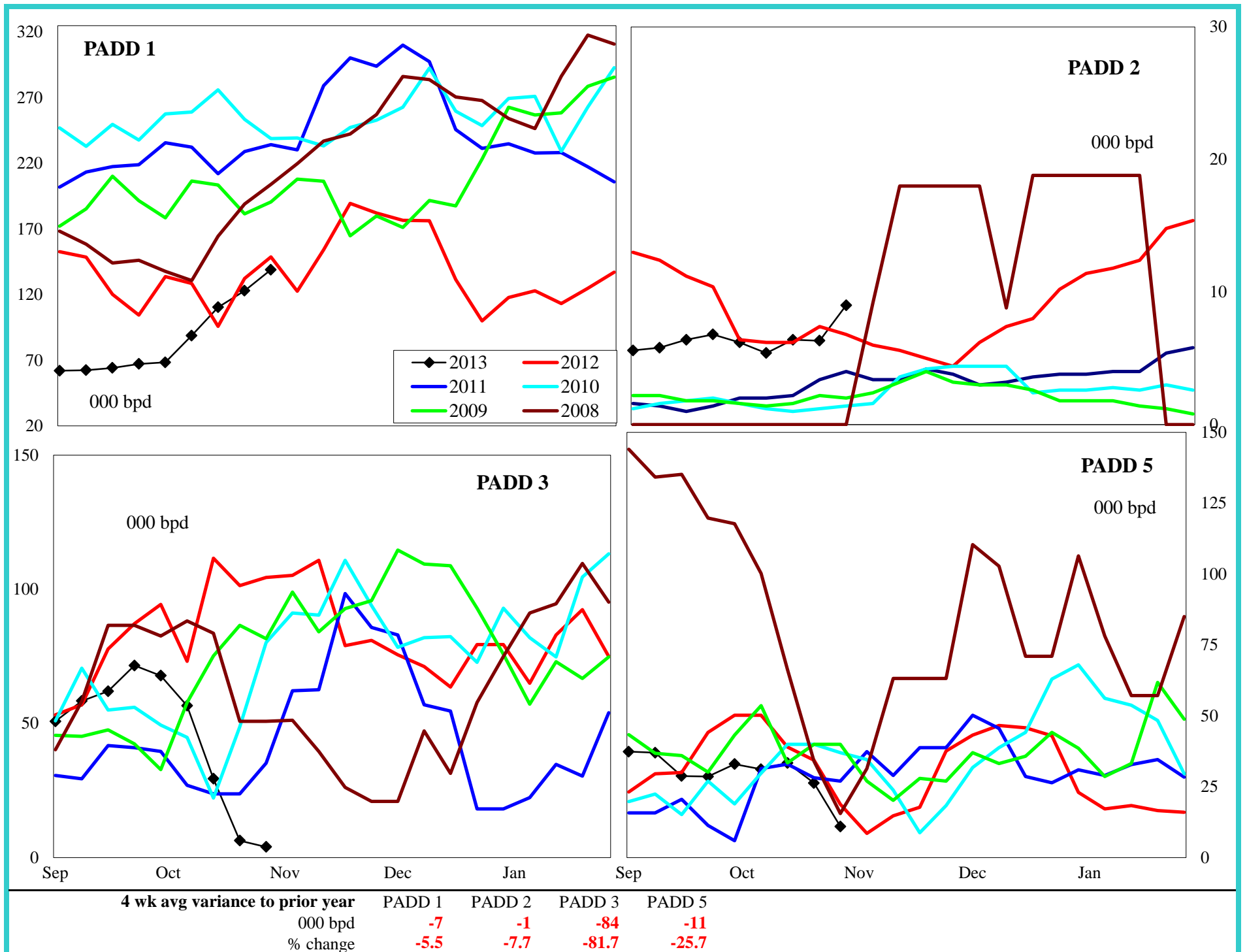
# Distillate Imports by PADD



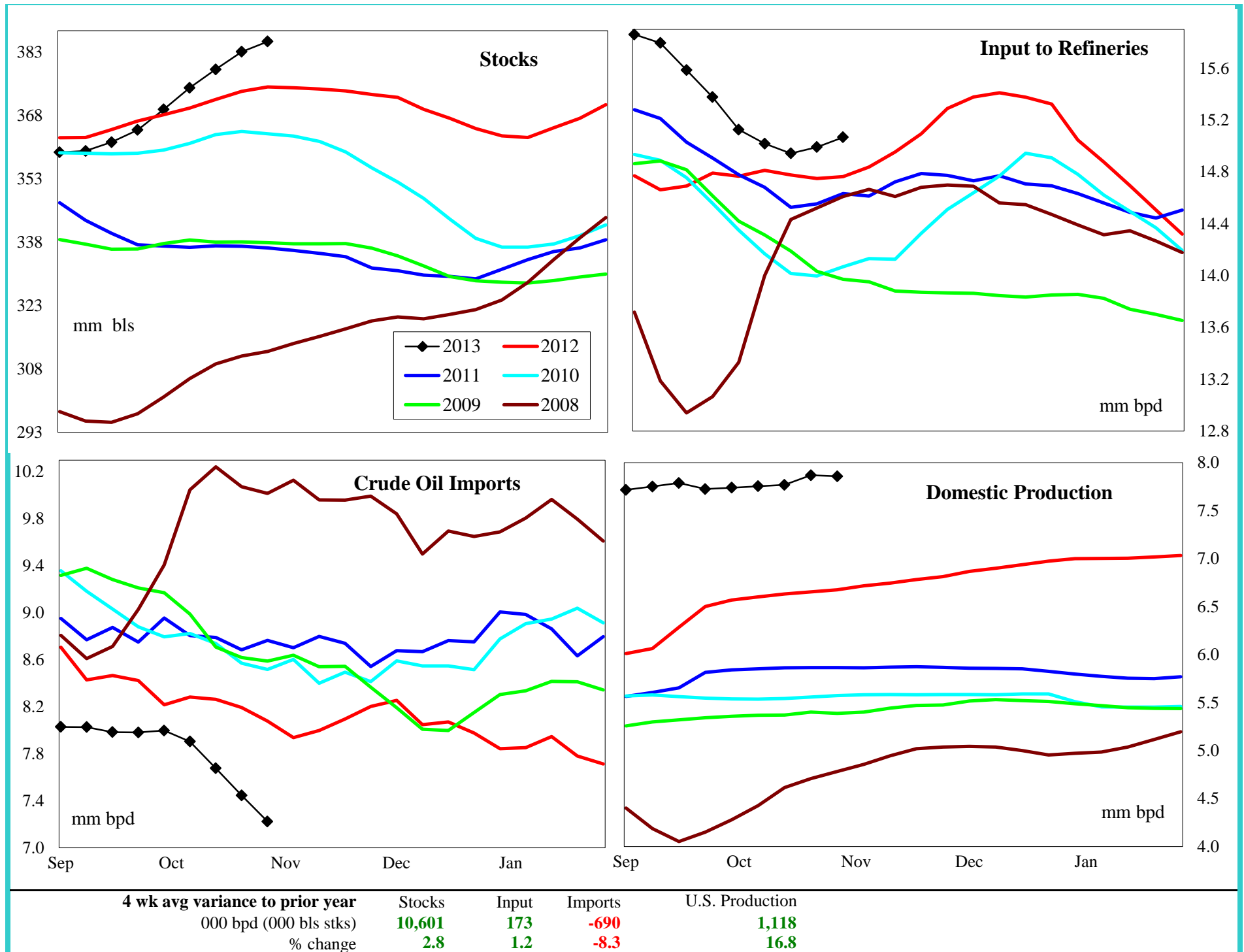
# Jet Fuel Imports by PADD



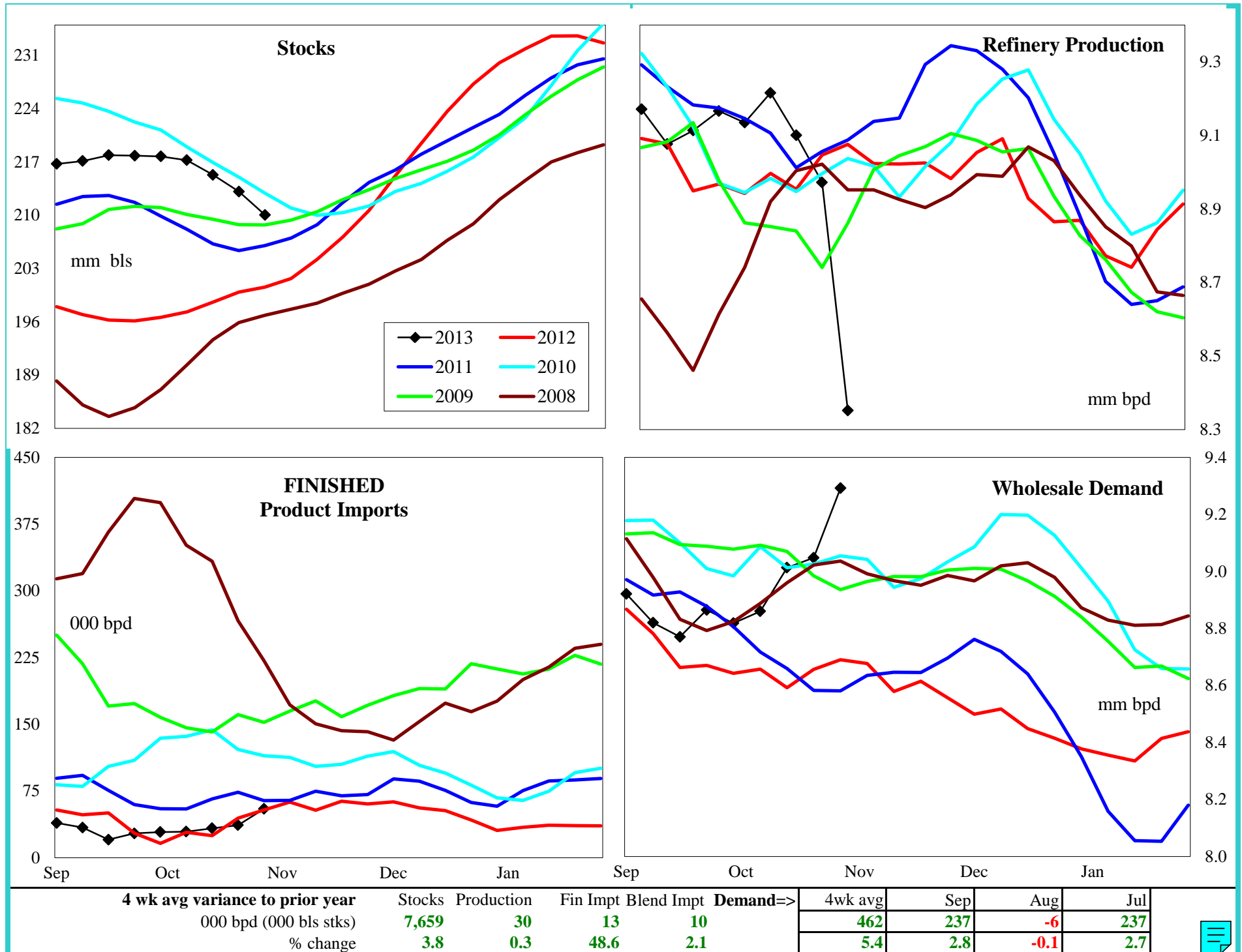
## Residual Fuel Oil Imports by PADD



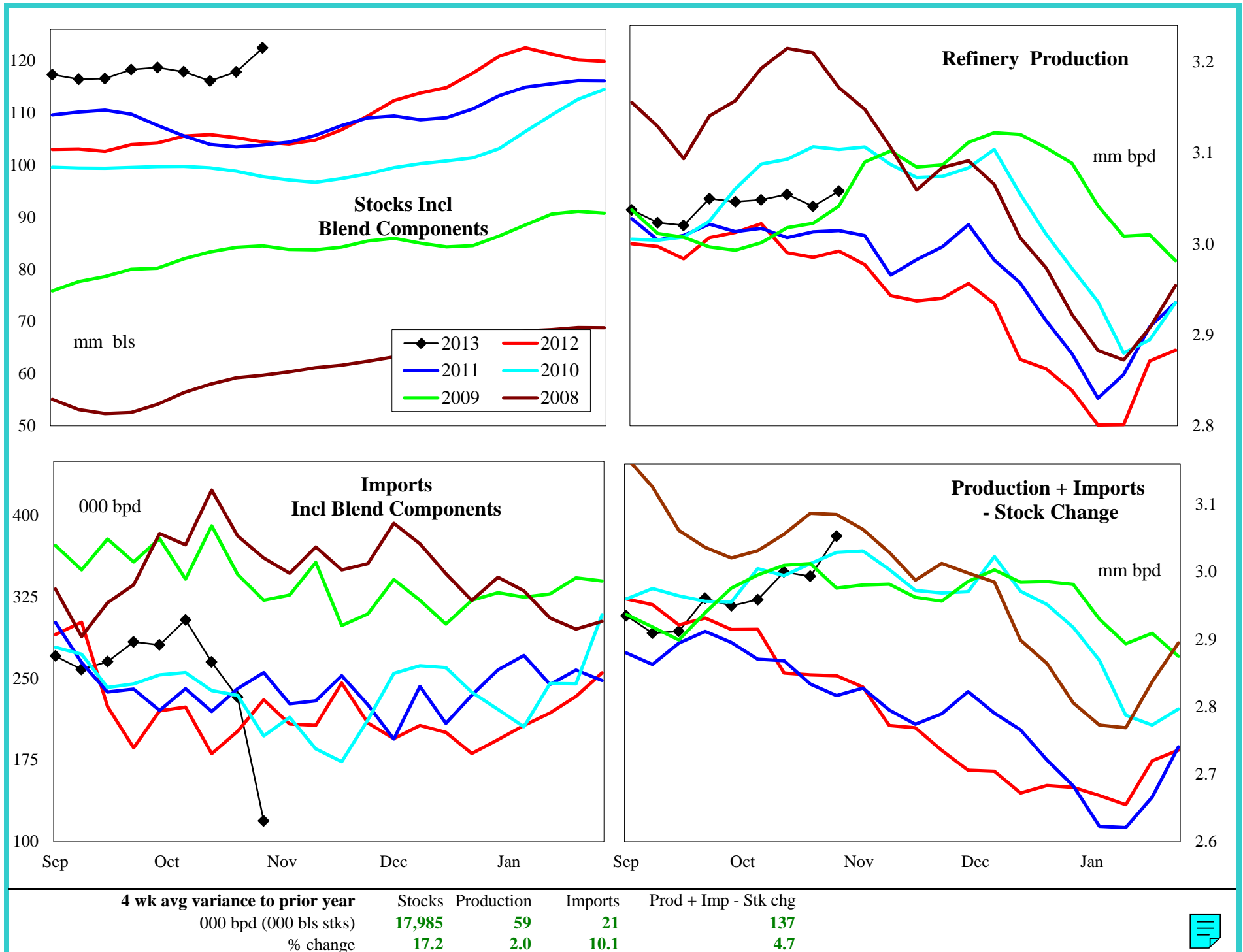
# United States Crude Oil Supply and Demand Balance



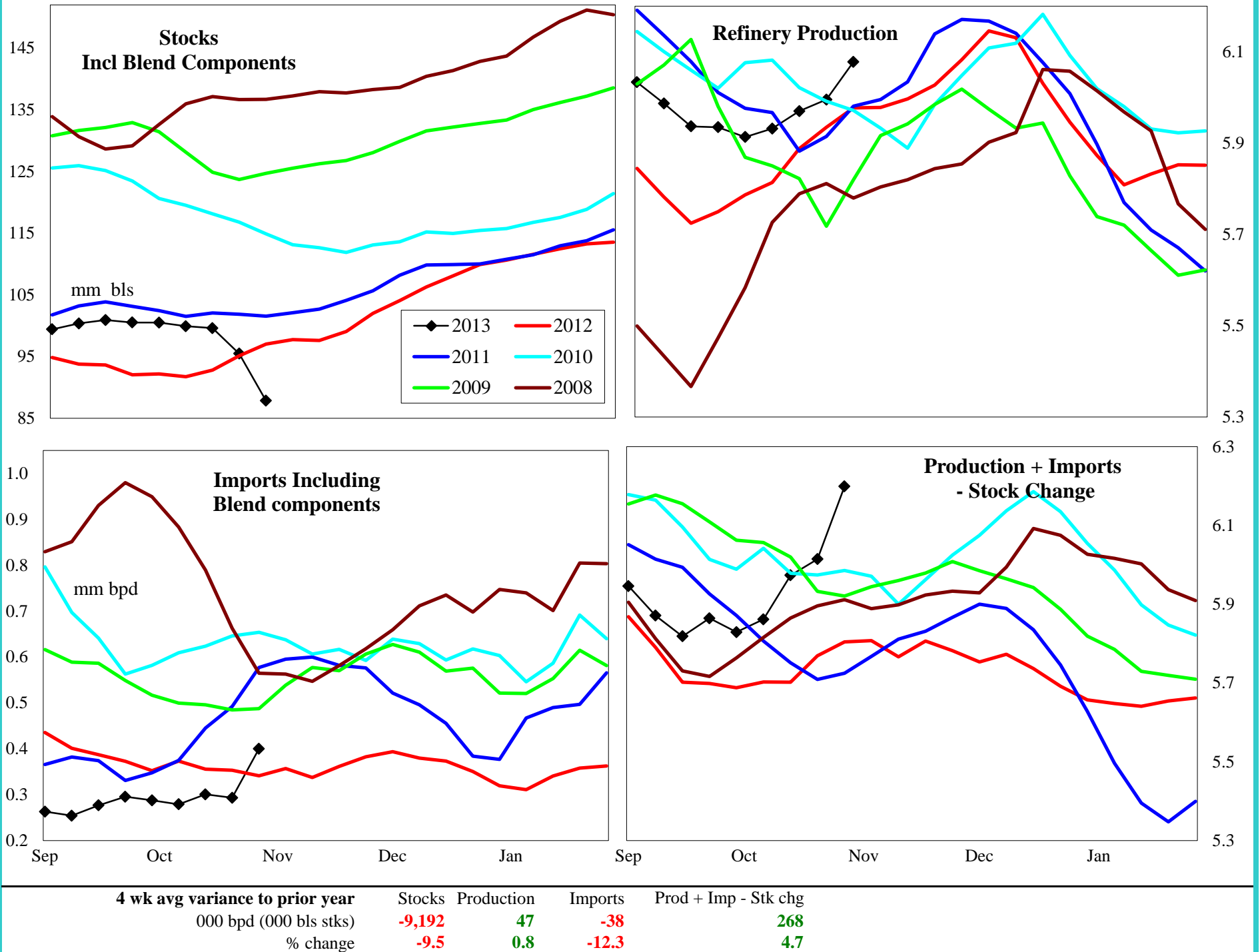
# United States Gasoline Supply and Demand Balance



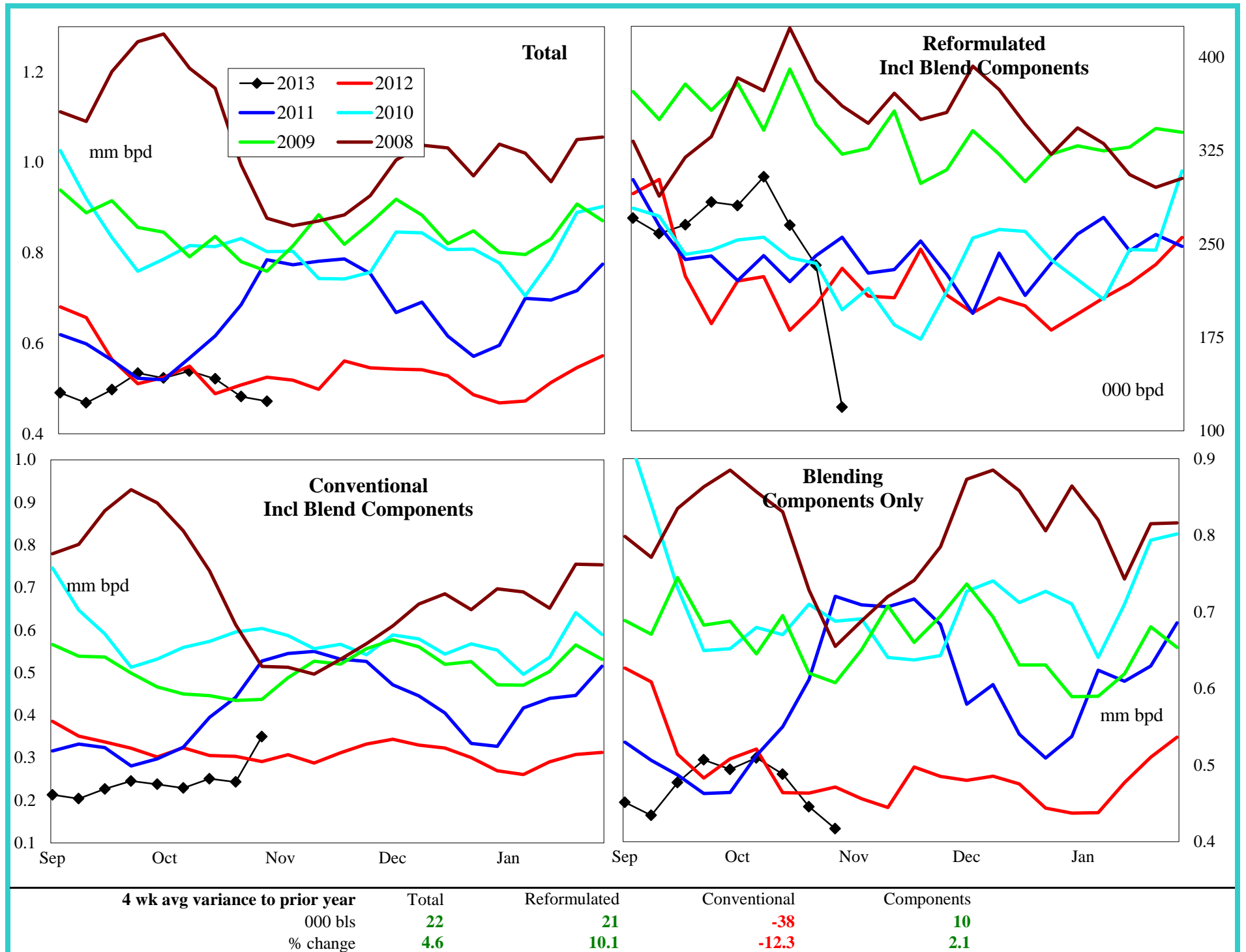
# United States Reformulated Gasoline Supply



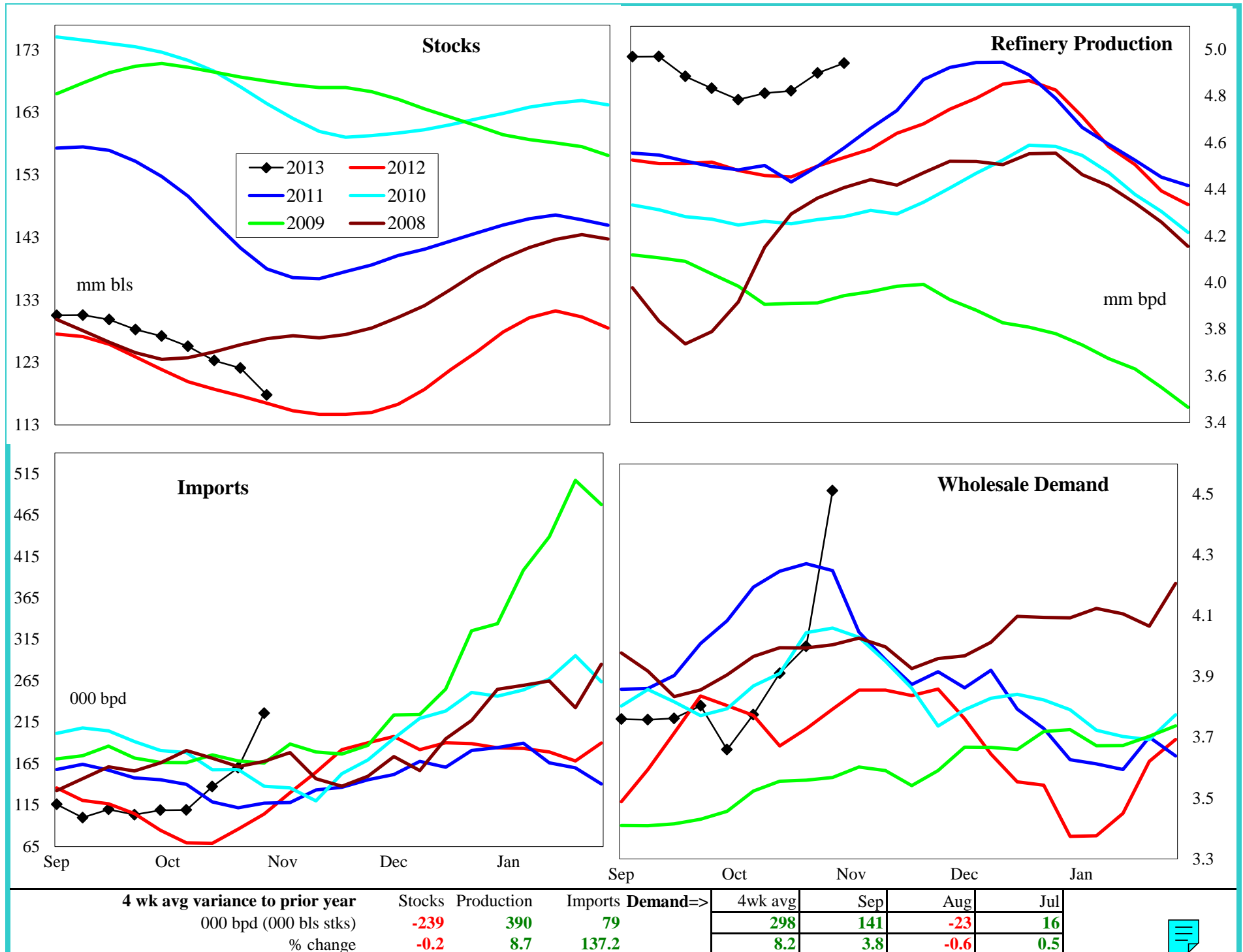
# United States Conventional Gasoline Supply



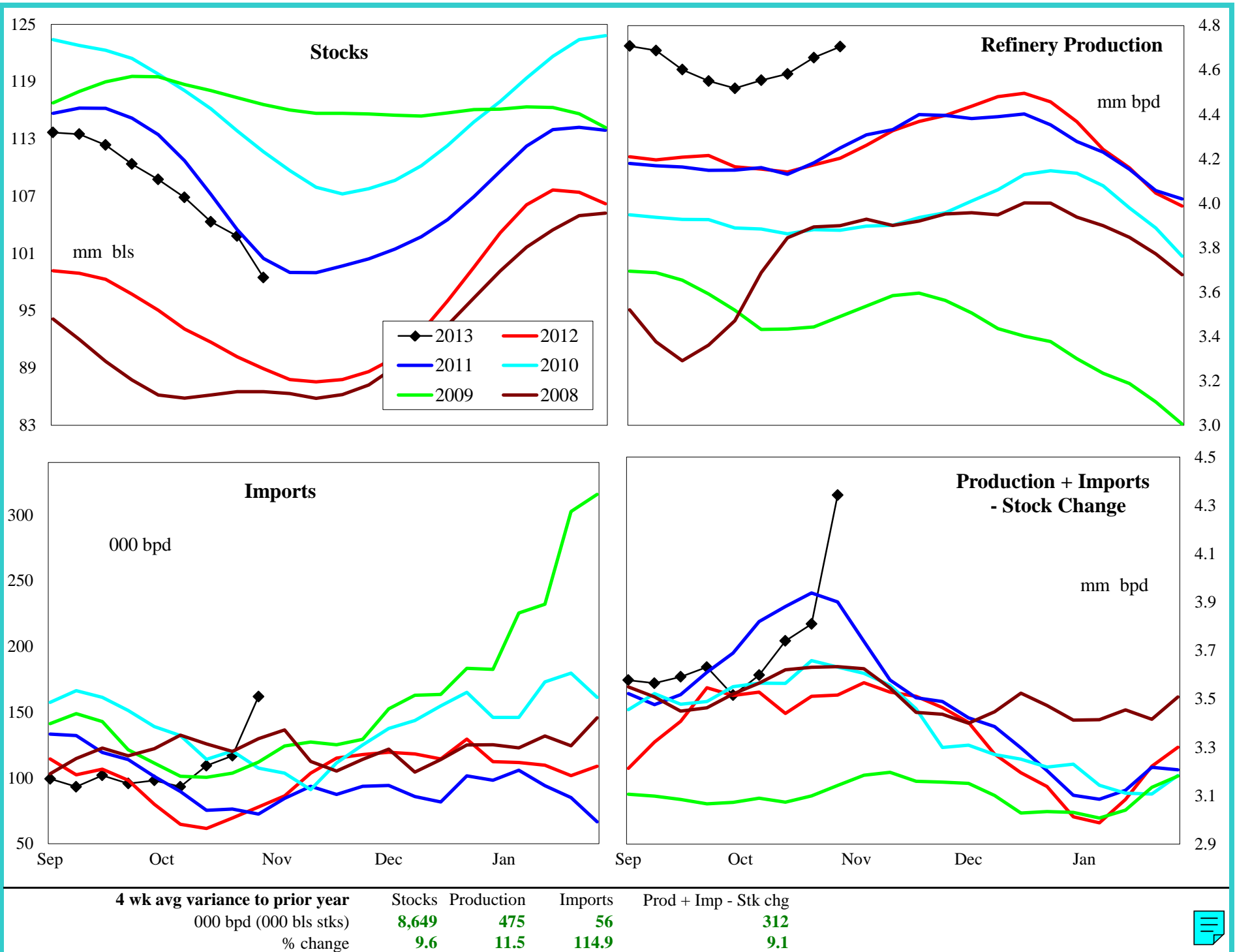
# United States Gasoline Imports by Type



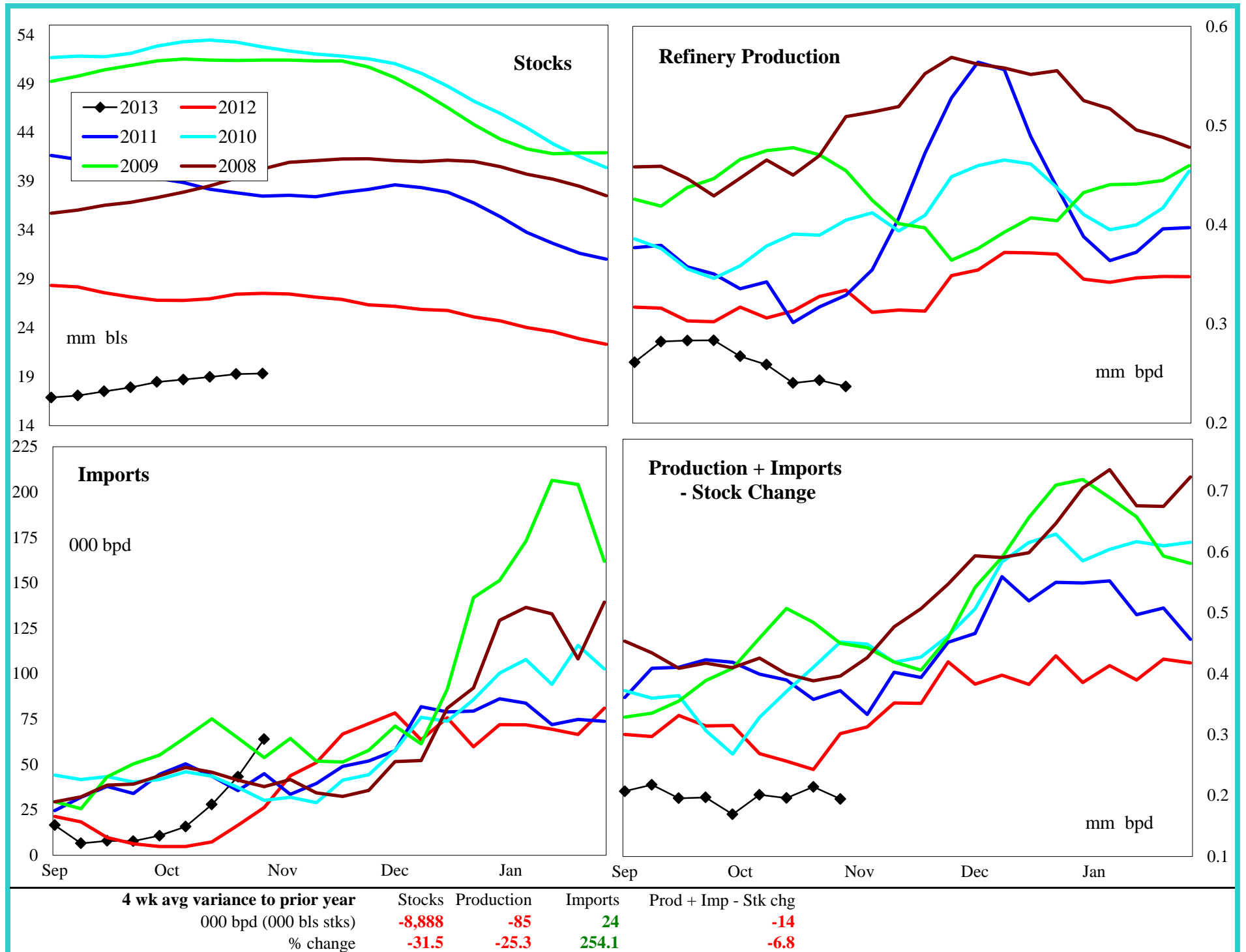
# United States Distillate Supply and Demand Balance



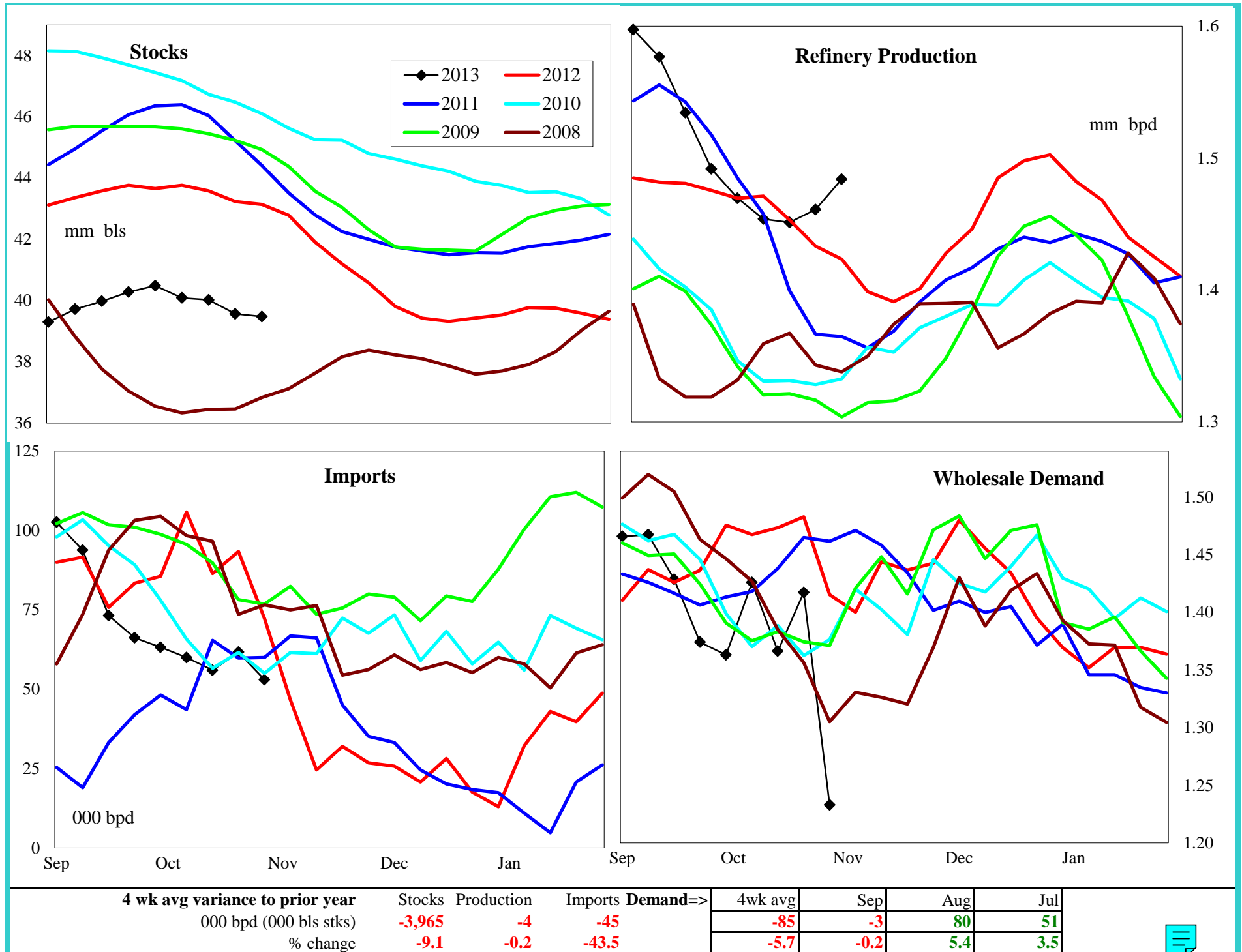
# United States Low Sulfur Distillate Supply



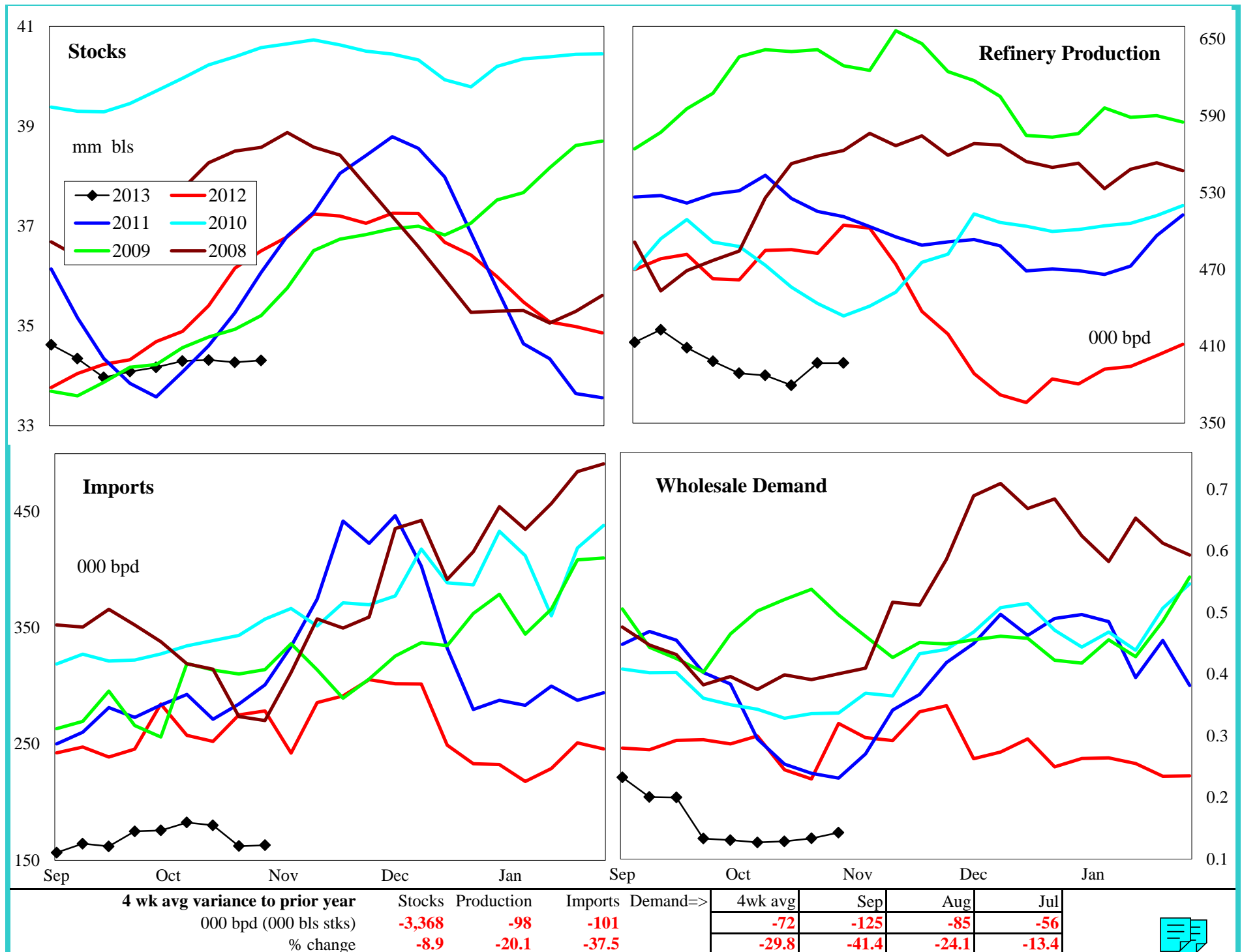
# United States High Sulfur Distillate Supply



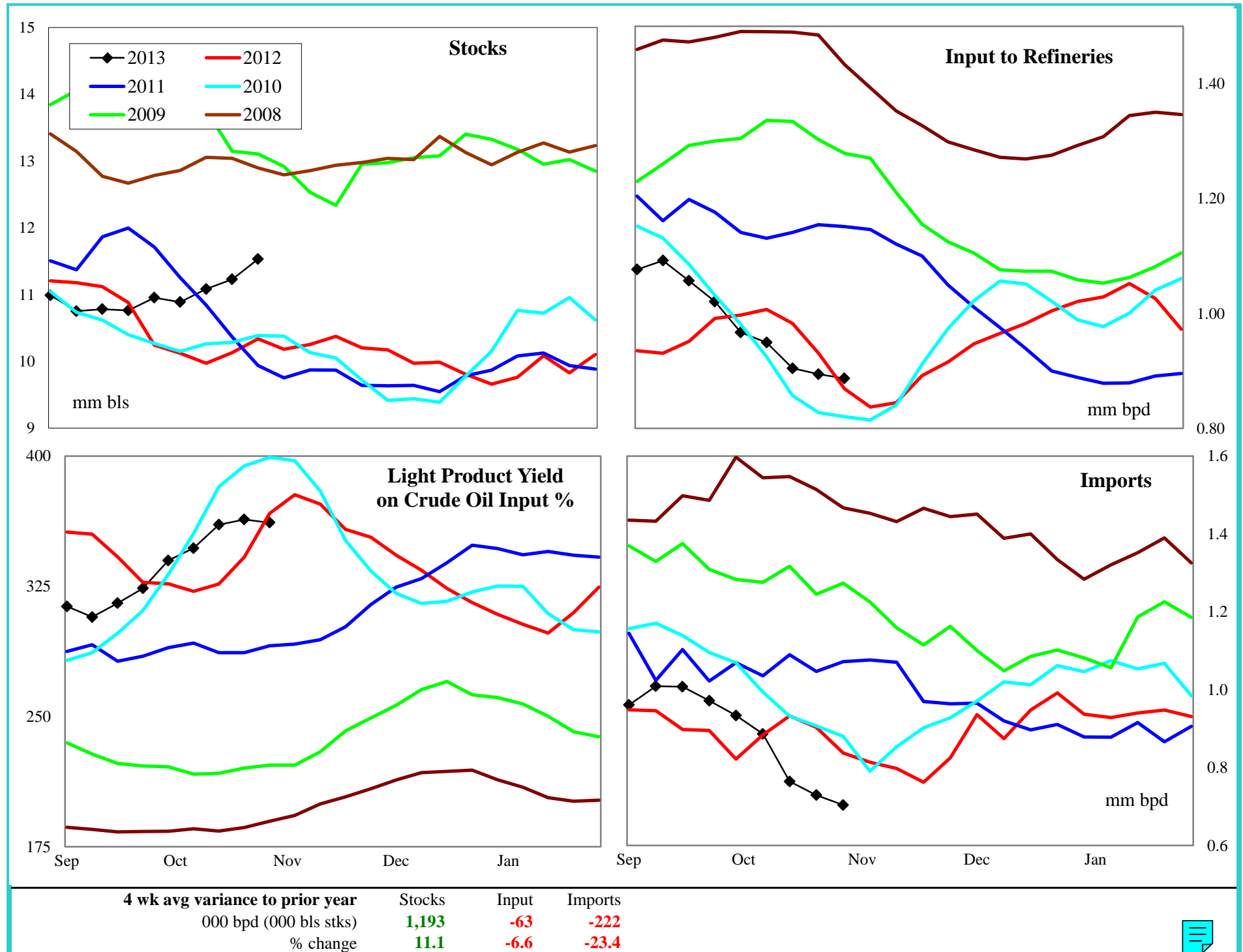
# United States Jet Fuel Supply and Demand Balance



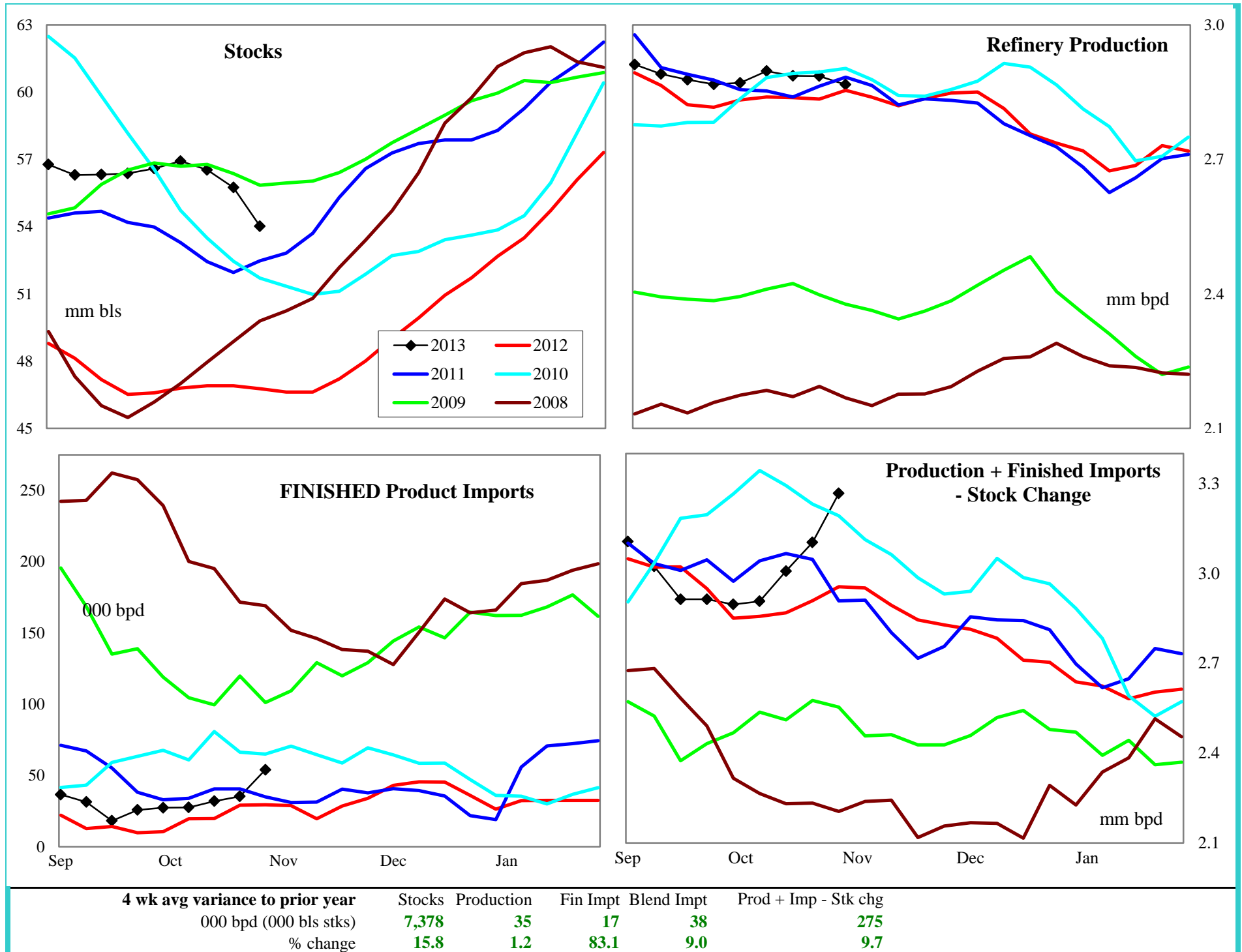
# United States Residual Fuel Oil Supply and Demand Balance



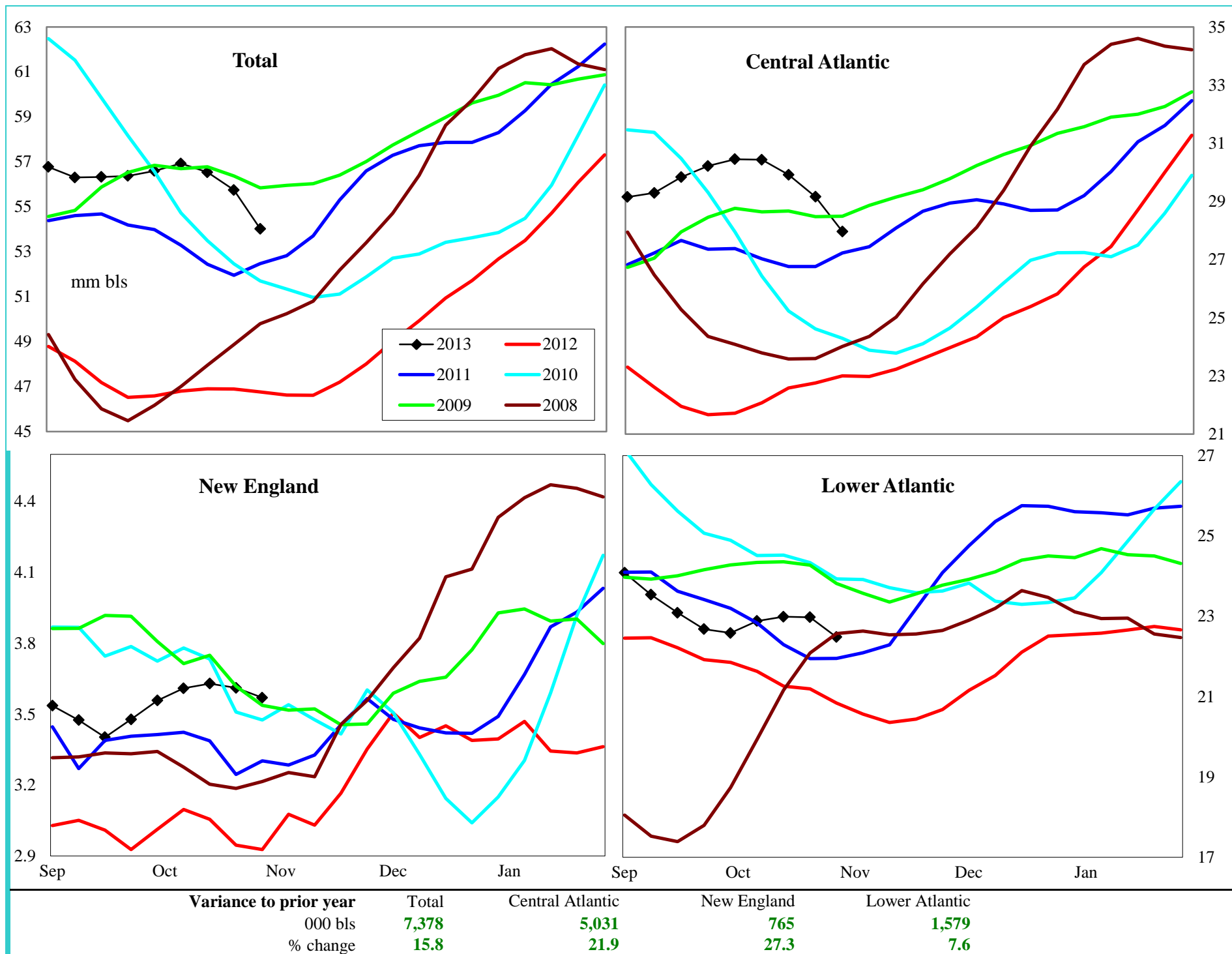
# PADD 1 Crude Oil Supply and Refining



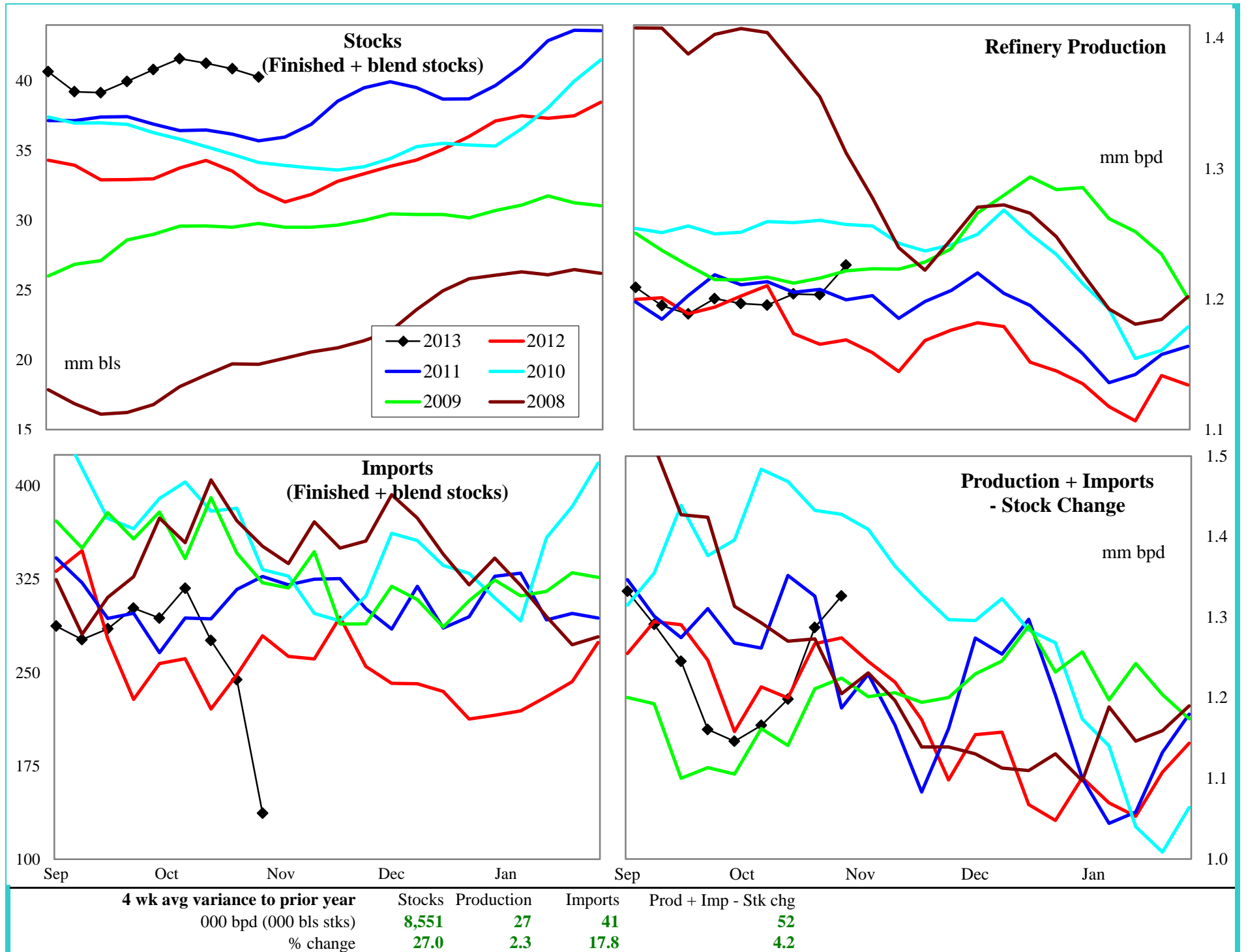
## PADD 1 Gasoline Supply



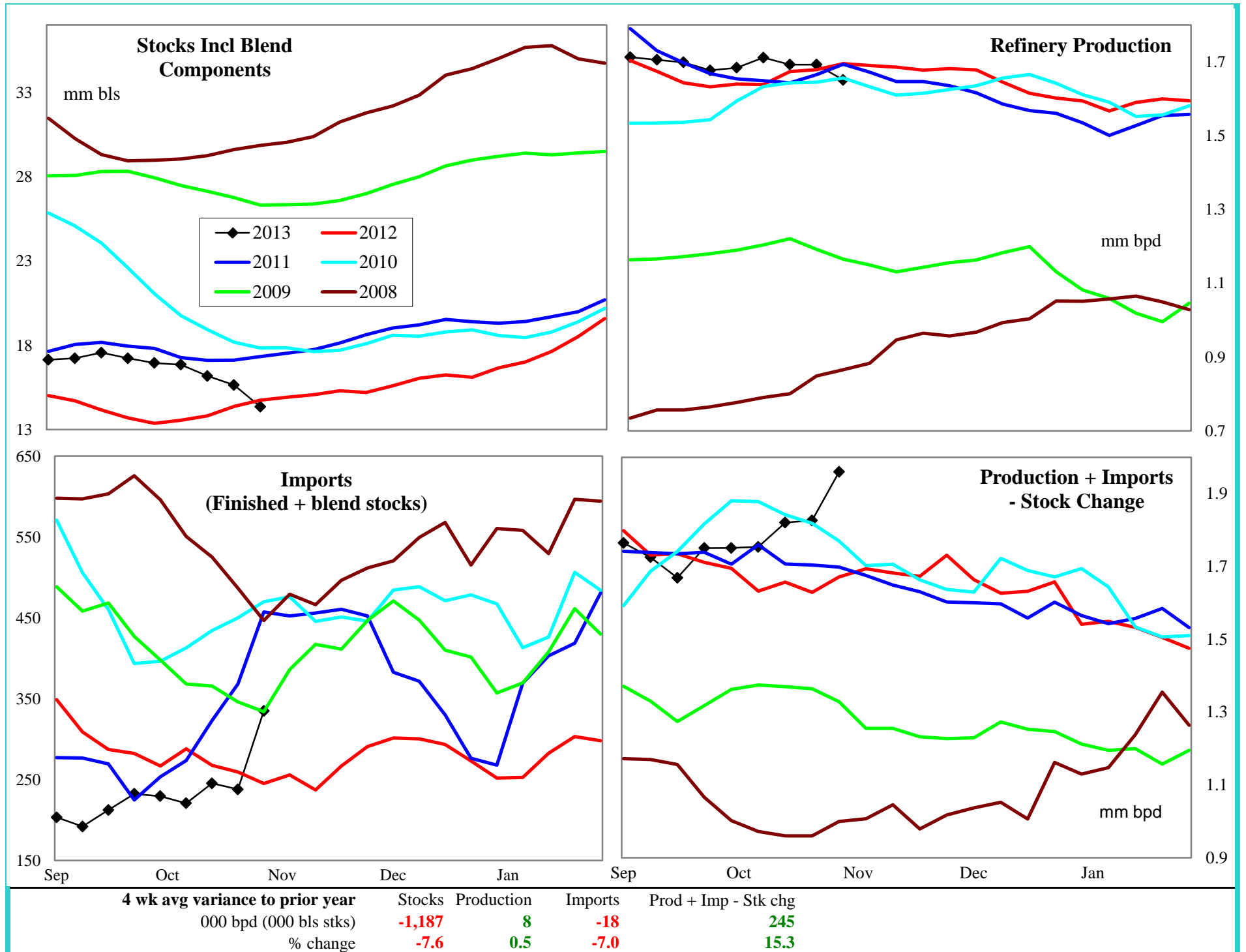
# PADD 1 Gasoline Stocks by Region



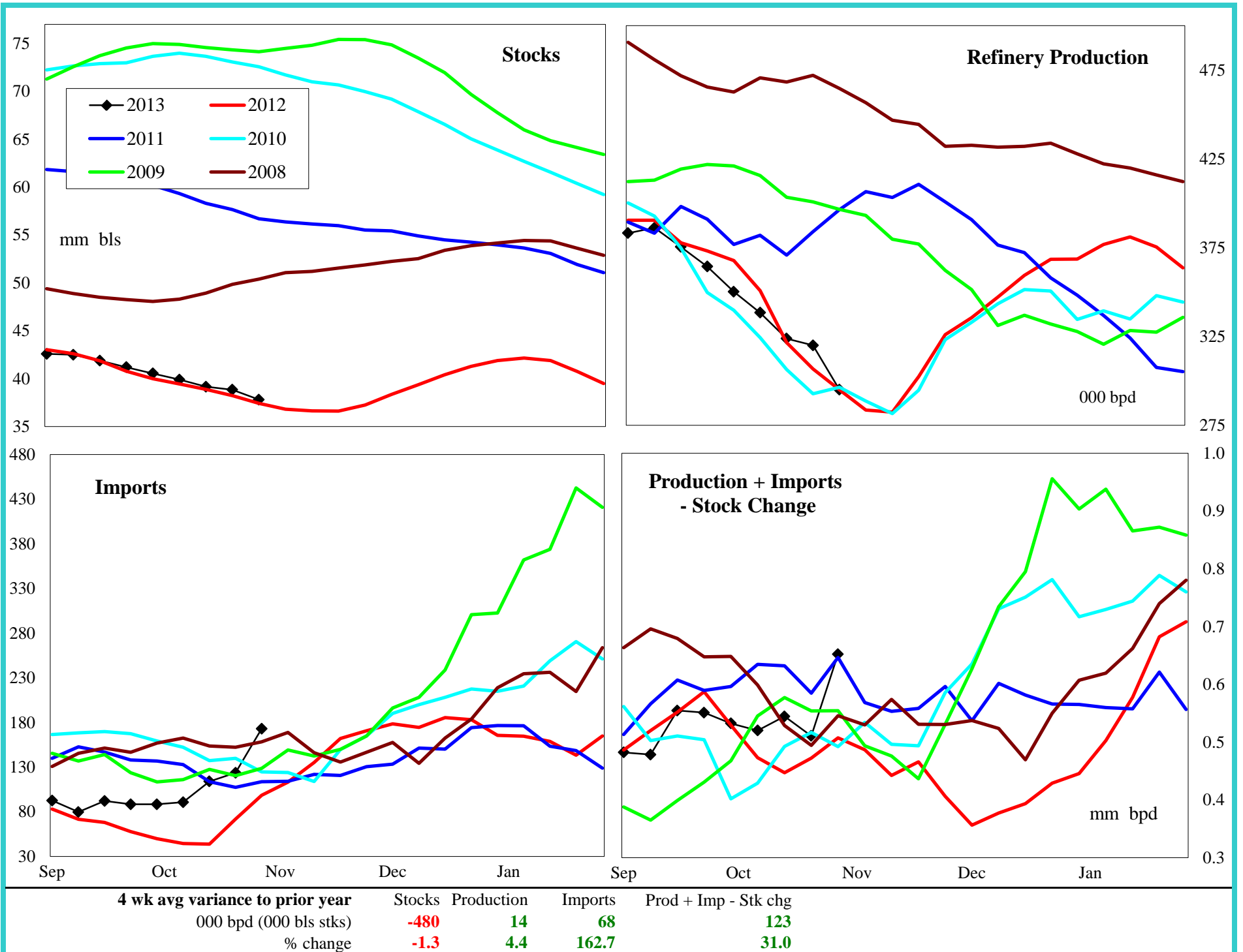
# PADD 1 Reformulated Gasoline Supply



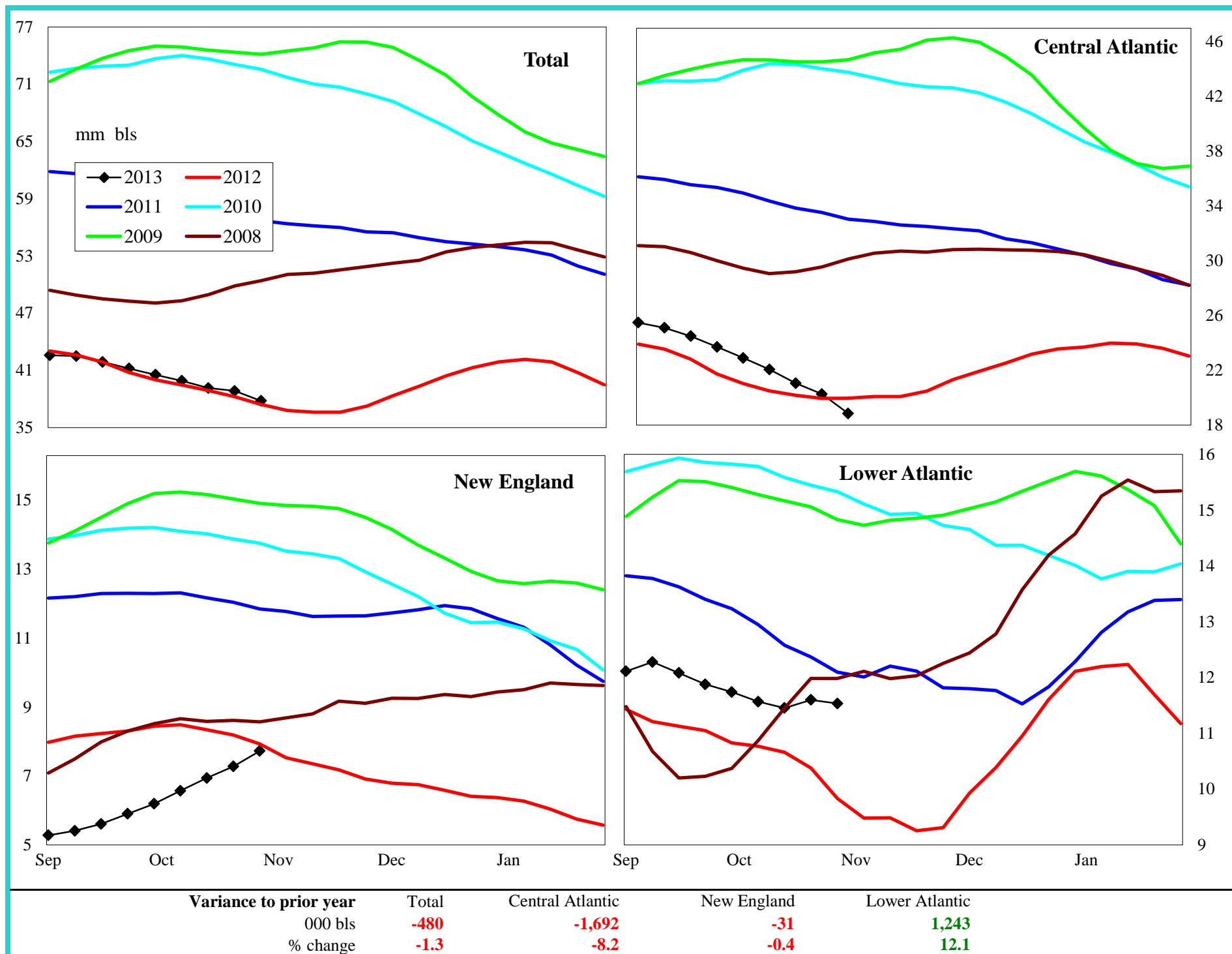
# PADD 1 Conventional Gasoline Supply



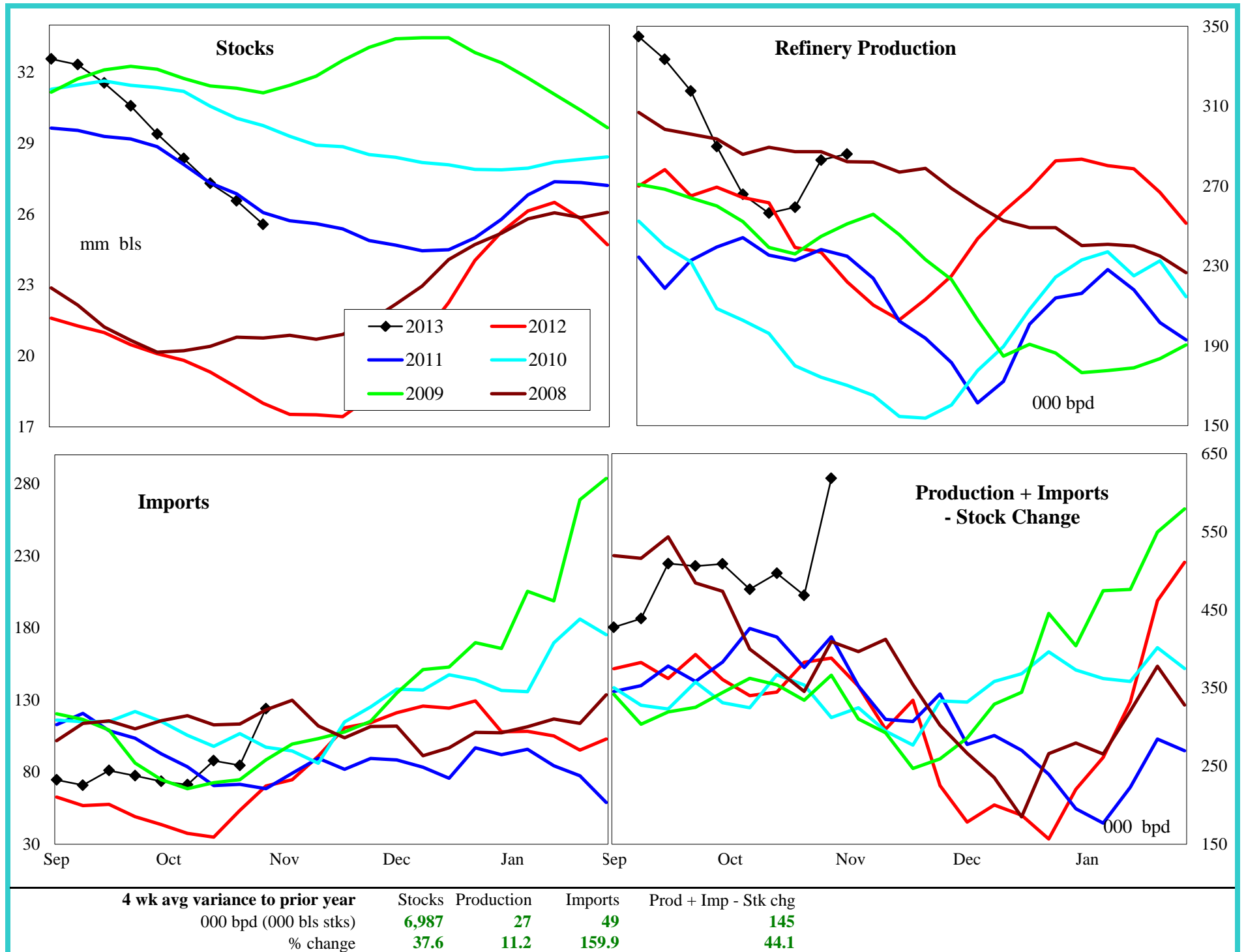
# PADD 1 Distillate Supply



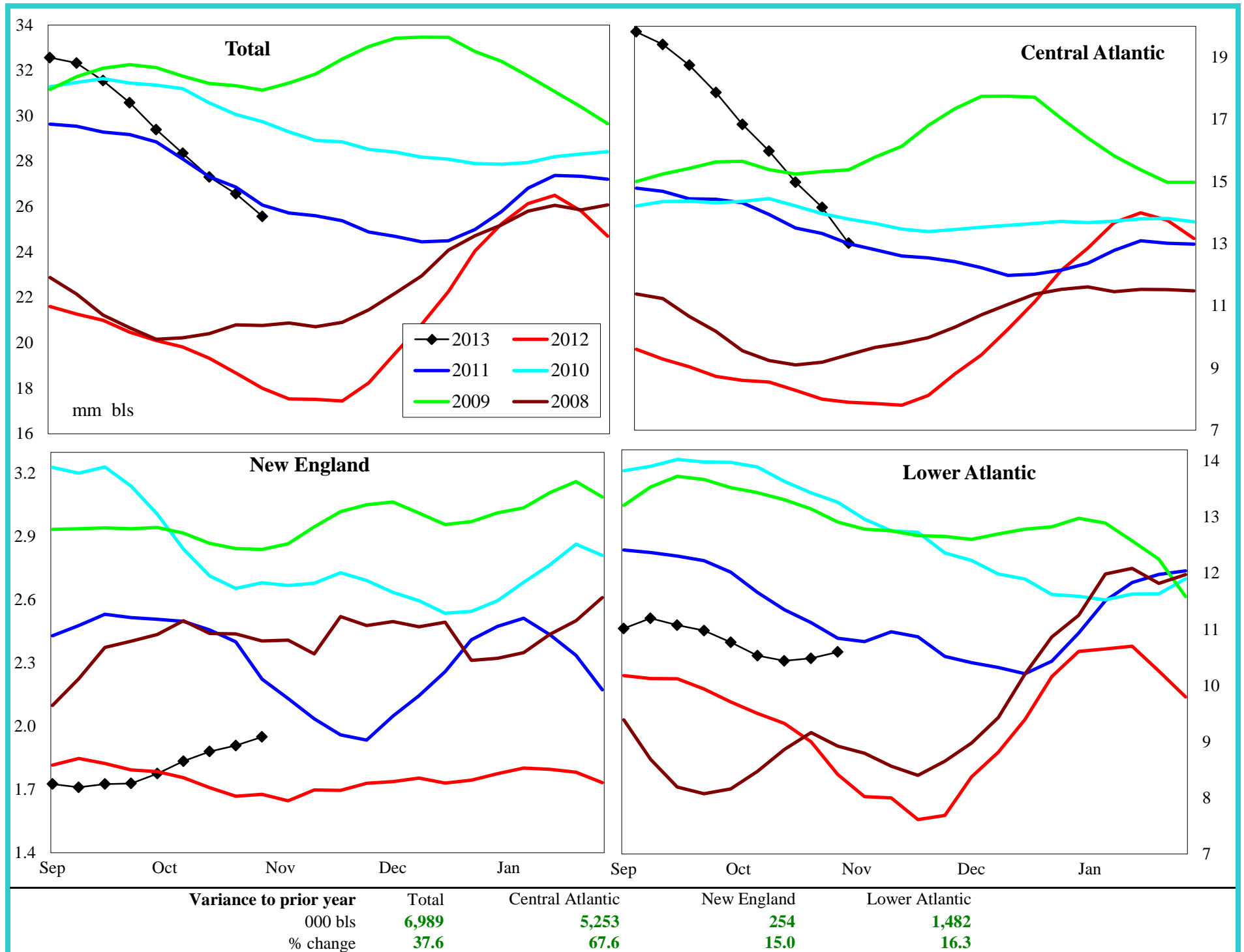
# PADD 1 Distillate Stocks by Region



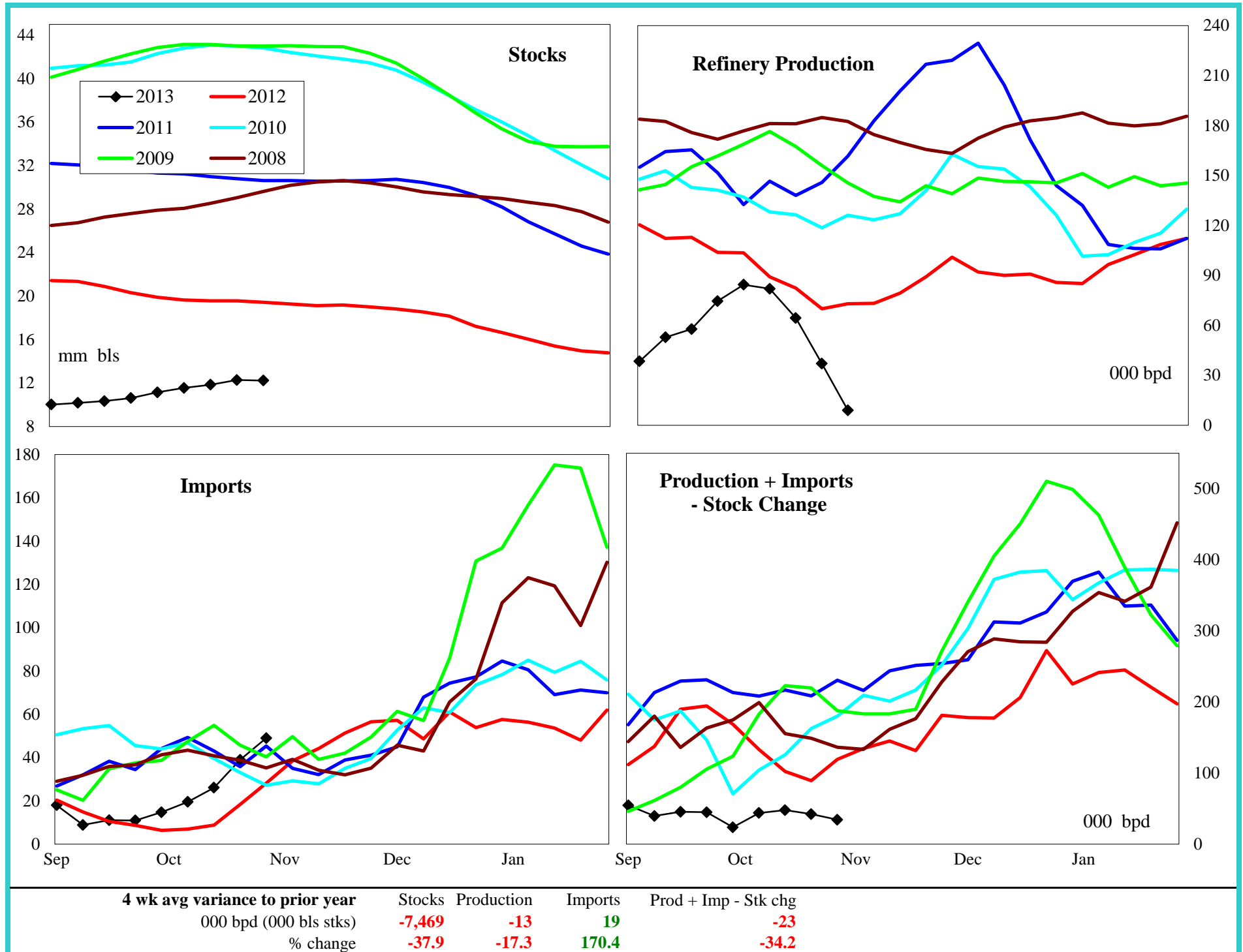
# PADD 1 Low Sulfur Distillate Supply



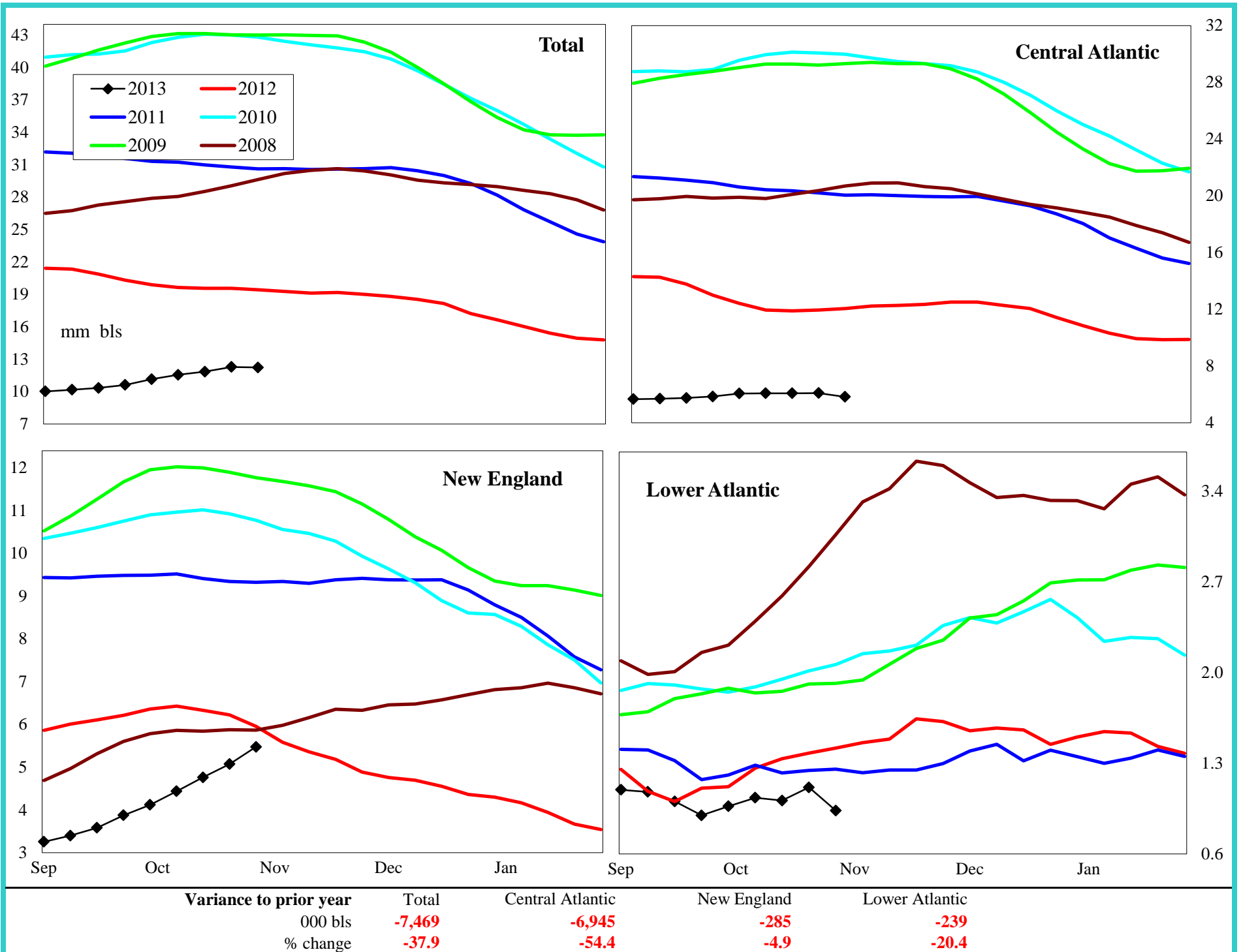
# PADD 1 Low Sulfur Distillate Stocks by Region



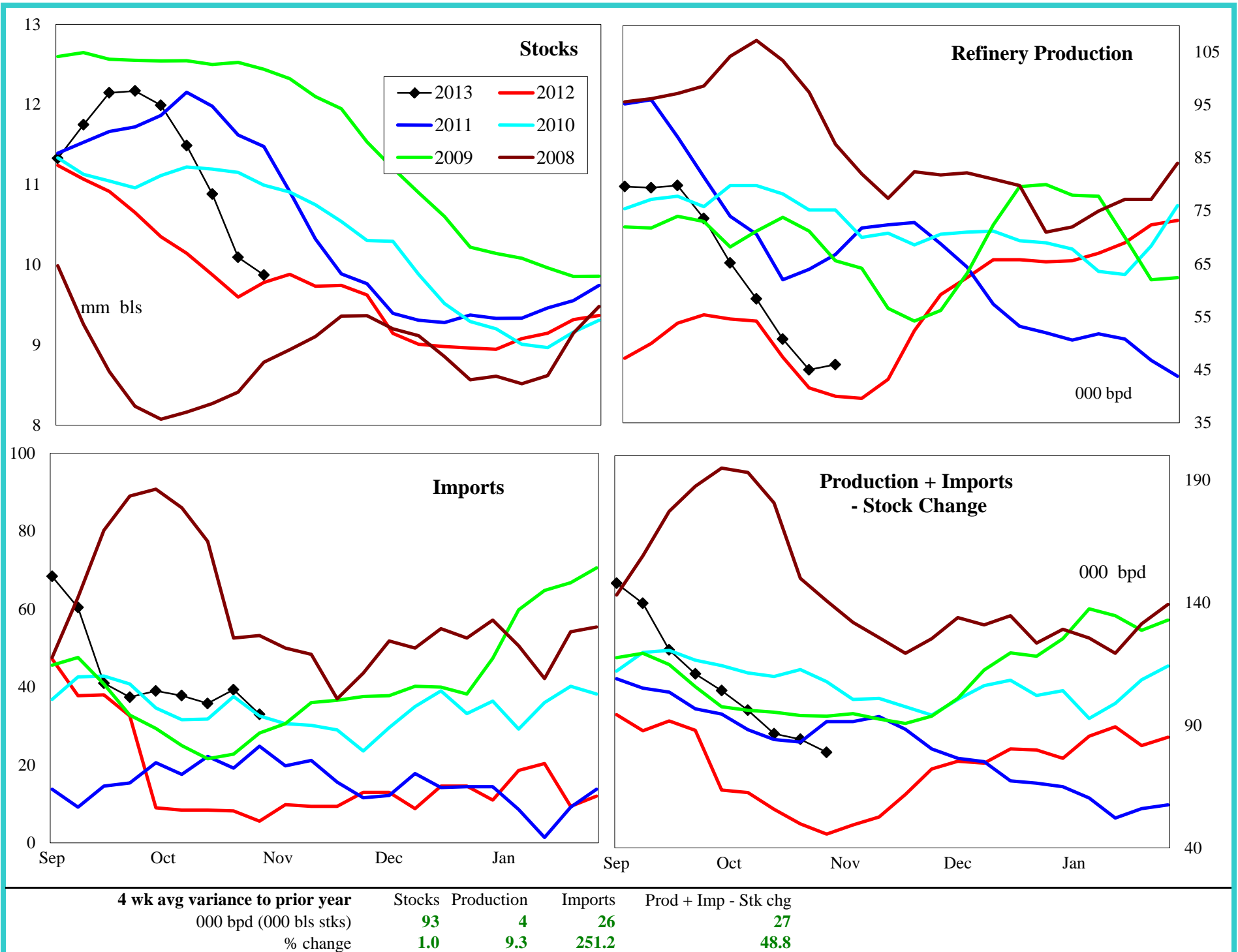
# PADD 1 High Sulfur Distillate Supply



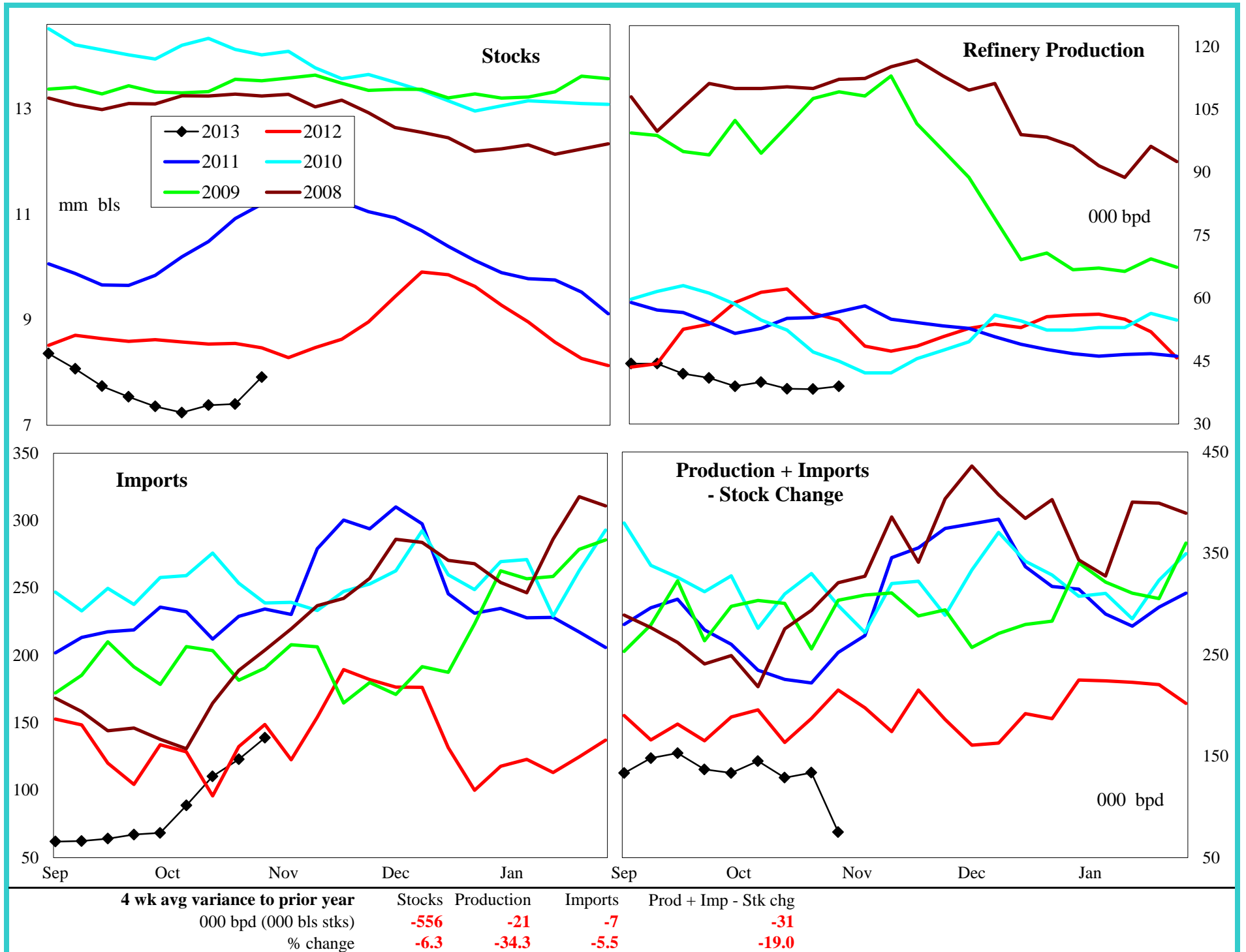
# PADD 1 High Sulfur Distillate Stocks by Region



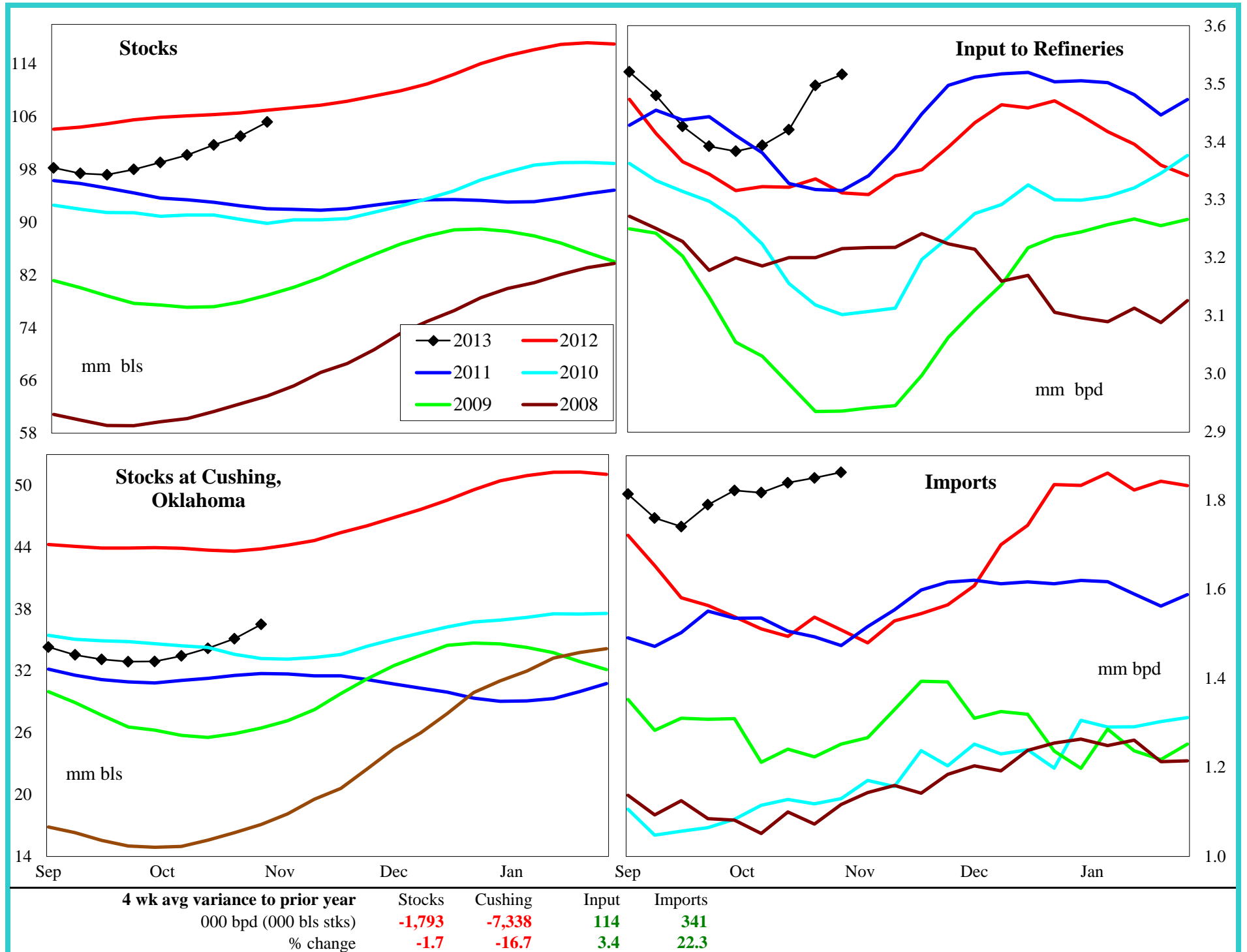
# PADD 1 Jet Fuel Supply



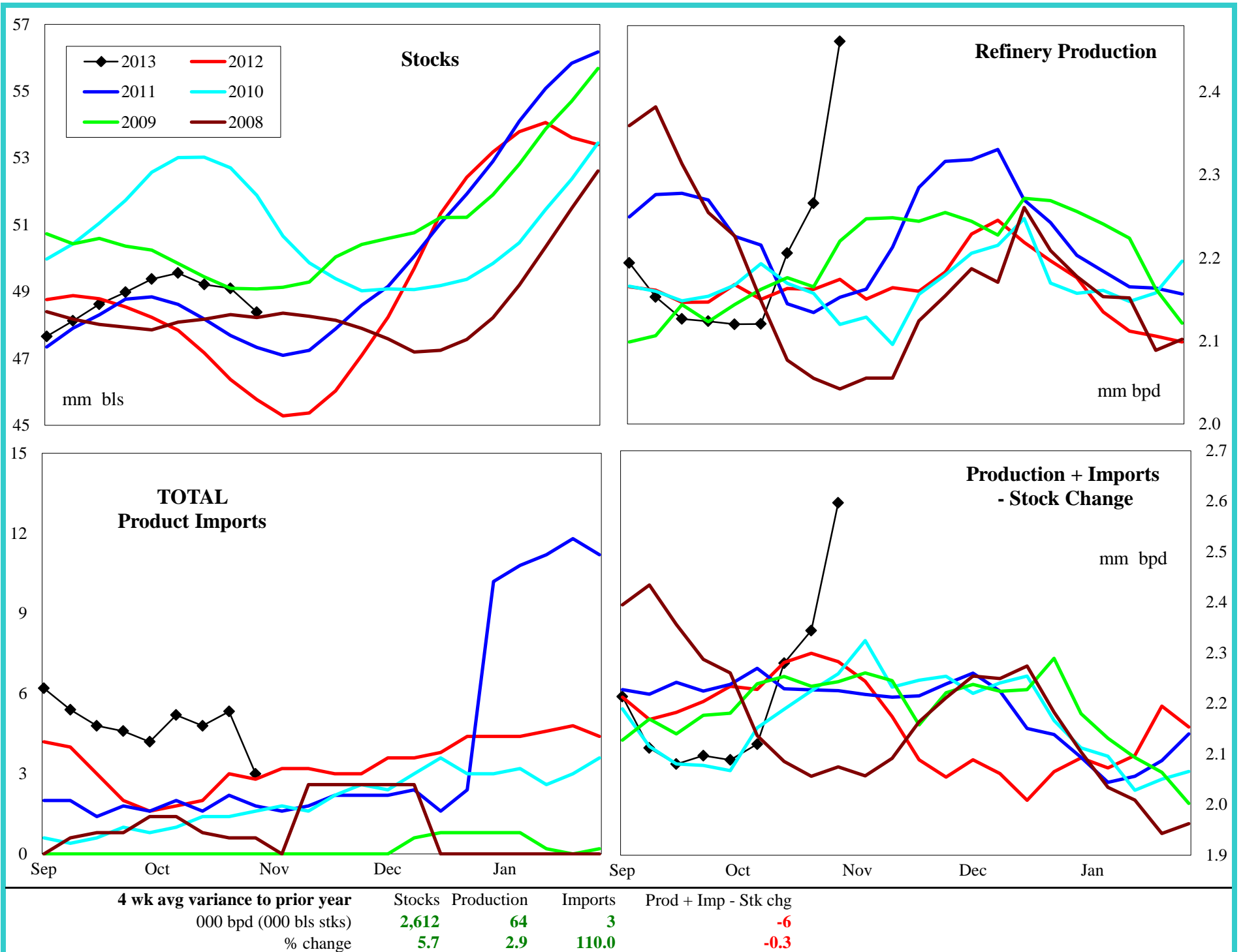
# PADD 1 Residual Fuel Oil Supply



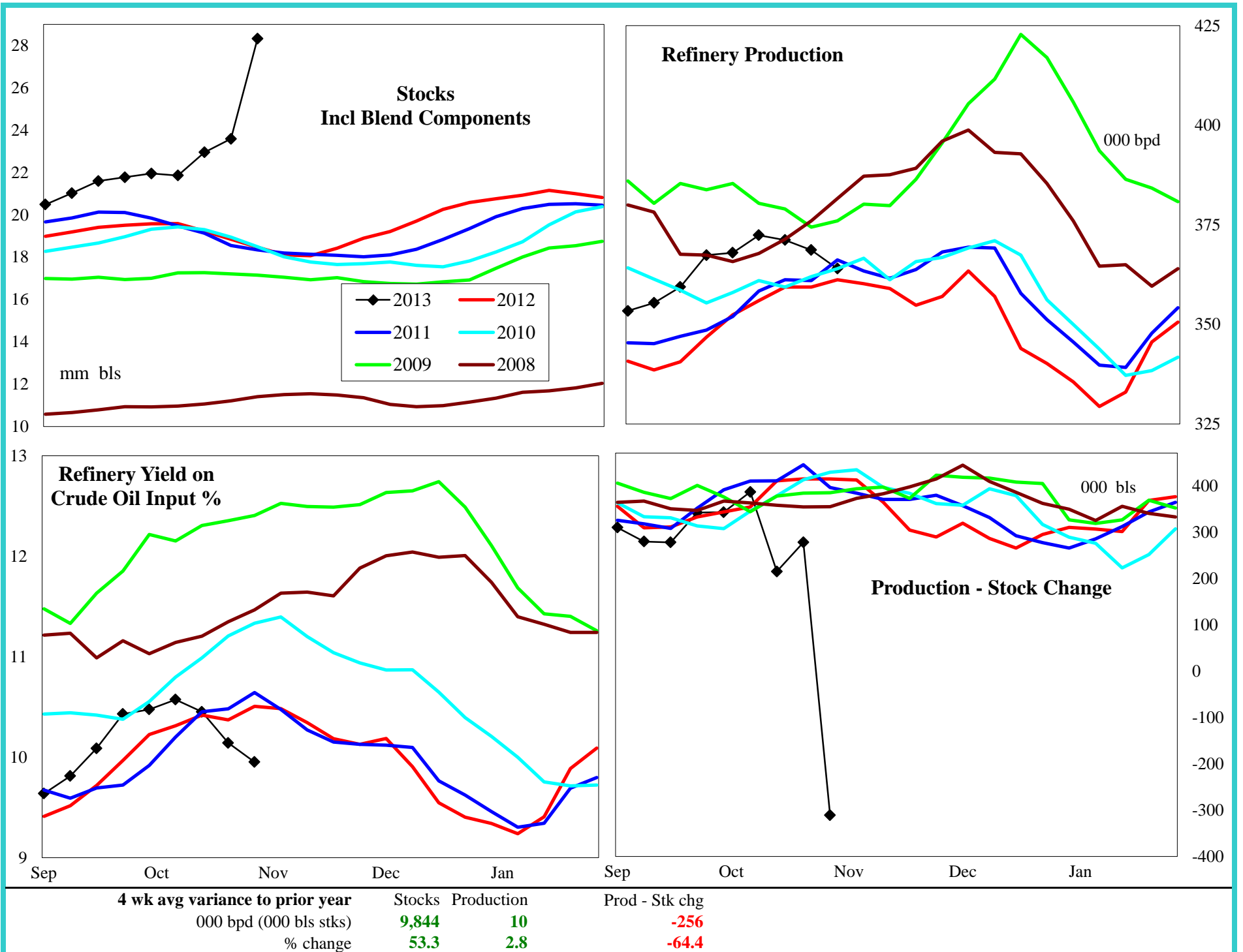
# PADD 2 Crude Oil Supply and Refining



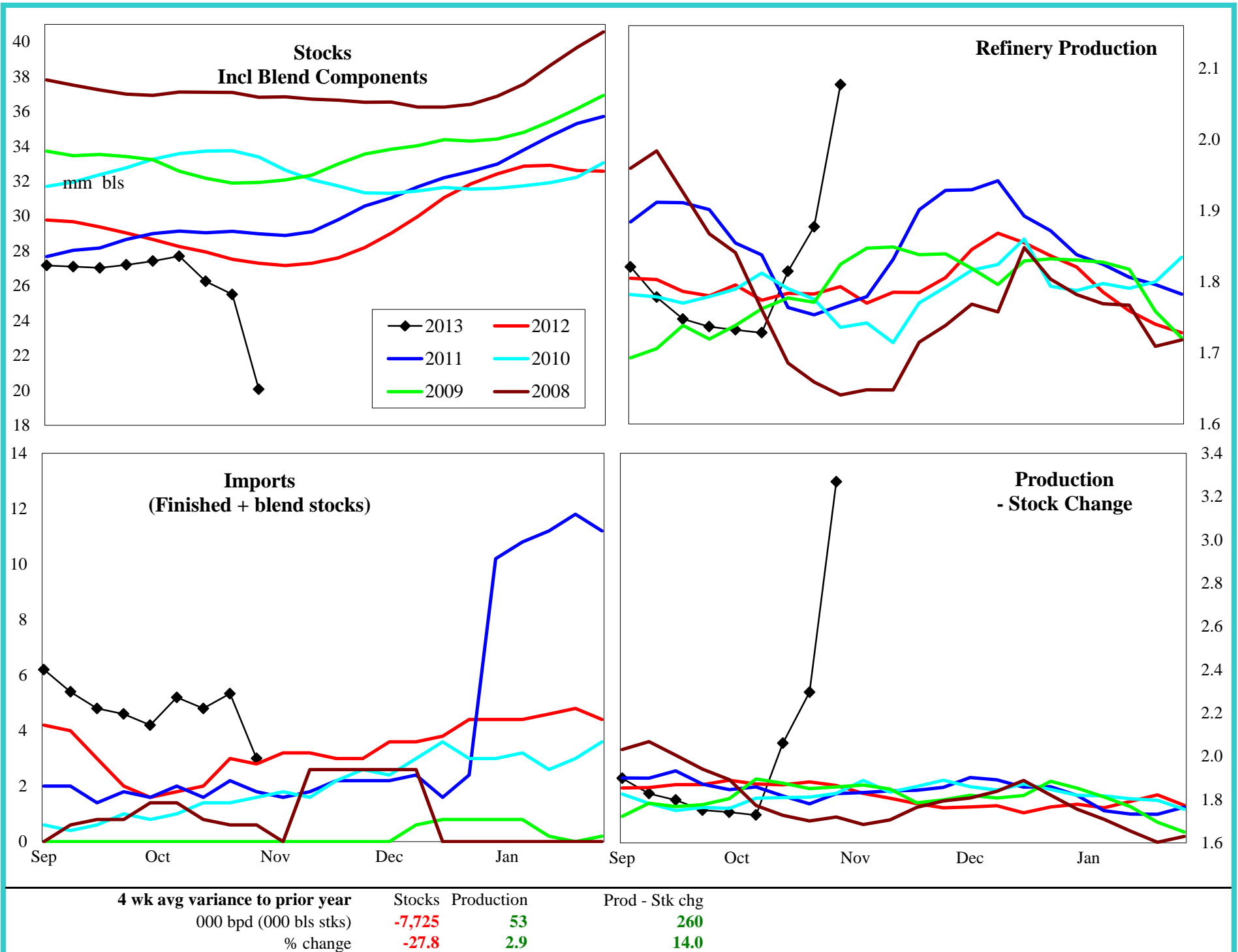
# PADD 2 Gasoline Supply



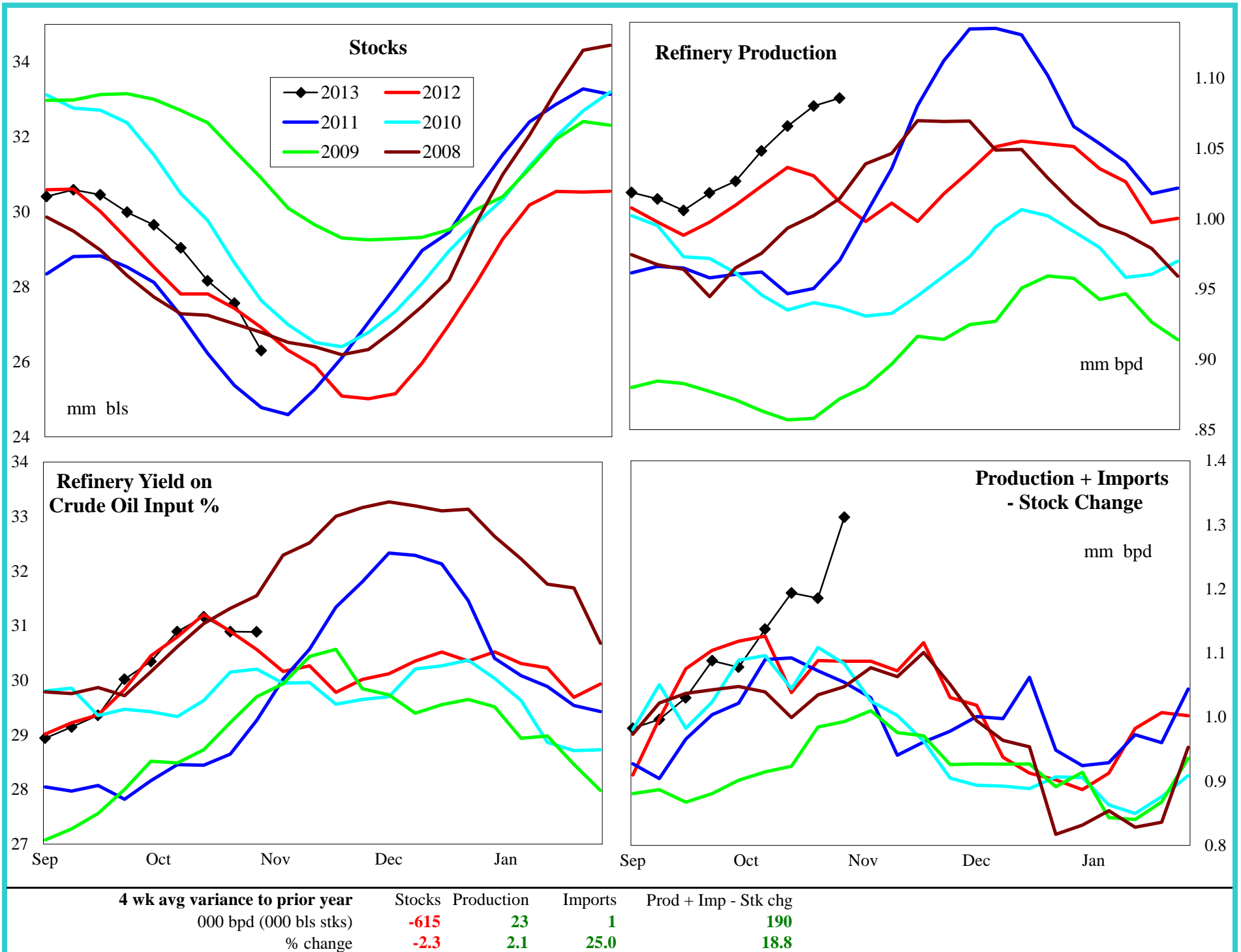
## PADD 2 Reformulated Gasoline Supply



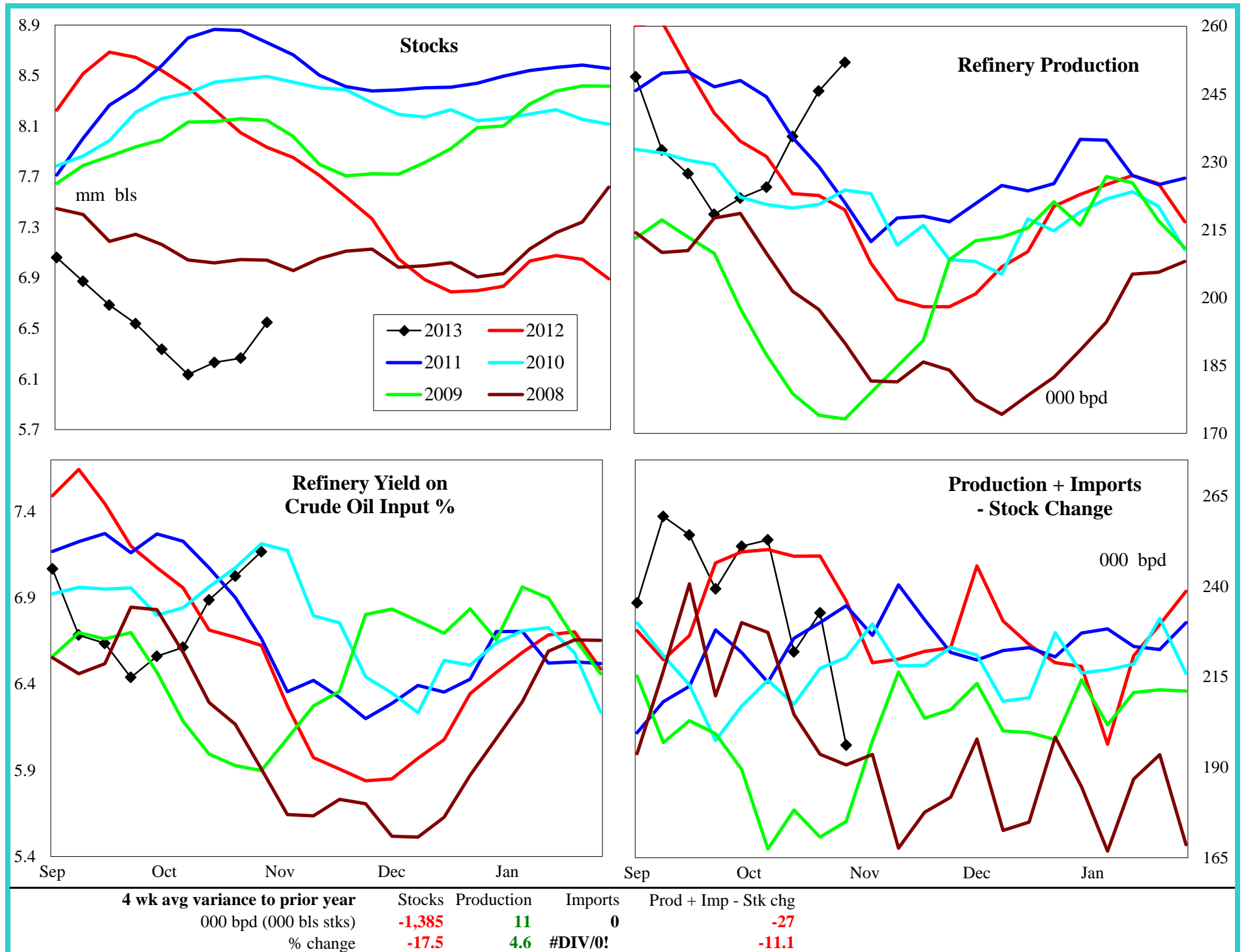
# PADD 2 Conventional Gasoline Supply



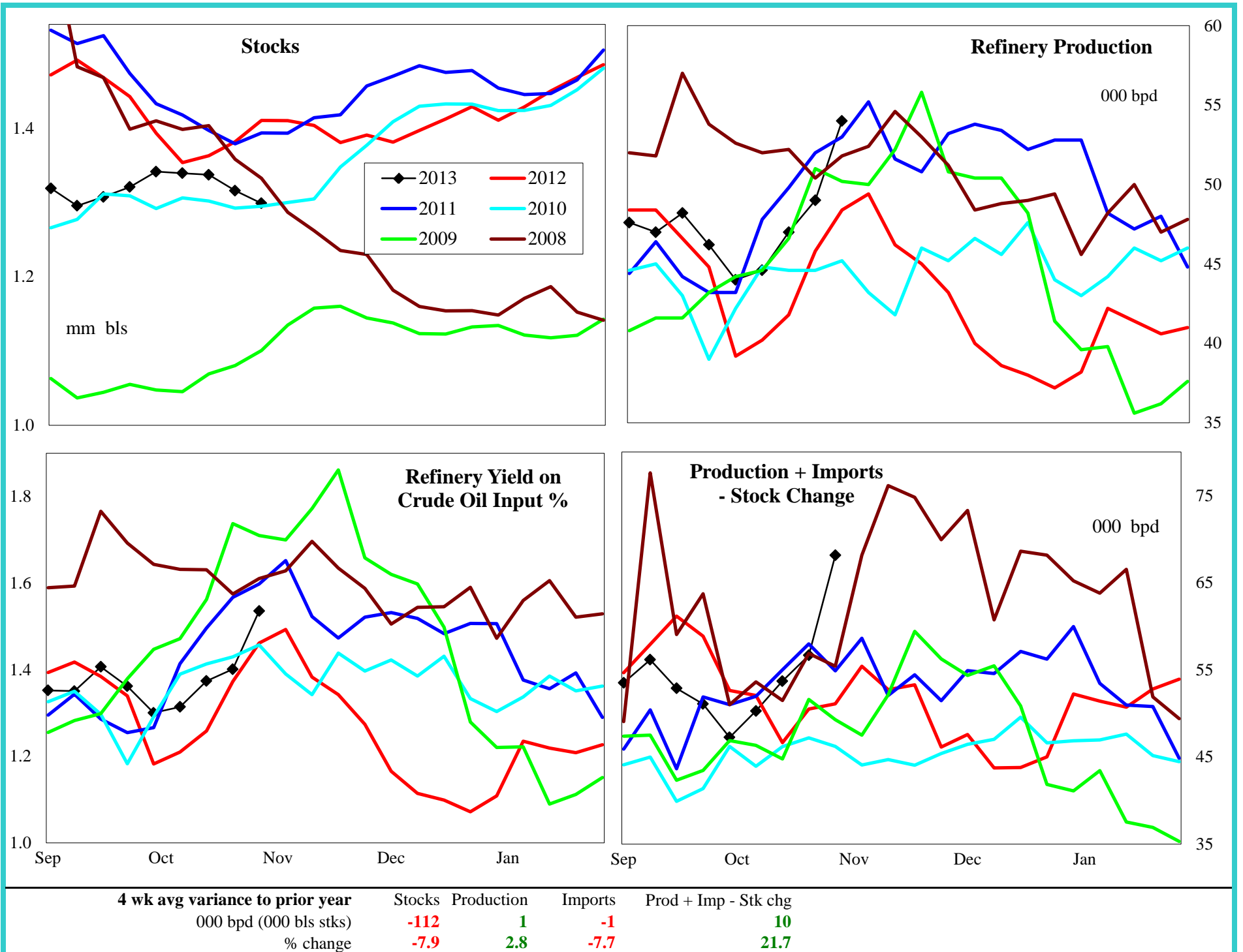
# PADD 2 Distillate Supply



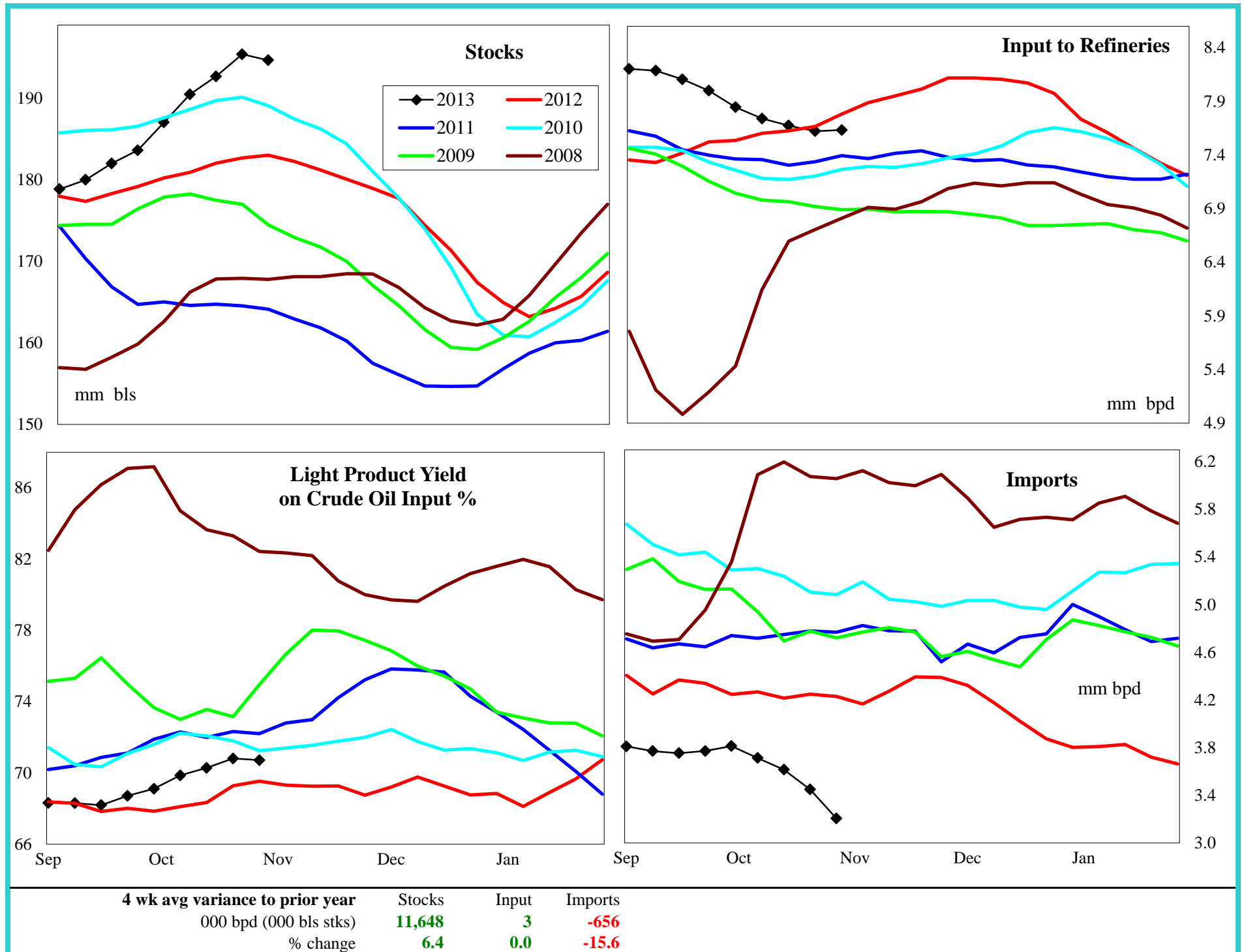
## PADD 2 Jet Fuel Supply



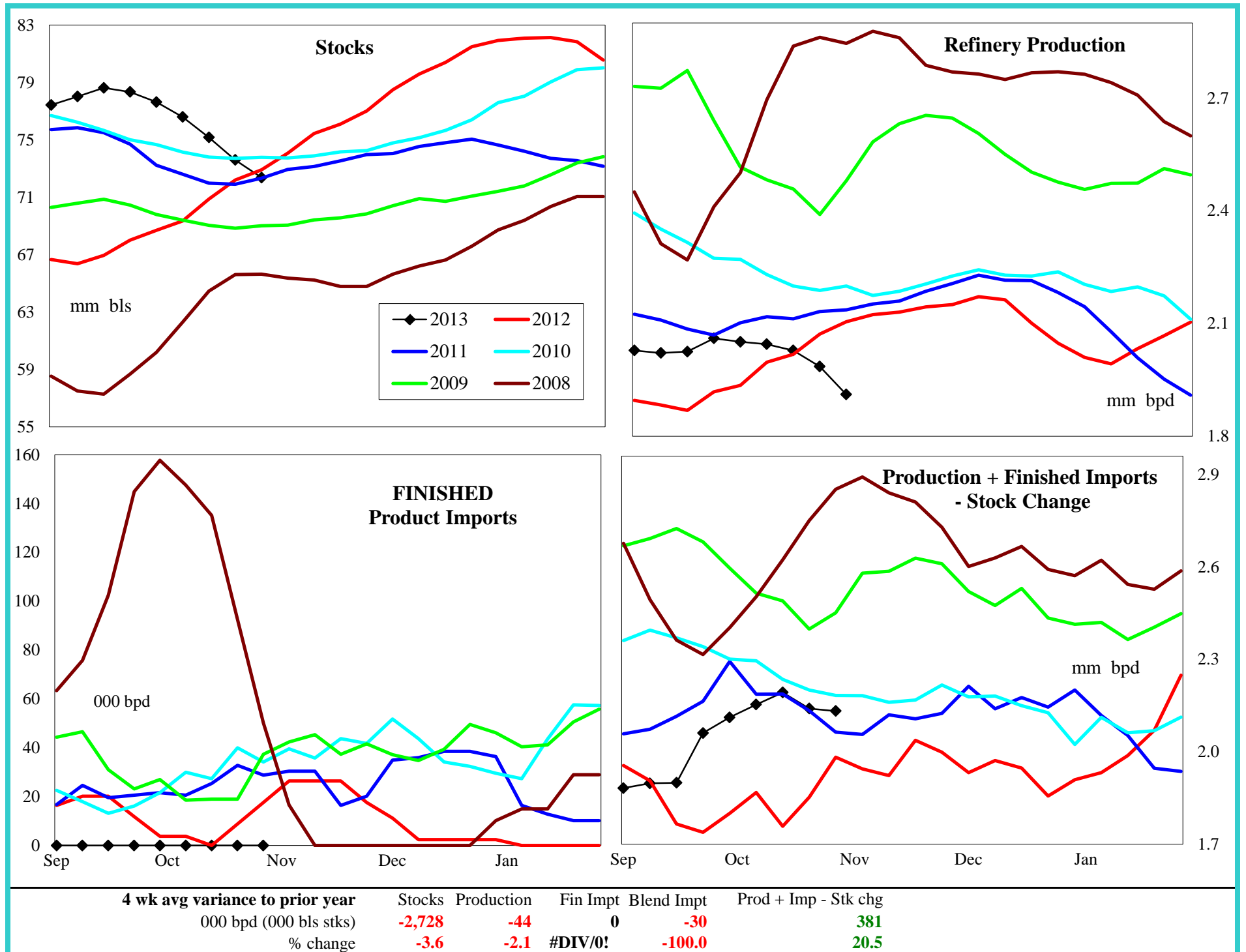
# PADD 2 Residual Fuel Oil Supply



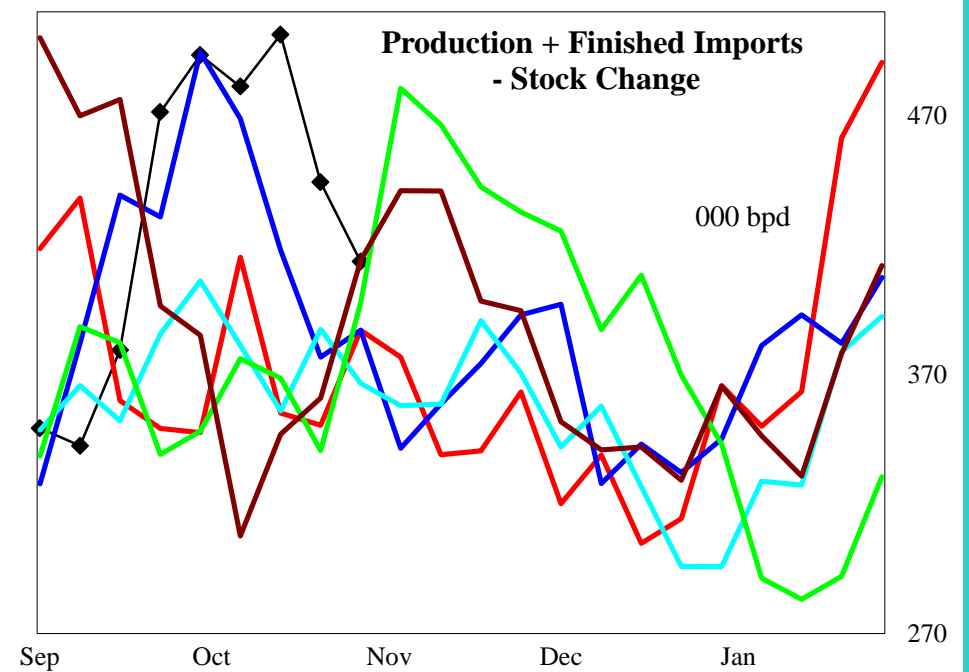
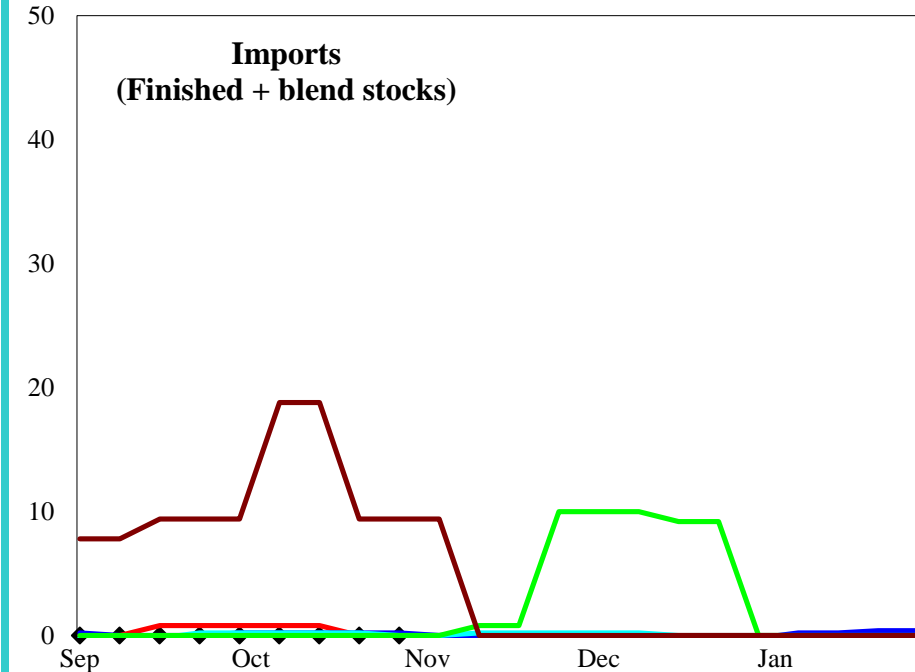
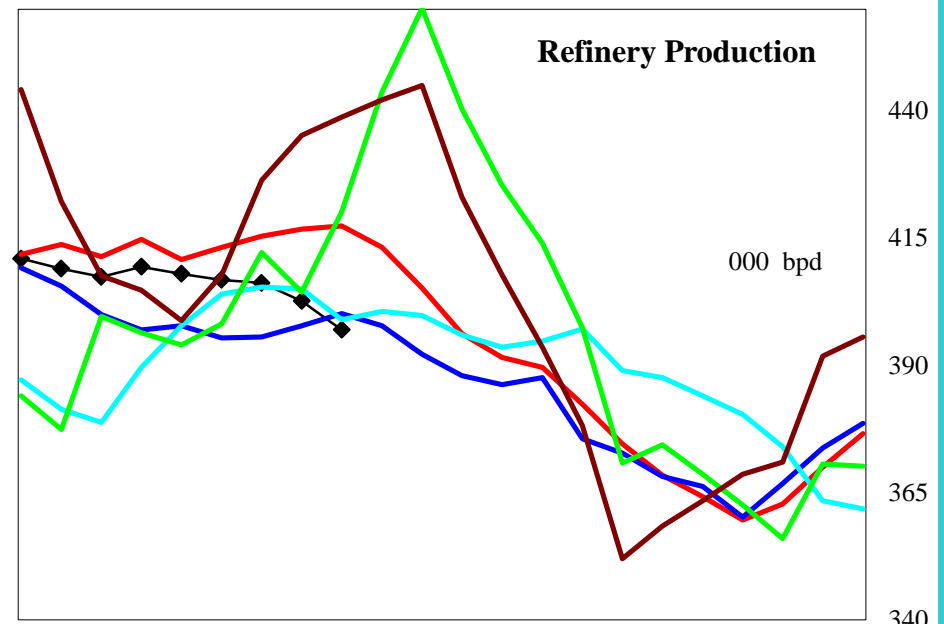
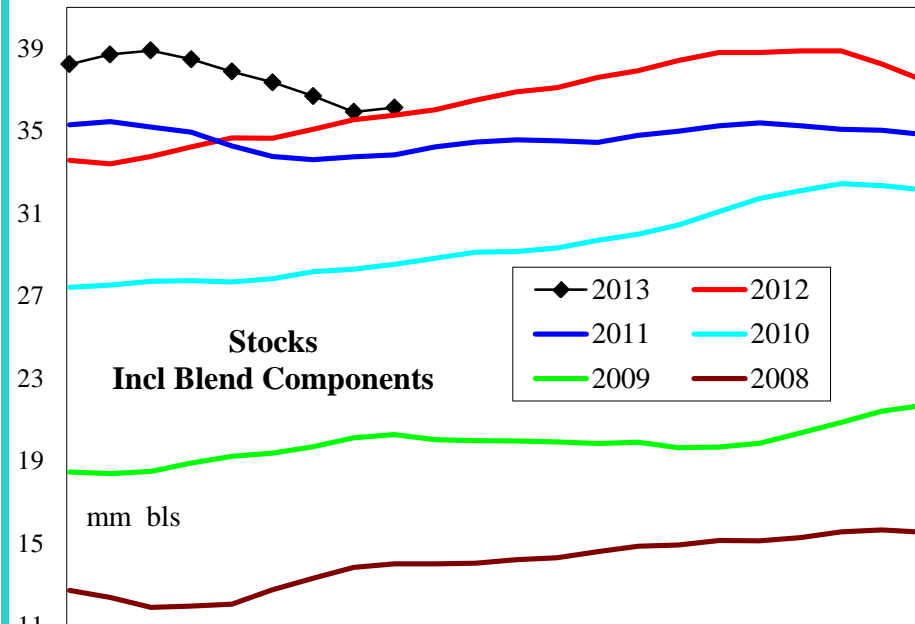
# PADD 3 Crude Oil Supply and Refining



## PADD 3 Gasoline Supply



# PADD 3 Reformulated Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

-329

-11

0

133

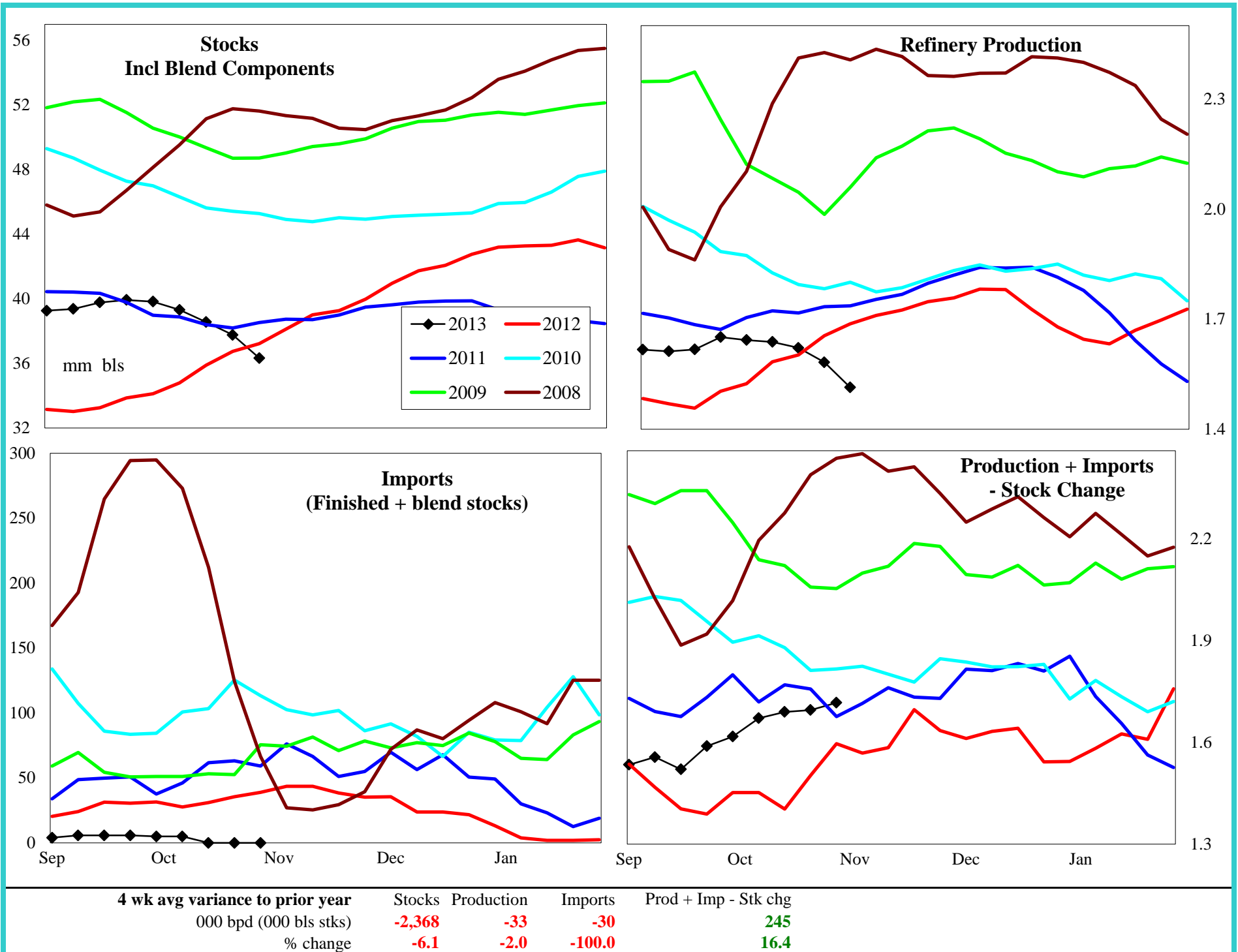
-0.9

-2.6

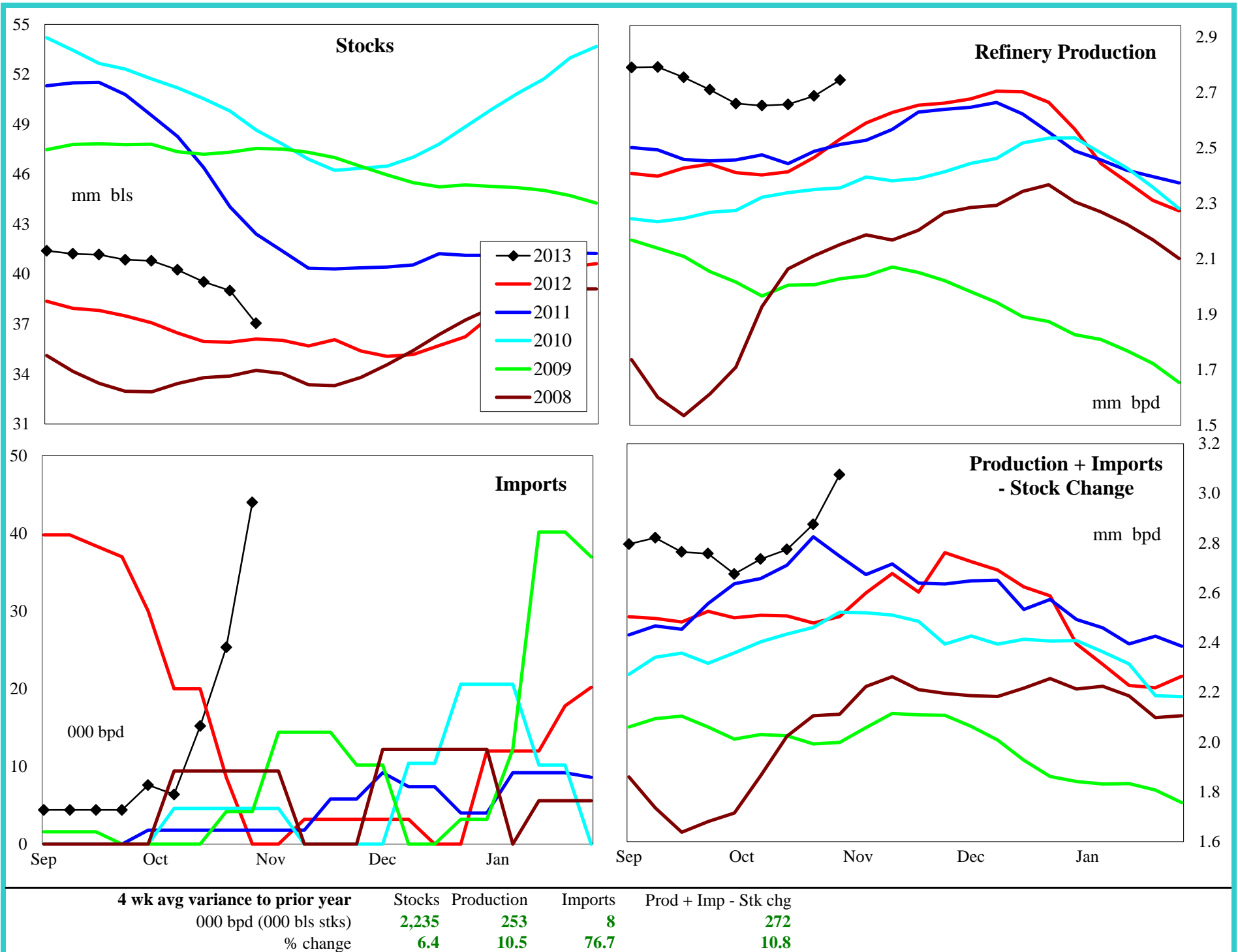
#DIV/0!

36.6

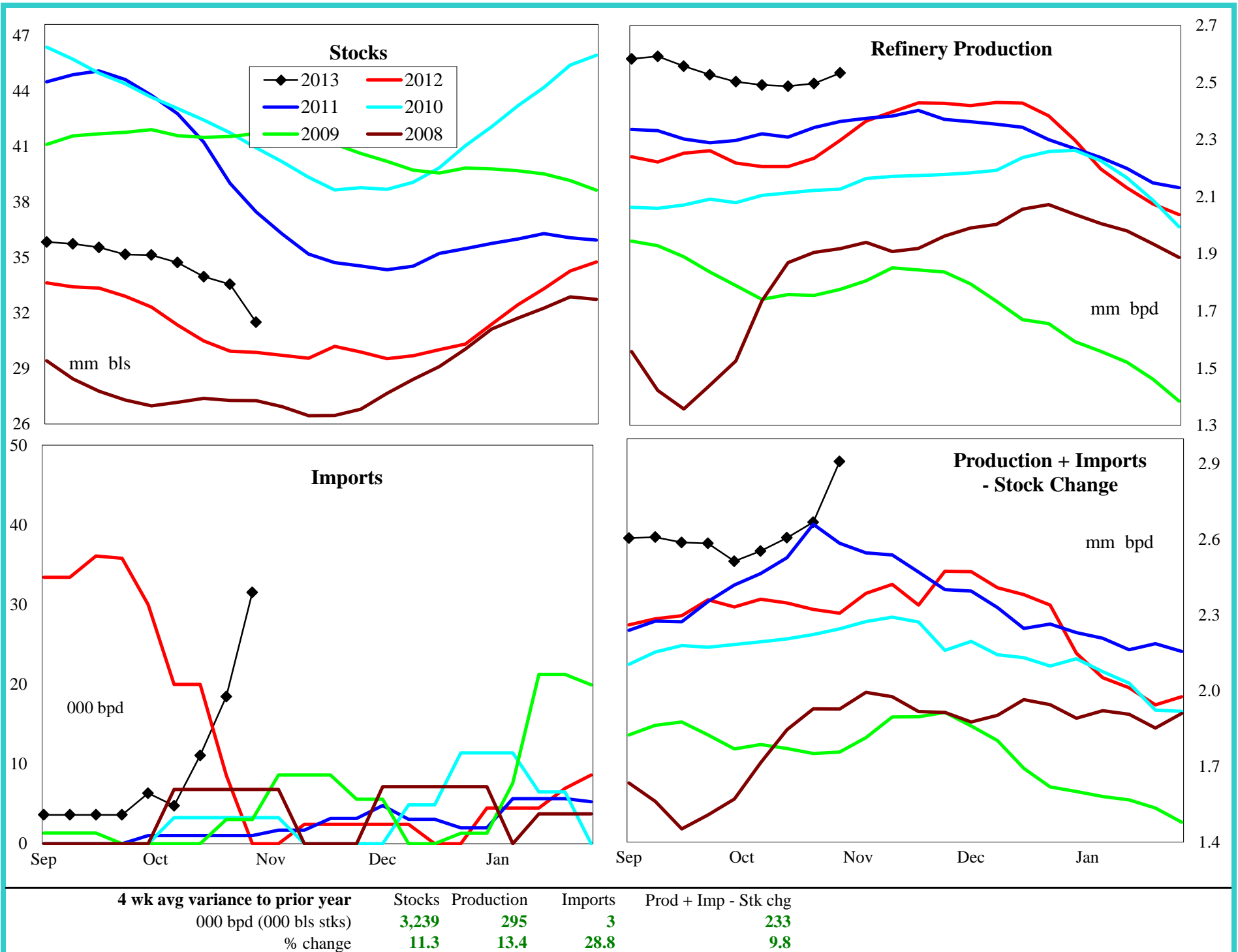
# PADD 3 Conventional Gasoline Supply



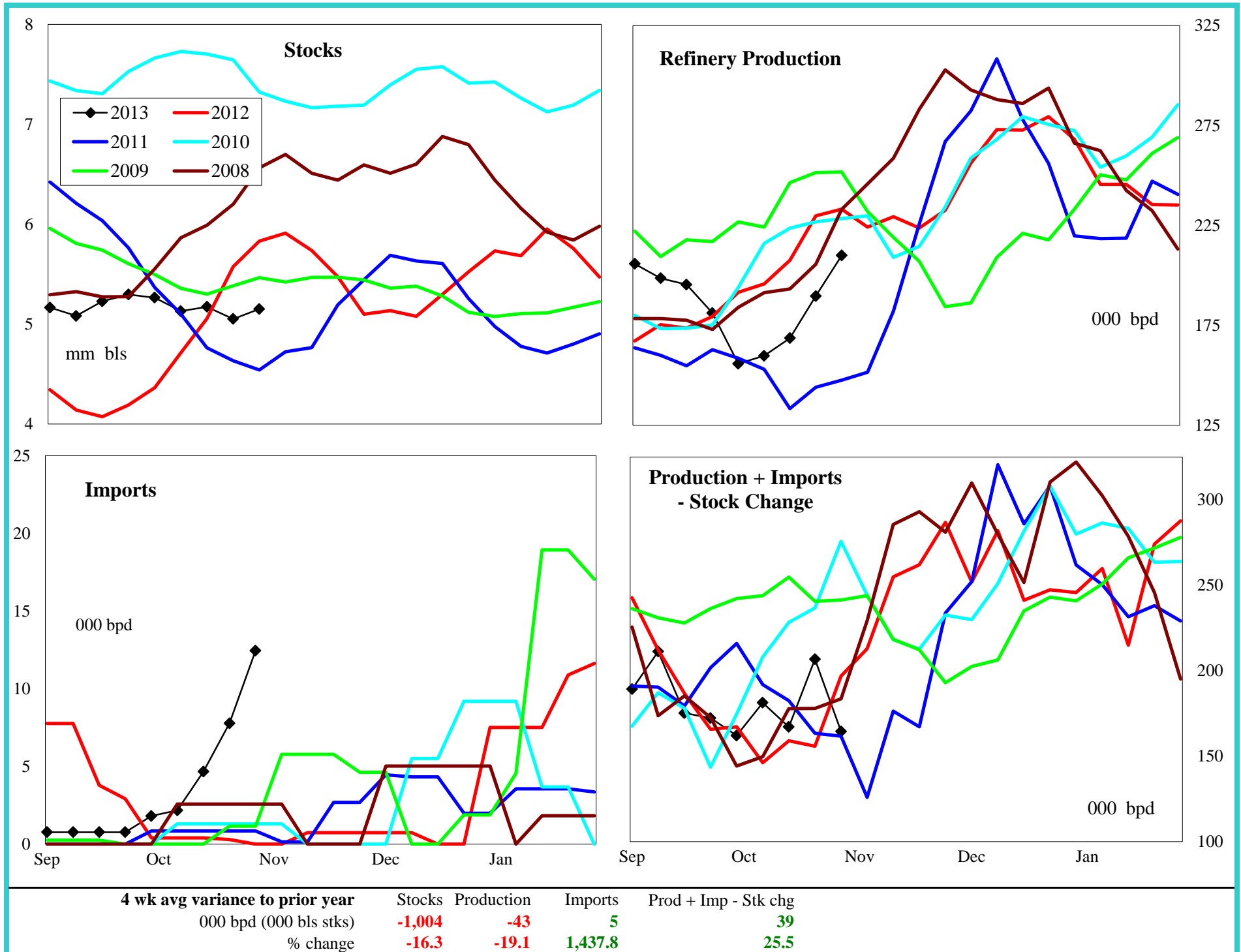
# PADD 3 Distillate Supply



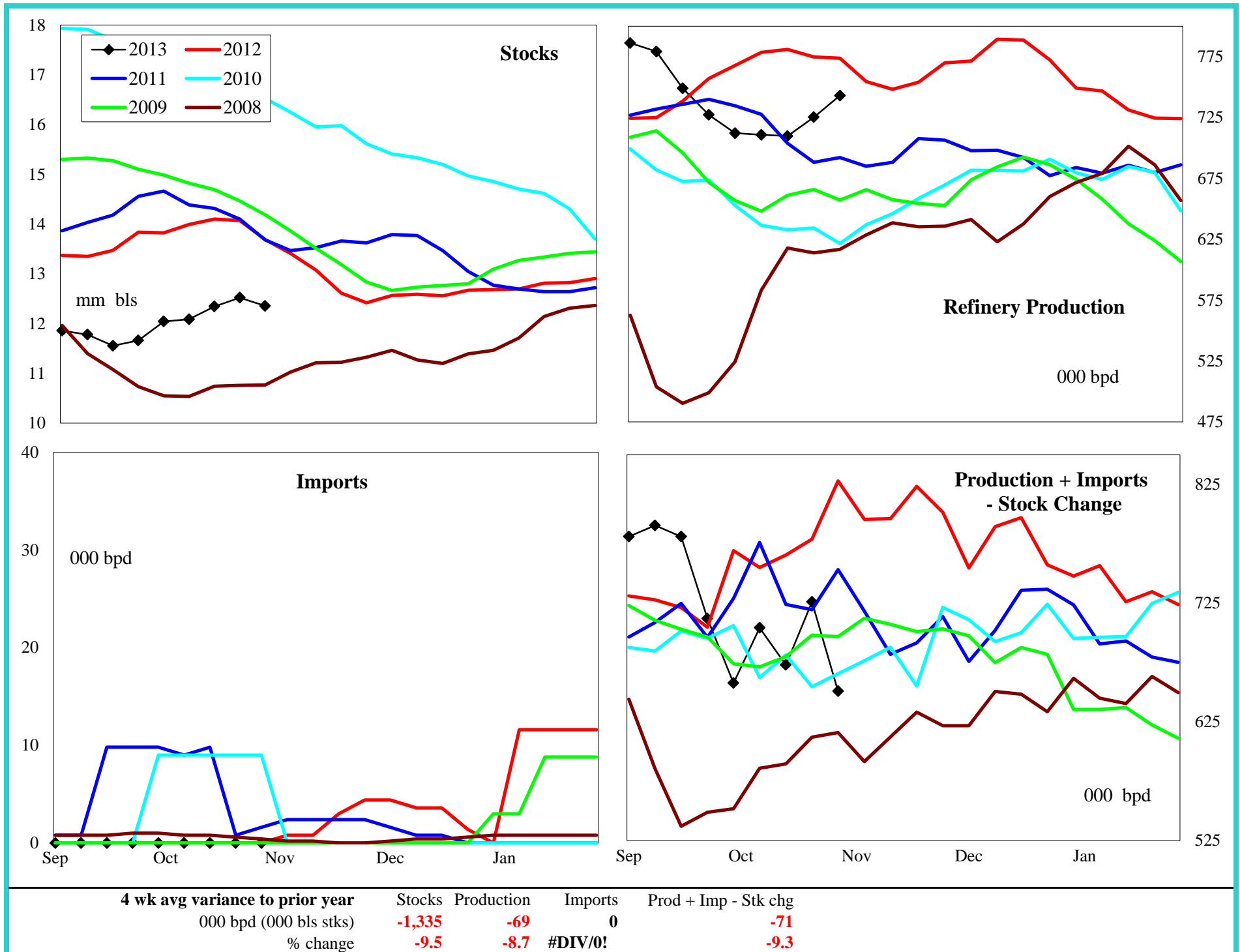
# PADD 3 Low Sulfur Distillate Supply



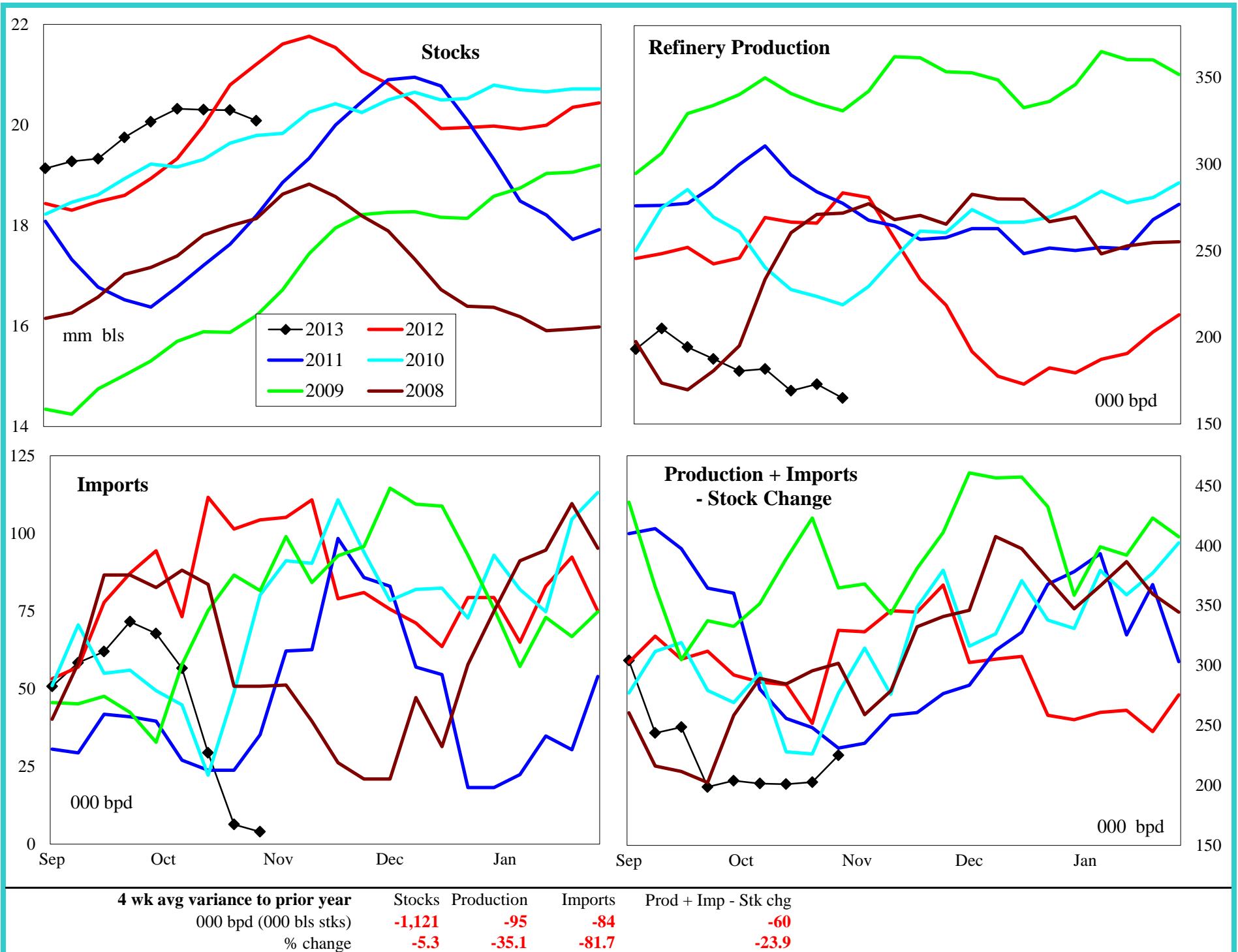
# PADD 3 High Sulfur Distillate Supply



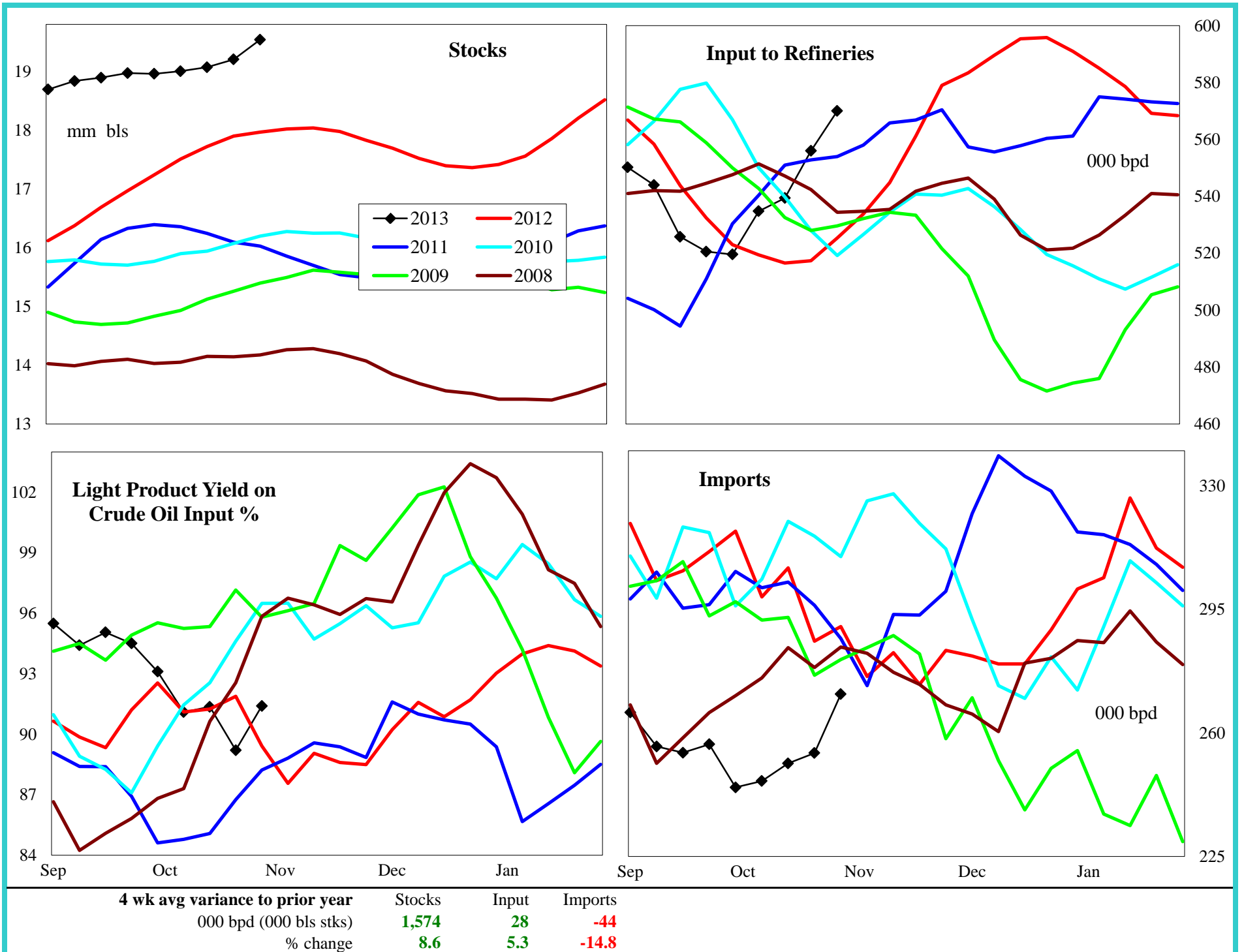
## PADD 3 Jet Fuel Supply



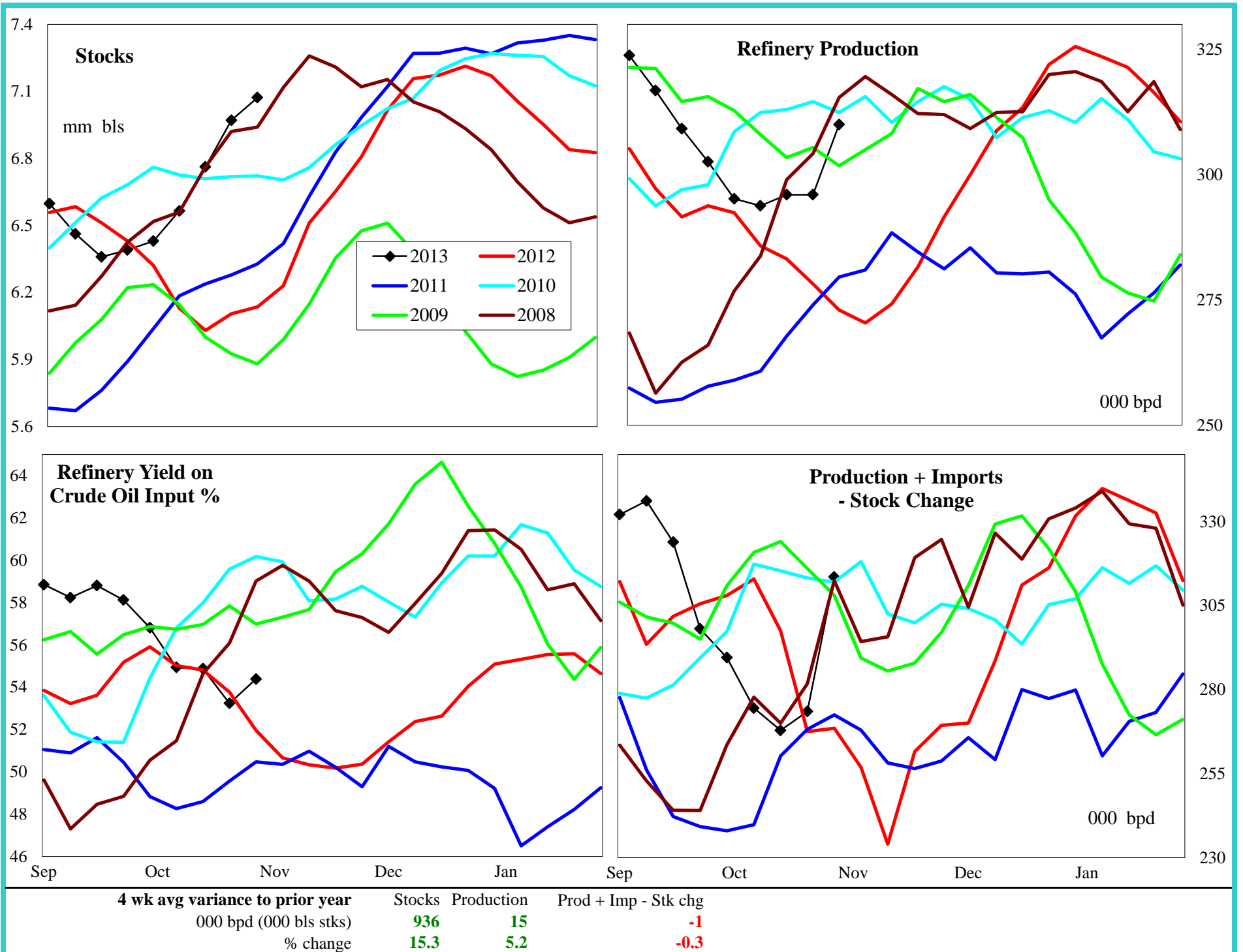
# PADD 3 Residual Fuel Oil Supply



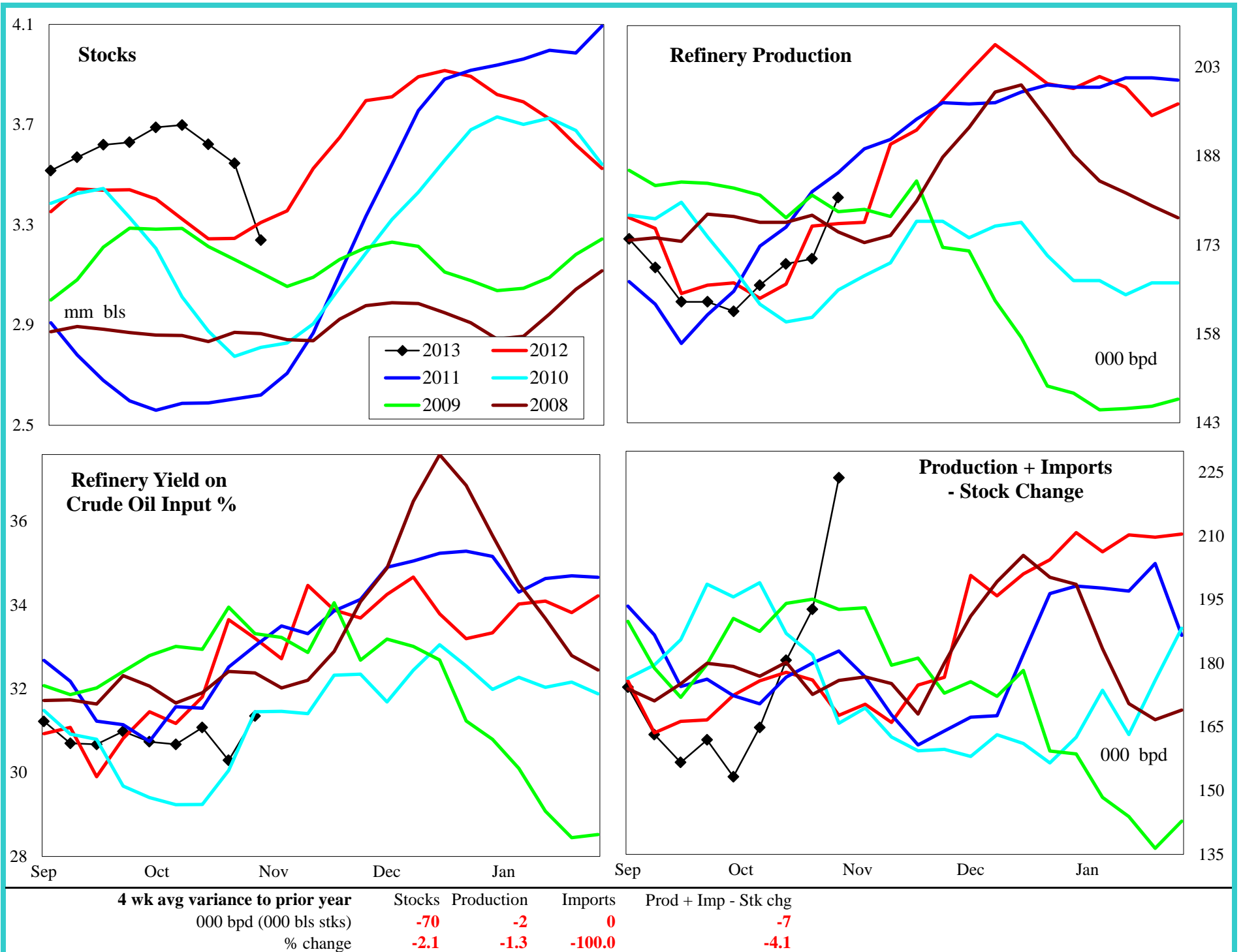
# PADD 4 Crude Oil Supply and Refining



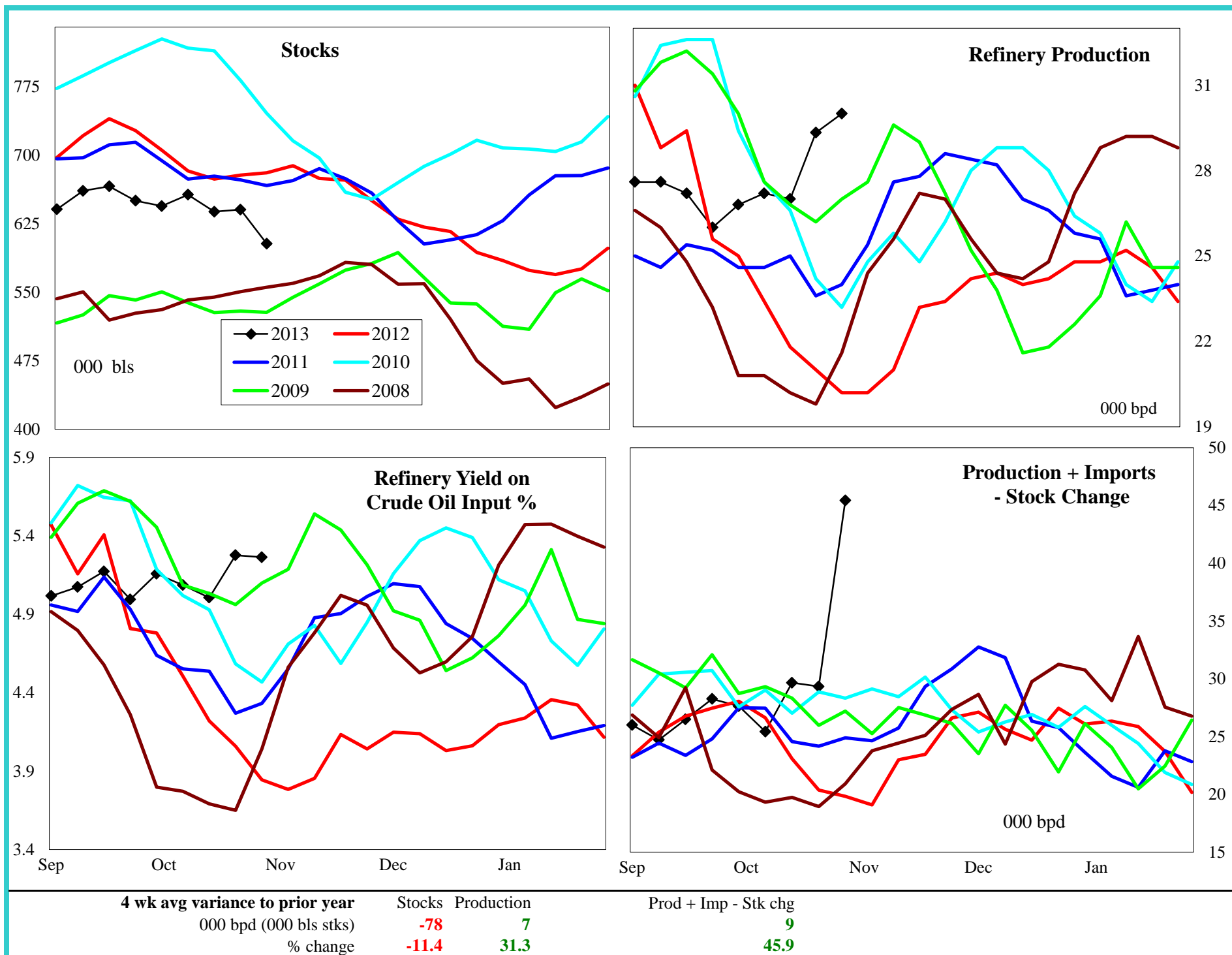
## PADD 4 Gasoline Supply



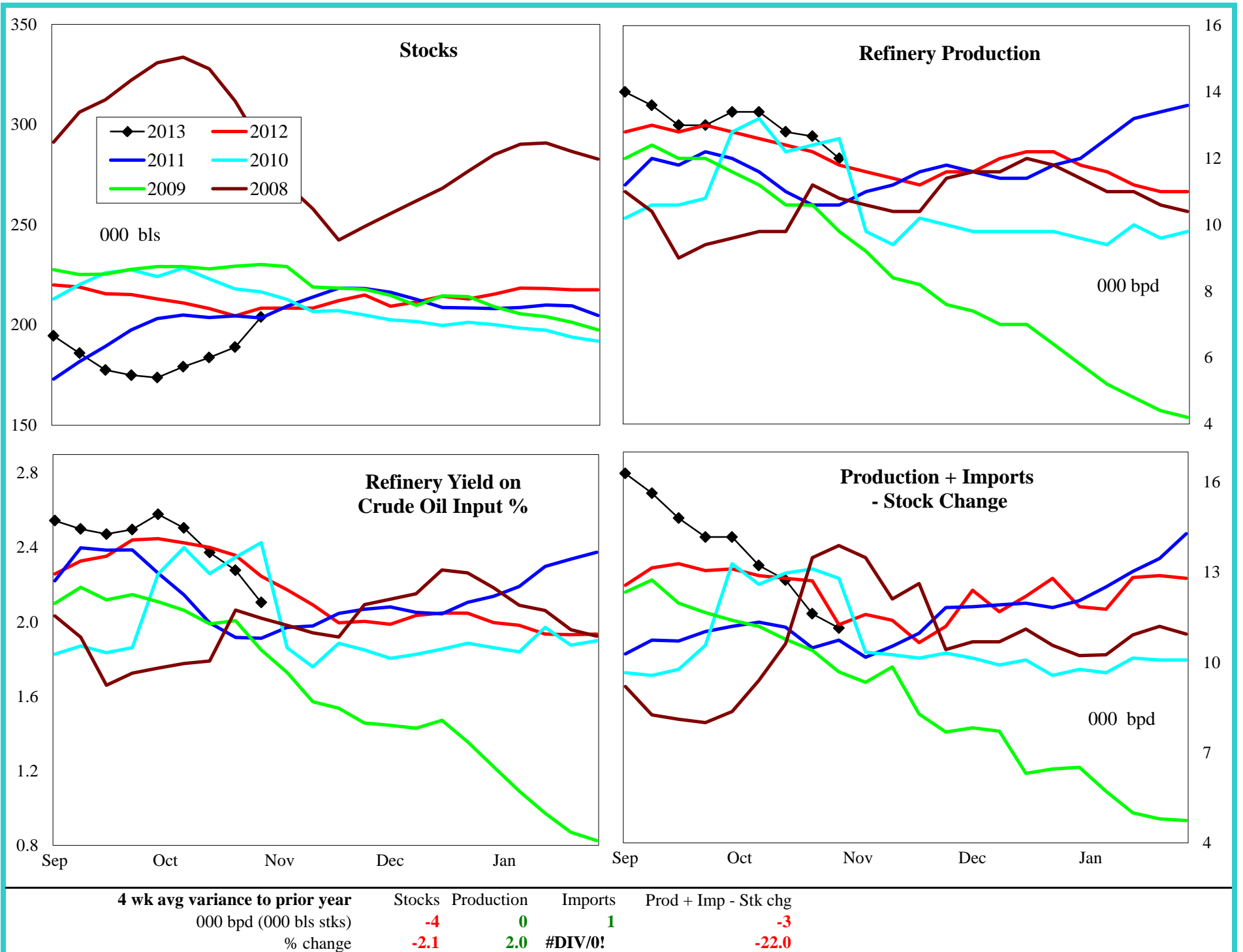
# PADD 4 Distillate Supply



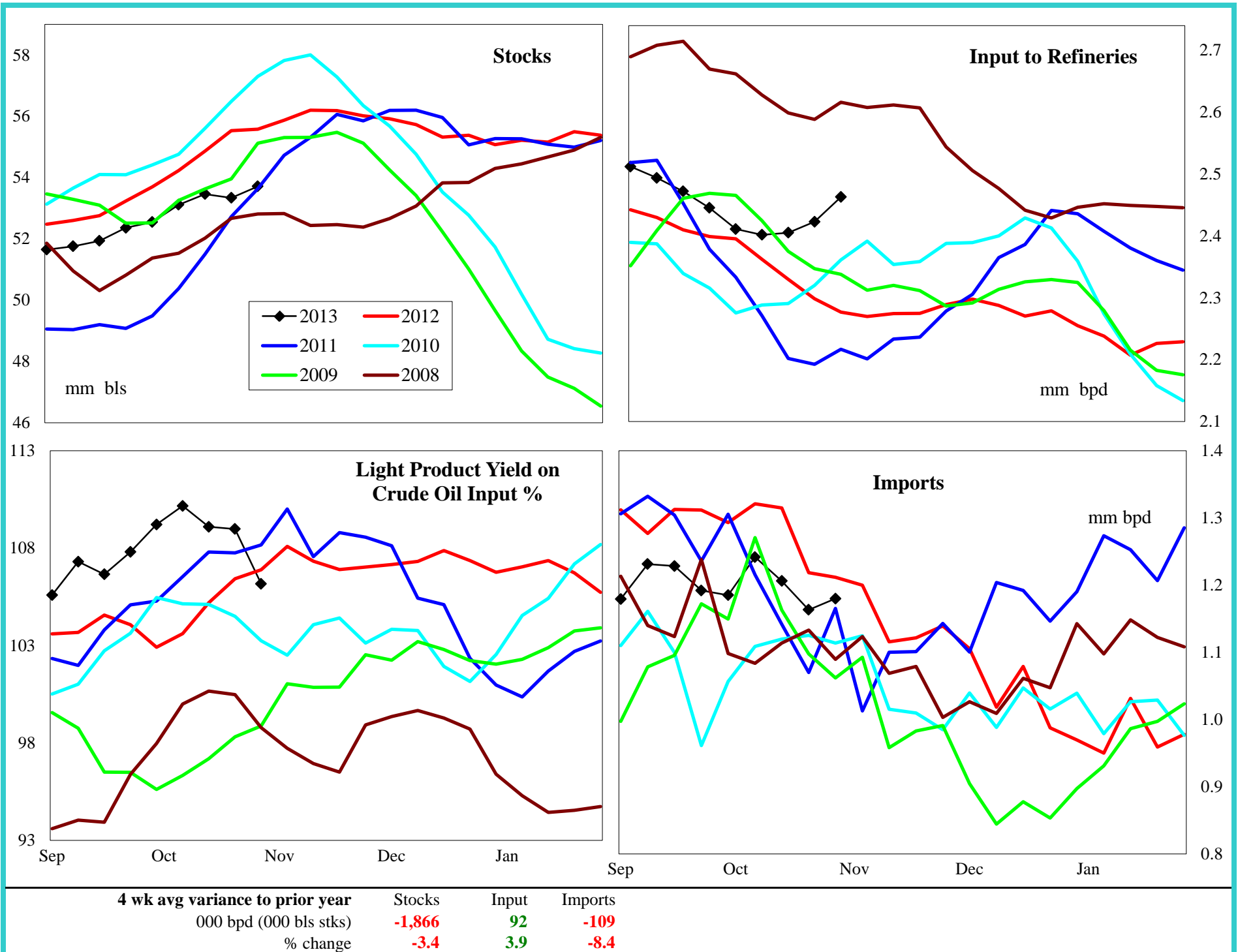
# PADD 4 Jet Fuel Supply



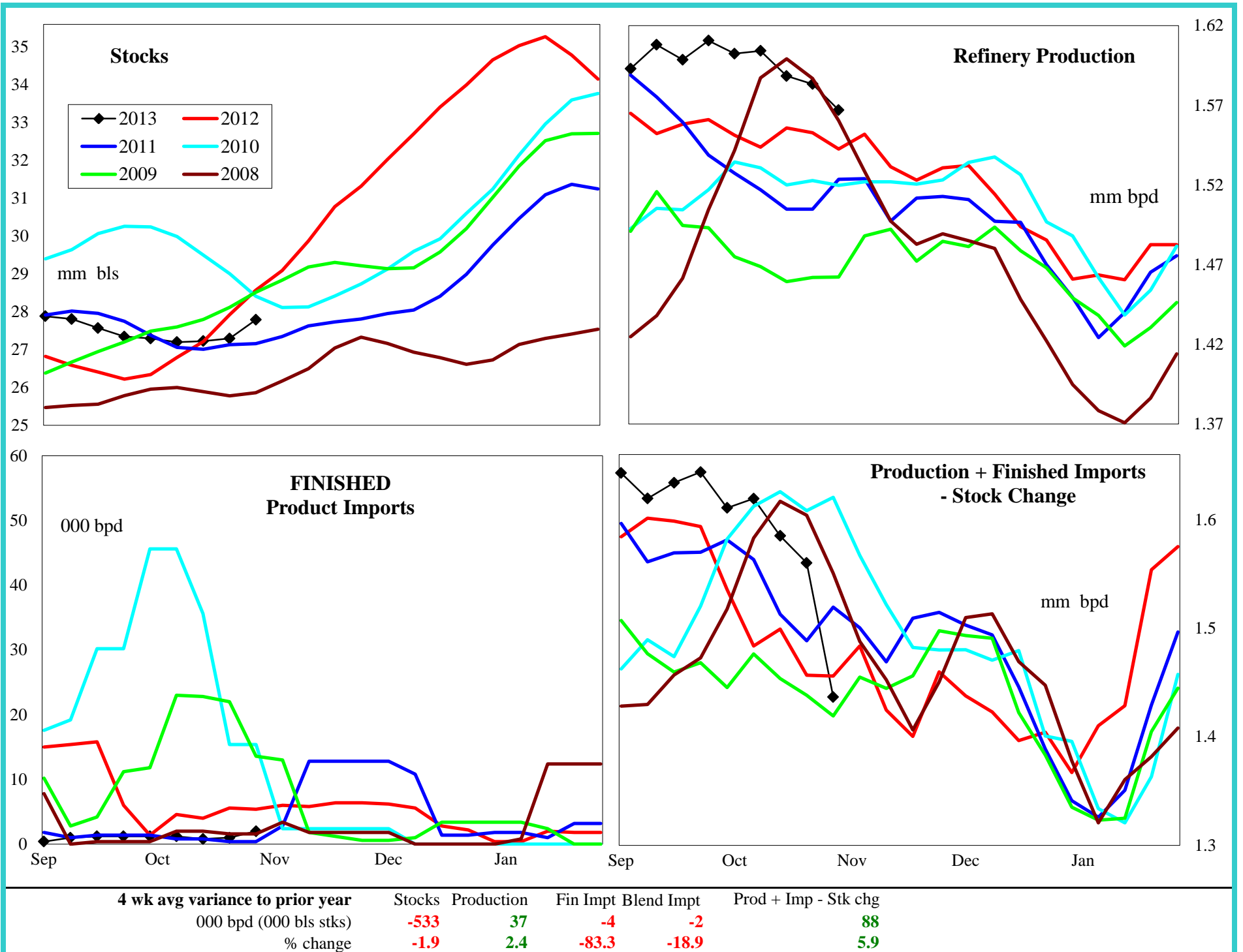
# PADD 4 Residual Fuel Oil Supply



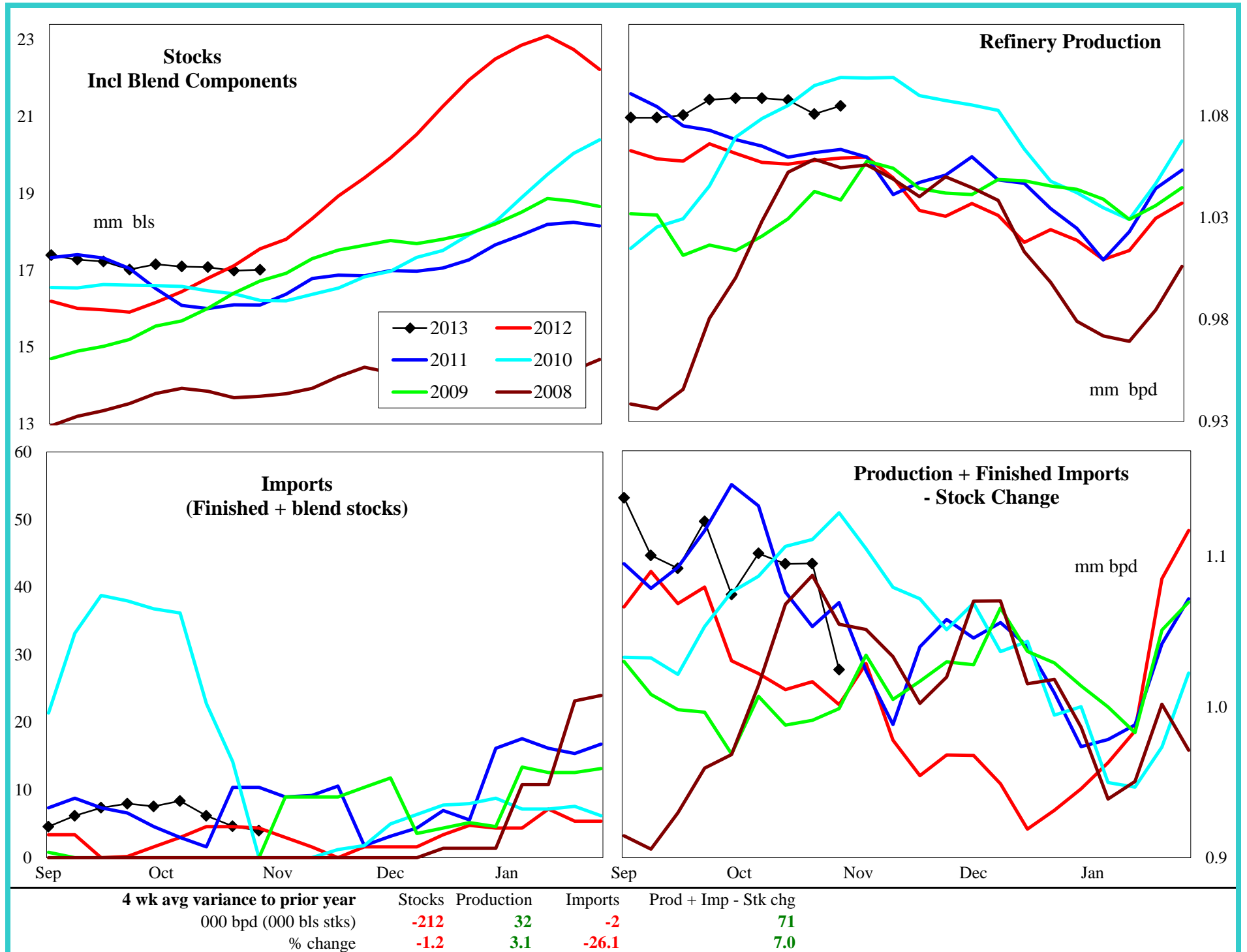
# PADD 5 Crude Oil Supply and Refining



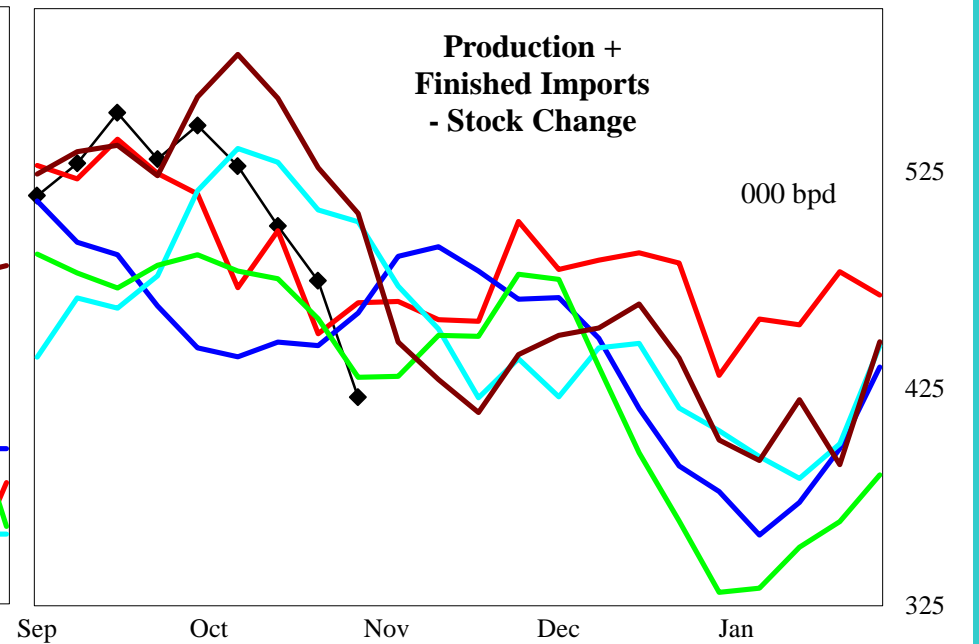
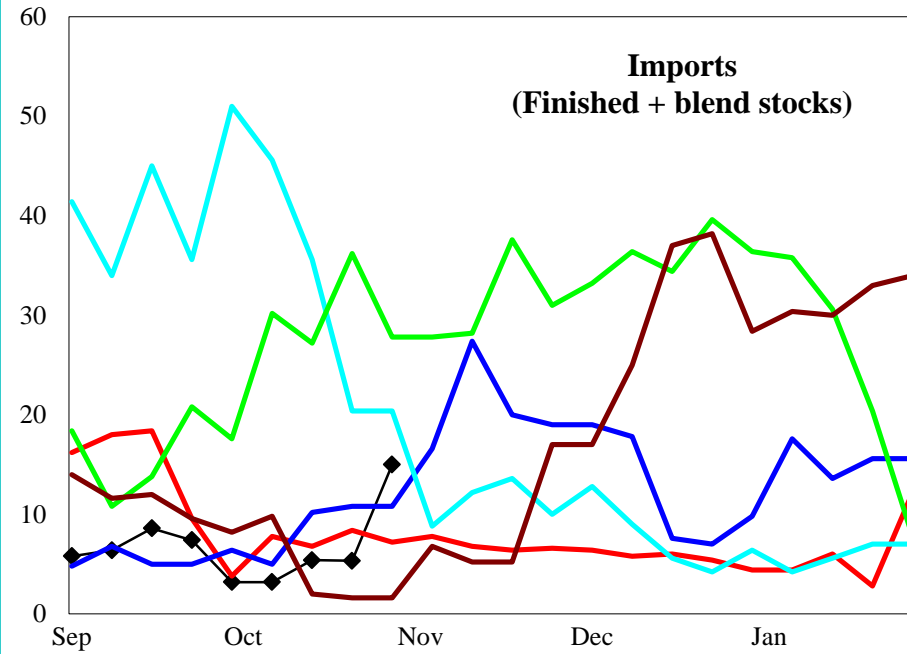
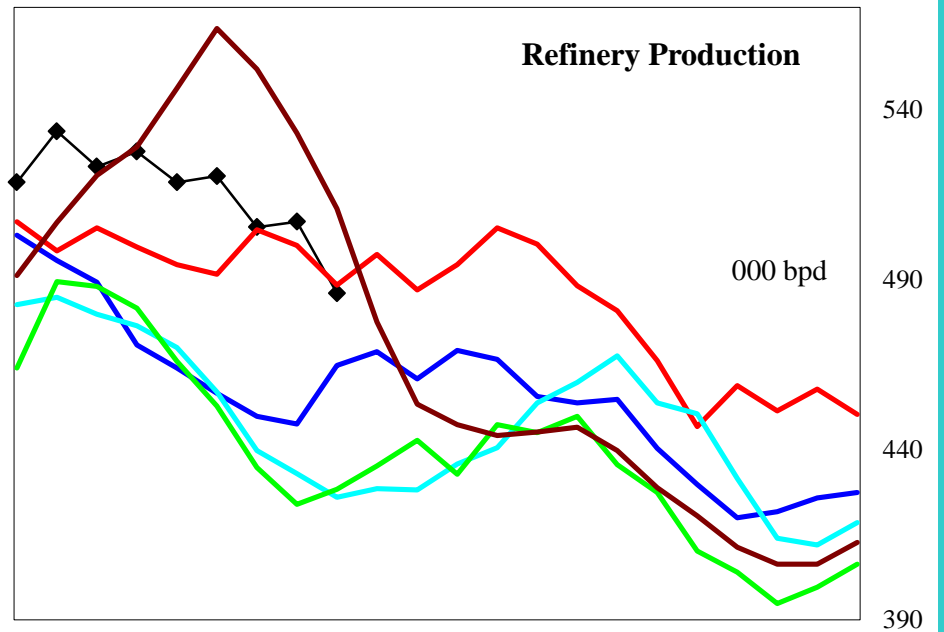
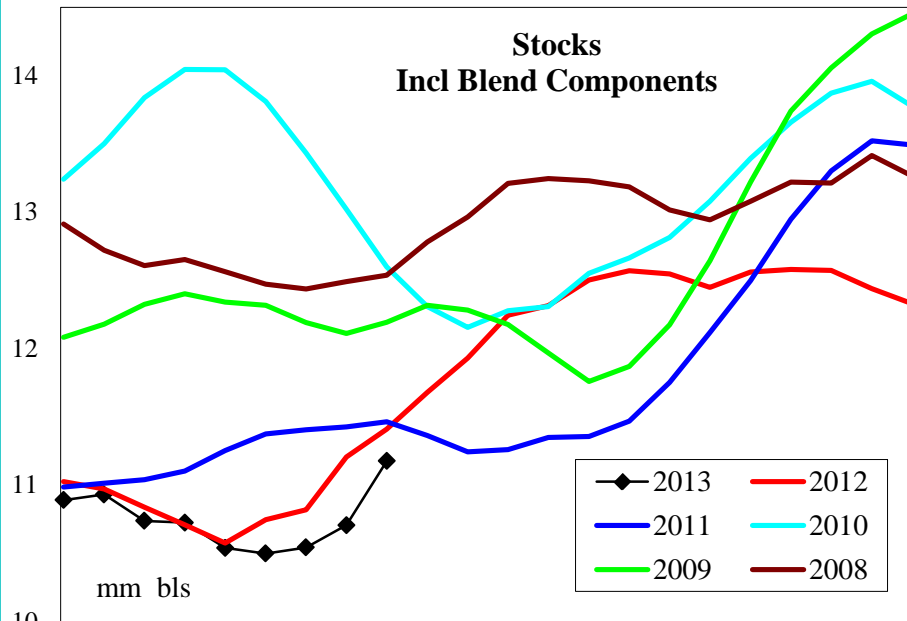
# PADD 5 Gasoline Supply



# PADD 5 Reformulated Gasoline Supply



# PADD 5 Conventional Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

-321

-2.8

Production

4

0.8

Imports

-4

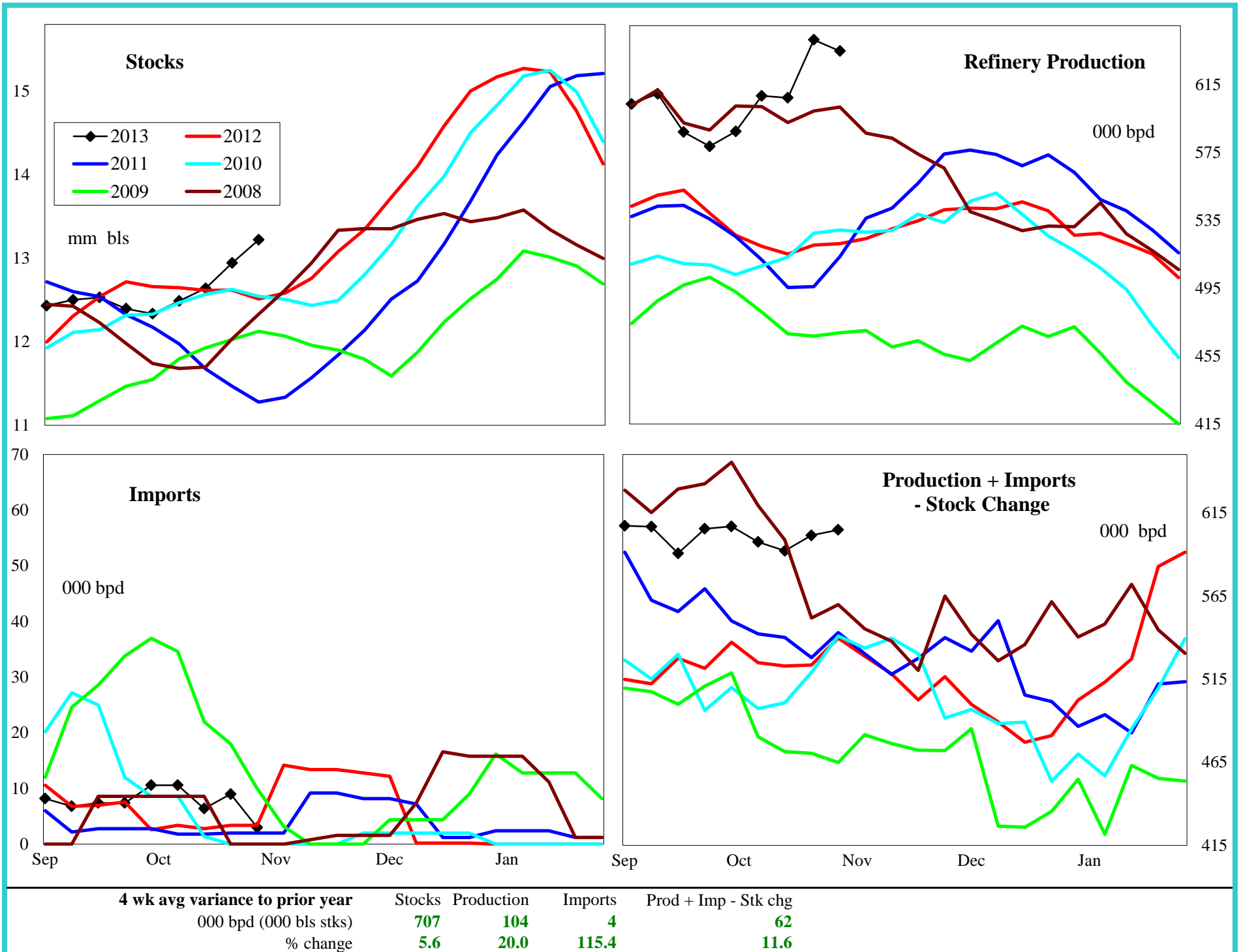
-50.0

Prod + Imp - Stk chg

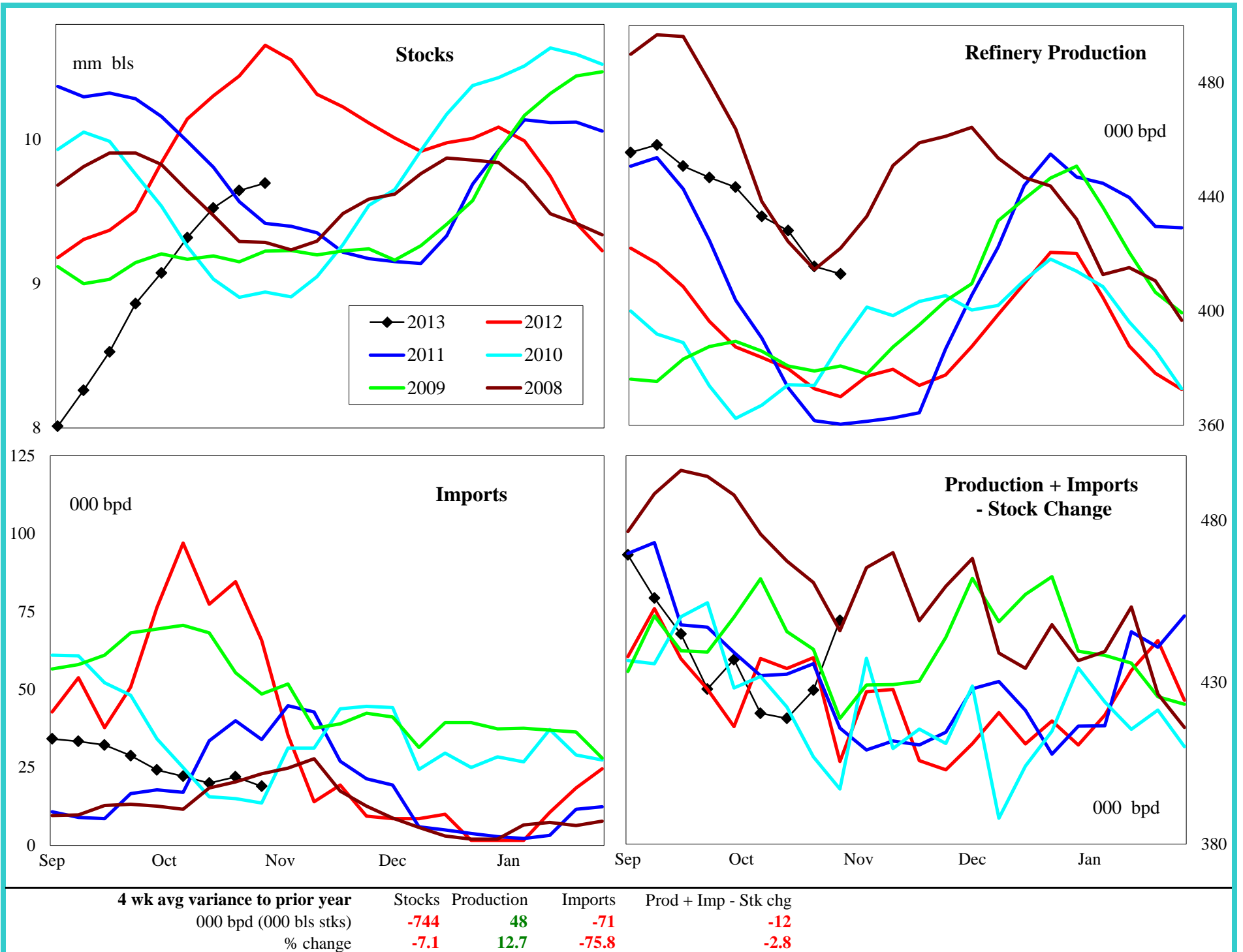
16

3.4

# PADD 5 Distillate Supply



# PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

