



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

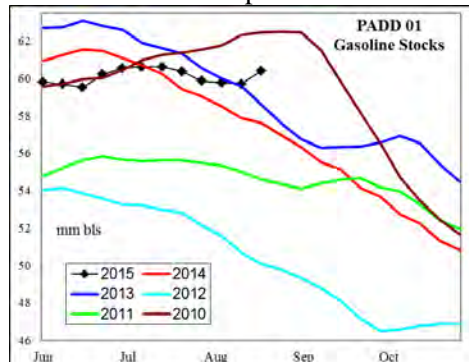
### A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, August 26, 2015



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

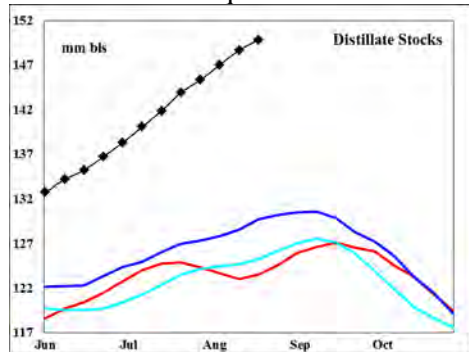
Sharply lower wholesale prices and a wind down in peak summer travel led to a -0.9 million bpd drop in wholesale demand for transport fuels last week. The result was a +2.7 million barrel stock build for transport fuels.



A counter seasonal gasoline stock build on the East Coast last week that lifted stock levels above four of the last 5-yrs points to the very well supplied market East of the Rockies.

Refiners cut crude oil imports by 0.8 million bpd last week, with decreases in all regions as refiners adjust crude oil supply ahead of the start of fall maintenance. The large drop in imports, without an accompanying decrease in refinery input, led to a -5.5 million barrel stock draw for the week.

The start of fall refinery maintenance should lead to crude oil stock builds going forward for the balance of the 3<sup>rd</sup> quarter.



Distillate stocks continued to build last week, rising +1.4 million barrels to a

level +22% above the last 3-yr average. Stock levels in the key Central Atlantic region are now +57% above a year ago - pointing to significant over supply. Stock levels are above the last 3-yrs in every regional market.

**Wholesale Demand** for gasoline fell 0.5 million bpd on the week, while middle distillates also decreased -0.4 million bpd.

Wholesale demand, measured over the last four weeks compared to a year ago: gasoline increased +5.8%, distillate decreased -5.7%, jet fuel increased +4.6%, while residual fuel increased +13%.

**Stocks forward coverage:** Gasoline demand coverage increased last week on a +1.7 million barrel stock build, with wholesale demand sharply lower. Coverage ended the week at a level that matched historic lows for the period.

Distillate demand coverage increased on a +1.4 million barrel stock build, and lower wholesale demand. Coverage ended the week at a level above the last 4-yrs.

Jet fuel coverage fell on a -0.6 million barrel drop in stocks, partially offset by lower wholesale demand. Coverage levels were above the 3-yr mid range.

**Refinery utilization** rates decreased on a -117,000 bpd decline in crude oil runs last week. During the latest 4-wk period crude oil input was +0.5 million bpd above last year.

Gasoline yield % on crude oil runs fell on the week due to a -0.5 million bpd decrease in output compared to the -0.1 million bpd decrease in crude oil runs. Gasoline yield % on crude oil runs ended the week at a level above the last 2-yrs.

Distillate yield % on crude oil runs decreased on a -166,000 bpd decline in output compared to the small drop in crude oil runs. The yield % on crude oil runs was below the last 3-yrs.

Jet fuel yield % on crude oil runs decreased last week on a -51,000 bpd

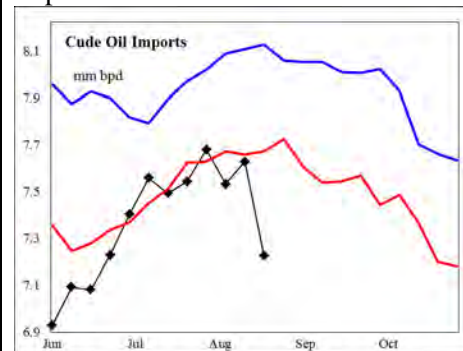
drop in output compared to the lower crude oil runs, with yields equal to 5-yr lows.

**Petroleum Imports/Exports:** Crude oil imports fell -0.8 million bpd last week, with imports of transport fuels also lower.

During the latest 4-wk period crude oil imports decreased -0.1 million bpd compared to a year ago; distillate imports were +21,000 bpd higher; finished gasoline imports were +8,000 bpd higher; gasoline blend stock imports were +220,000 bpd higher; jet fuel imports increased +78,000 bpd, while residual fuel imports were +5,000 bpd higher.

*Exports of distillate for the week ending 21Aug15 were +26,000 bpd above a year ago, gasoline +15,000 bpd higher, jet fuel -1,000 bpd lower and residual fuel oil was +34,000 bpd higher.*

**Crude Oil** stocks decreased -5.5 million barrels on the week, significant draws in the Gulf, Rockies and West Coast. A -0.8 million bpd drop in imports underlies the stock draw.



All regions reported a drop in imports, as refiners adjust crude oil supply ahead of the start of fall refinery maintenance. Look for crude oil stocks to return to a seasonal build as refiners began fall maintenance.

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



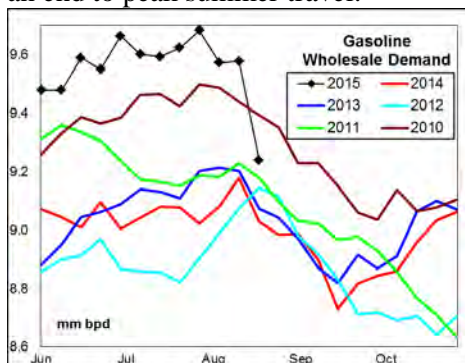
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

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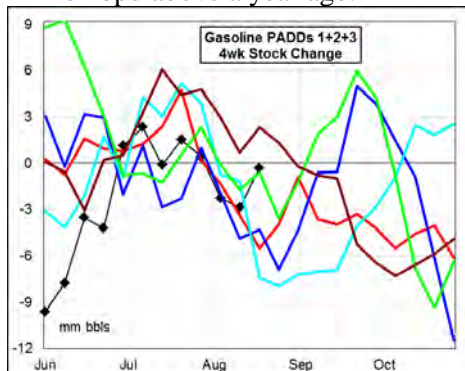
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#### Product Supply-Demand Trends

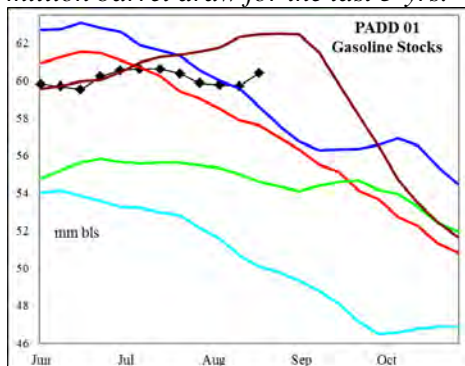
**Gasoline** wholesale demand fell -0.5 million bpd on the week, confirming an end to peak summer travel.



Supply fell -0.7 million bpd last week, although the 4-wk average was +0.5 million bpd above a year ago.



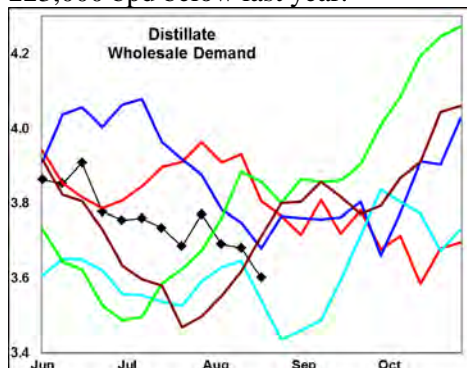
The latest 4-wk stock change East of the Rockies was a -0.3 million barrel draw, compared to an average -7 million barrel draw for the last 3-yrs.



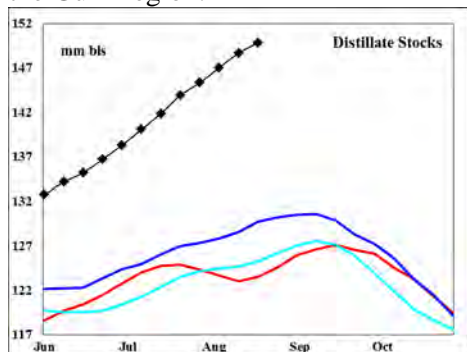
Stocks saw a counter seasonal +0.9 million barrel build on the East Coast last week, lifting the level above four of the last 5-yrs. The gasoline market is well supplied in all regions except the West Coast where stock levels are below the 5-yr range.

**Distillate** wholesale demand fell -0.3 million bpd last week, to a level below the last 2-yrs for the period. The latest

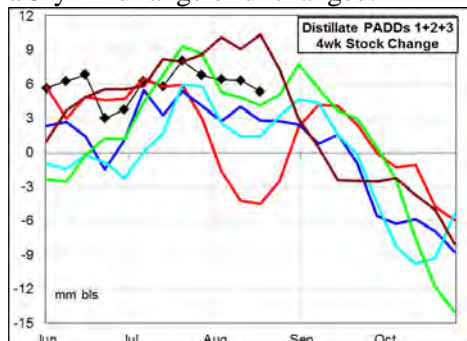
4-wk average wholesale demand was -223,000 bpd below last year.



Supply fell -244,000 bpd last week, with the 4-wk average +206,000 bpd above a year ago. Stocks increased +1.4 million barrels last week, including a +2.3 million barrel build in the Gulf Region.



Combined markets East of the Rockies have saw a +5.3 million barrel build for the latest 4-wk period, compared to a 3-yr mid range of unchanged.

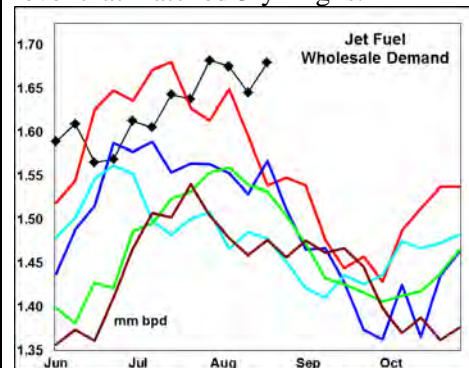


A year-on-year decline in wholesale demand during the last 2-months, combined with very high production and imports has led to extremely high stock levels in most regional markets. Supplies should remain burdensome during the fall maintenance season.

**Jet Fuel** wholesale demand decreased -

92,000 bpd on the week, to a level above the 5-yr range. The latest 4-wk average demand was +73,000 bpd above last year.

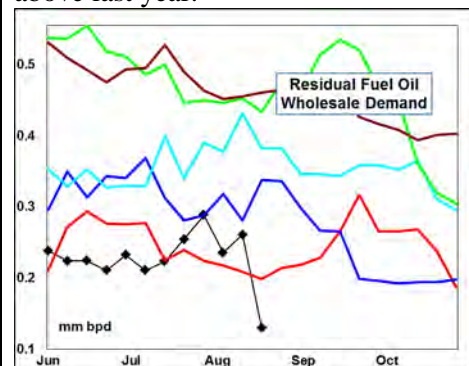
Supply fell -60,000 bpd on the week, driven by lower production; with the 4-wk average +22,000 bpd above a year ago. Stocks decreased -0.6 million barrels on the week, to a level that matched 3-yr highs.



Look for a sharp drop in seasonal demand, which should be offset by lower production as fall maintenance begins.

An increased in shipments from the Gulf to the Midwest has improved supplies in the area, during BP's Whiting refinery unplanned maintenance.

**Residual fuel oil** demand decreased -213,000 bpd last week. Demand for the latest 4-wk period was +26,000 bpd above last year.



Supply (production + imports) decreased -27,000 bpd on the week, due to lower production. Stocks increased +0.6 million barrels, to a level +10% above last year. Production remains extremely high in the Midwest and Rockies on refinery process unit maintenance.





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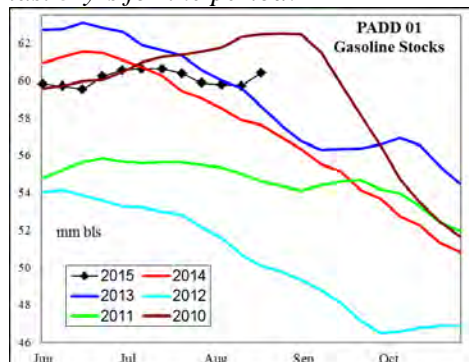
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#### PADD Supply Trends

**PADD 1** refinery crude oil runs were nearly unchanged on the week with the level still above the 3-yr range. The latest 4-wk average thru put was +88,000 bpd above last year.

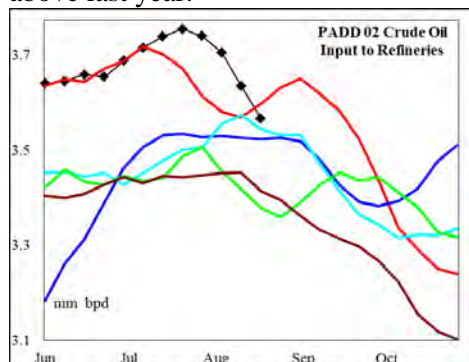
Gasoline supply decreased -0.3 million bpd on the week, with the 4-wk average +92,000 bpd above last year. *Stocks increased +0.9 million barrels last week, ending at a level above the last 3-yrs for the period.*



Distillate supply decreased -61,000 bpd on the week, with the 4-wk average +40,000 bpd above last year. Stocks were nearly unchanged on the week (due to timing of receipts from the Gulf where stocks increased +2.3 million barrels).

Jet fuel supply decreased -62,000 bpd on the week, while stocks increased +0.9 million barrels.

**PADD 2** crude oil refinery runs increased +28,000 bpd on the week, to a level near the 3-yr mid range. The latest 4-wk average was +137,000 bpd above last year.



Crude oil stocks decreased -0.3 million barrels last week. Cushing saw a +0.3 million barrel build for the week.

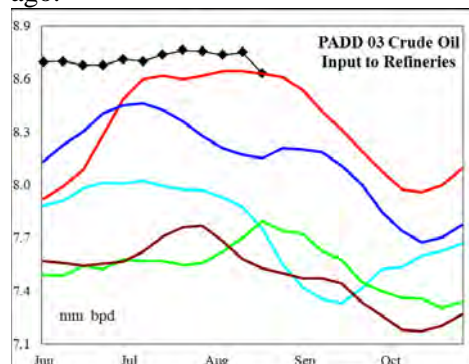
Gasoline supply decreased -20,000

bpd on the week. Production for the most recent 4-wk period was +5,000 bpd above a year ago. Stocks increased +0.5 million barrels on the week, to a level at the low end of the historic range.

Distillate supply decreased -74,000 bpd on the week, to a level below the 5-yr range. The latest 4-wk average production was +24,000 bpd above last year. Stocks decreased -0.6 million barrels on the week, but remain above the last 3-yrs.

Jet fuel stocks increased +0.7 million barrels to match year ago levels.

**PADD 3** refinery runs decreased -0.3 million bpd last week, to a level that matched historic highs for the period. During the latest 4-wk period, runs were +0.1 million bpd above a year ago.



Crude oil imports fell -0.5 million bpd on the week, with the 4-wk average -0.6 million bpd below last year.

Crude oil stocks decreased -1.7 million barrels, to a level +32 million barrels (+17%) above the prior high for the period.

Gasoline supply was unchanged on the week, with the latest 4-wk average +98,000 bpd above a year ago. Stocks increased +1.1 million barrels on the week, to a level that matched the 3-yr mid range.

Distillate supply decreased -140,000 bpd on the week, with the latest 4-wk average supply +104,000 bpd above a year ago. Stocks increased +2.3 million barrels to a level +21% above last year.

Jet fuel production decreased -

10,000 bpd on the week, to a level below the last 3-yrs. Stocks fell -1.9 million barrels to a level that matched 3-yr highs.

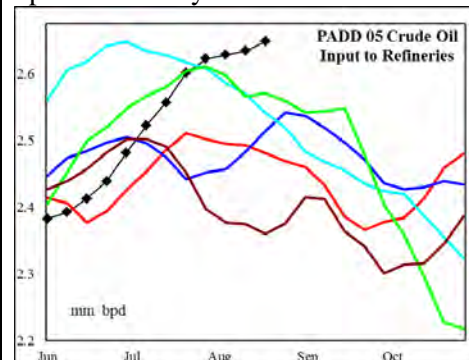
*The spike in distillate stocks and drop in jet fuel stocks reflects timing of pipeline shipments to the East Coast.*

**PADD 4** refinery crude runs increased +12,000 bpd last week, to a level above the 5-yr range. The latest 4-wk average was +12,000 bpd above a year ago.

Gasoline supply increased +13,000 bpd on the week, although the 4-wk average remains -42,000 bpd below last year.

Distillate supply decreased -6,000 bpd on the week, to a level below 5-yr highs. Stock levels ended the week +0.3 million barrels above the 5-yr range.

**PADD 5** crude oil refinery runs decreased -24,000 bpd on the week to a level above the 5-yr range. The 4-wk average thru put rate was +123,000 bpd above last year.

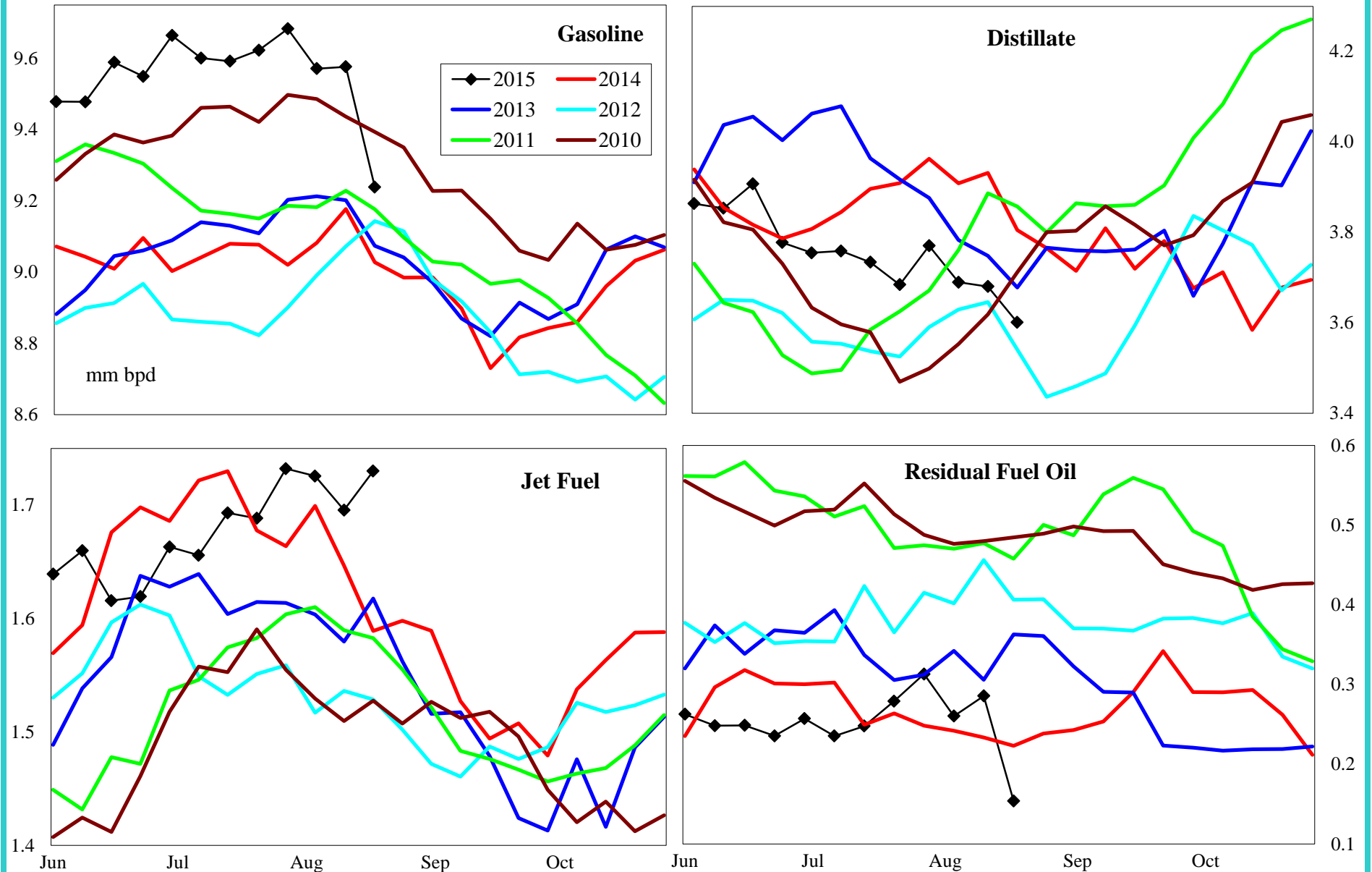


Gasoline supply was nearly unchanged on the week; with the latest 4-wk average -14,000 bpd below last year. Production levels remain above the 5-yr range. Stocks decreased -1 million barrels on the week, to a level sharply below the 5-yr range.

Distillate supply increased +39,000 bpd on the week, due to higher production and imports. The 4-wk average supply was +58,000 bpd above last year. Stocks decreased -0.2 million barrels on the week, but remain +10% above the last 2-yrs.



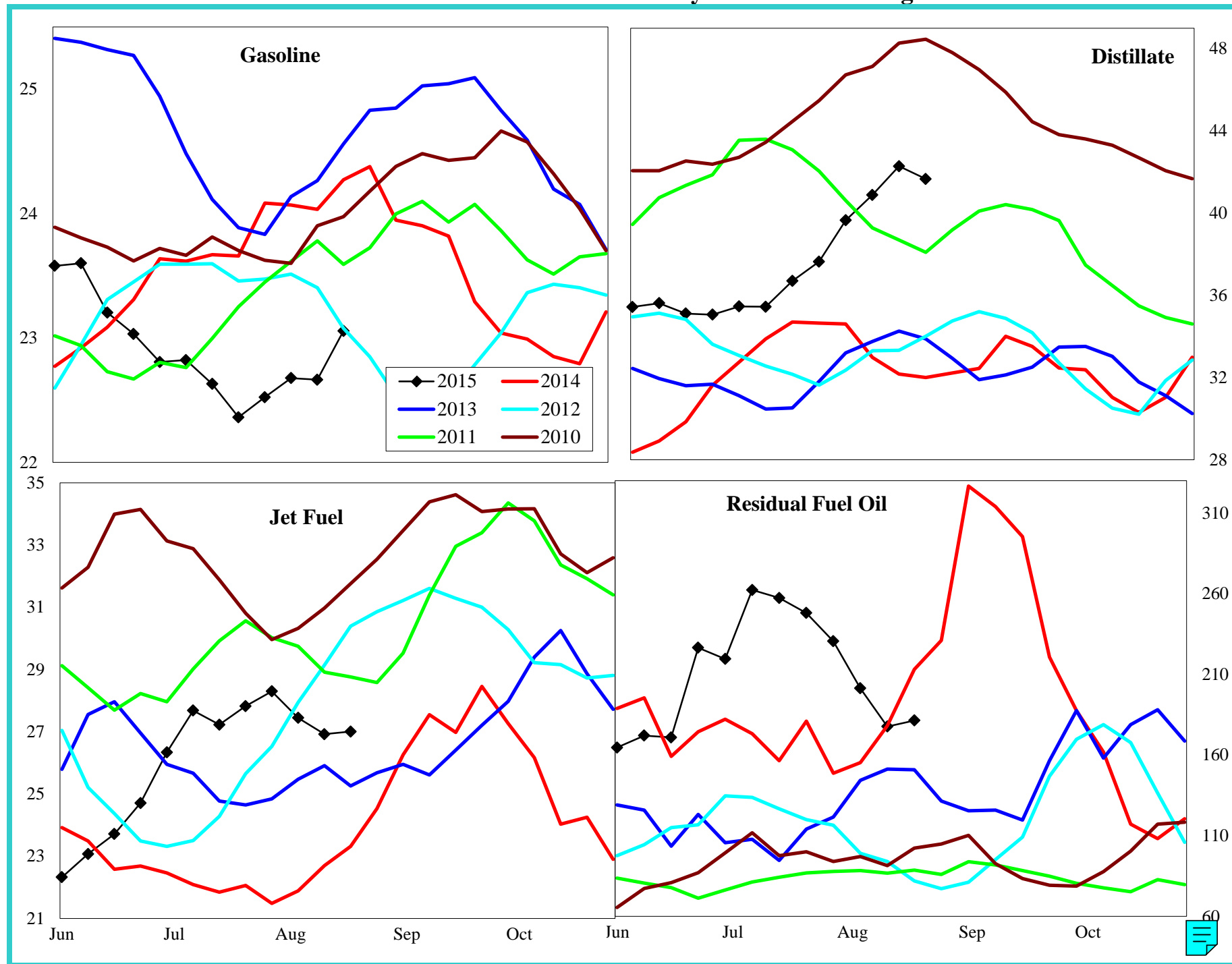
# United States Wholesale Petroleum Demand



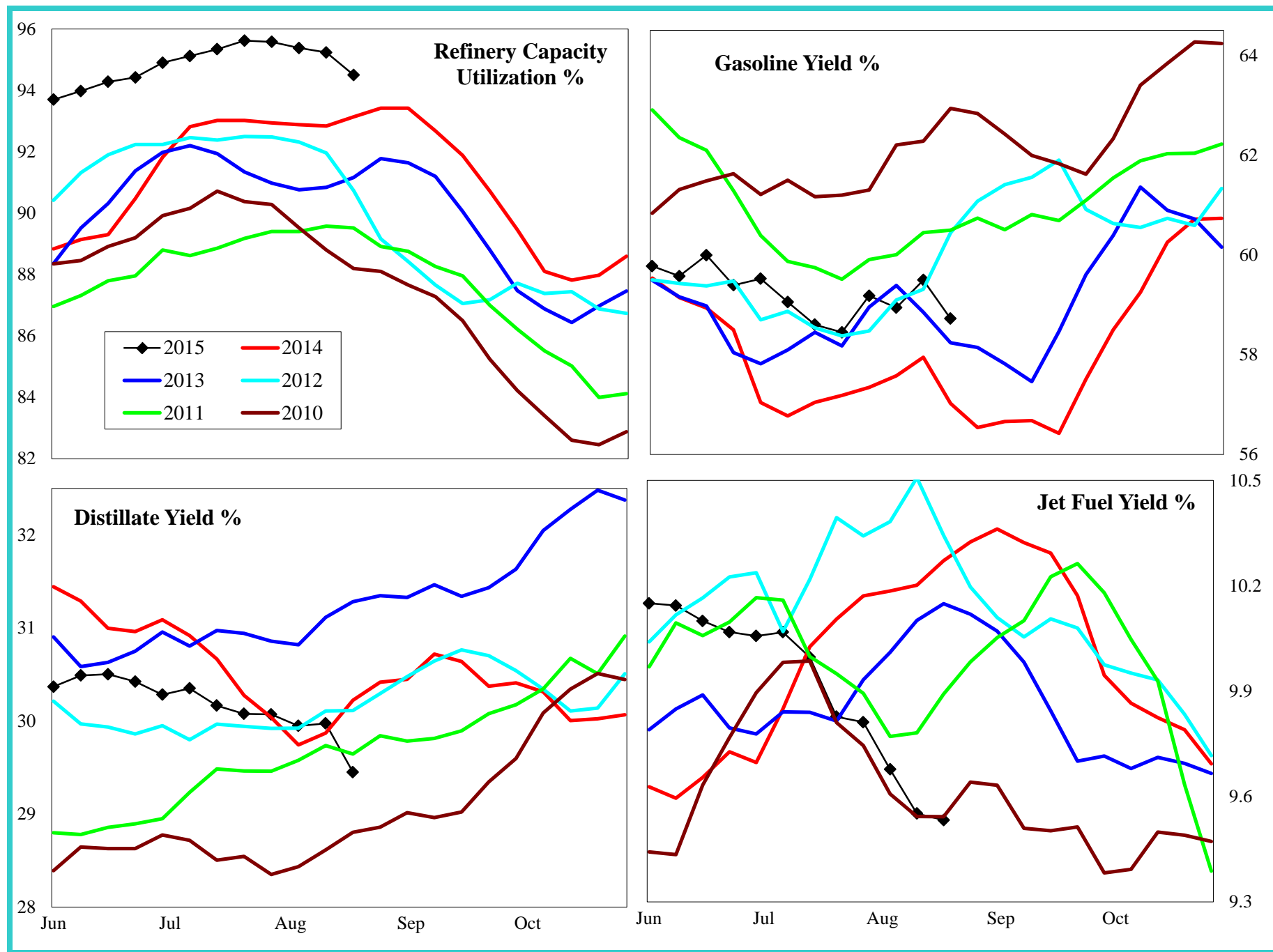
	000 bpd change from prior year				% change from prior year				
	4wk avg	Jul	Jun	Jan	4wk avg	Jul	Jun	May	
Gasoline	528	286	507	235	5.8	3.1	5.6	2.6	
Distillate	-223	-137	56	-144	-5.7	-3.5	1.4	-3.7	
Jet Fuel	73	79	20	103	4.6	5.1	1.3	7.3	
Resid	26	-38	-45	-1	12.9	-15.9	-17.2	-0.4	



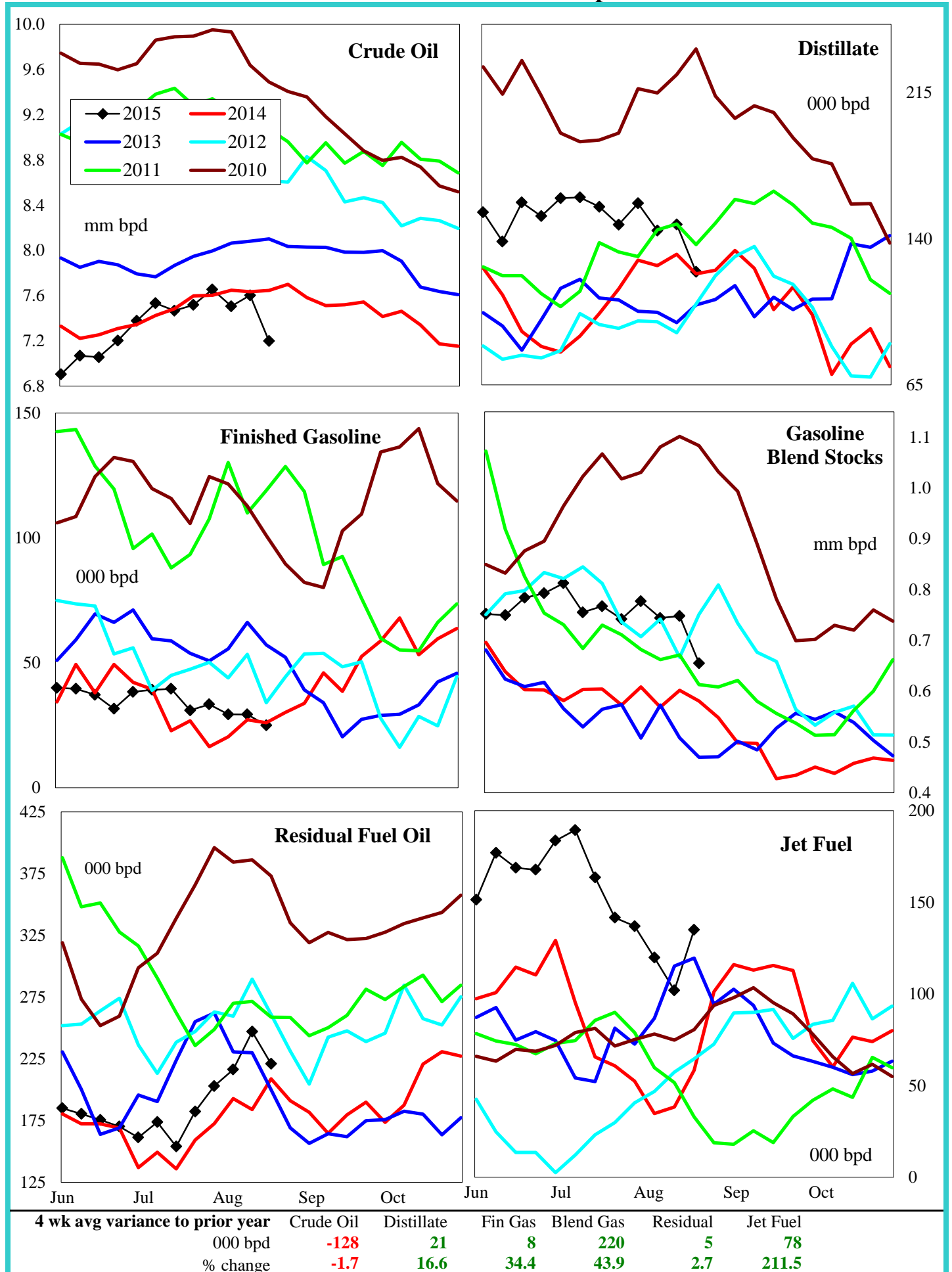
# United States Product Stocks: Days Forward Coverage



## United States Refinery Percent Utilization Rate and Product Yields

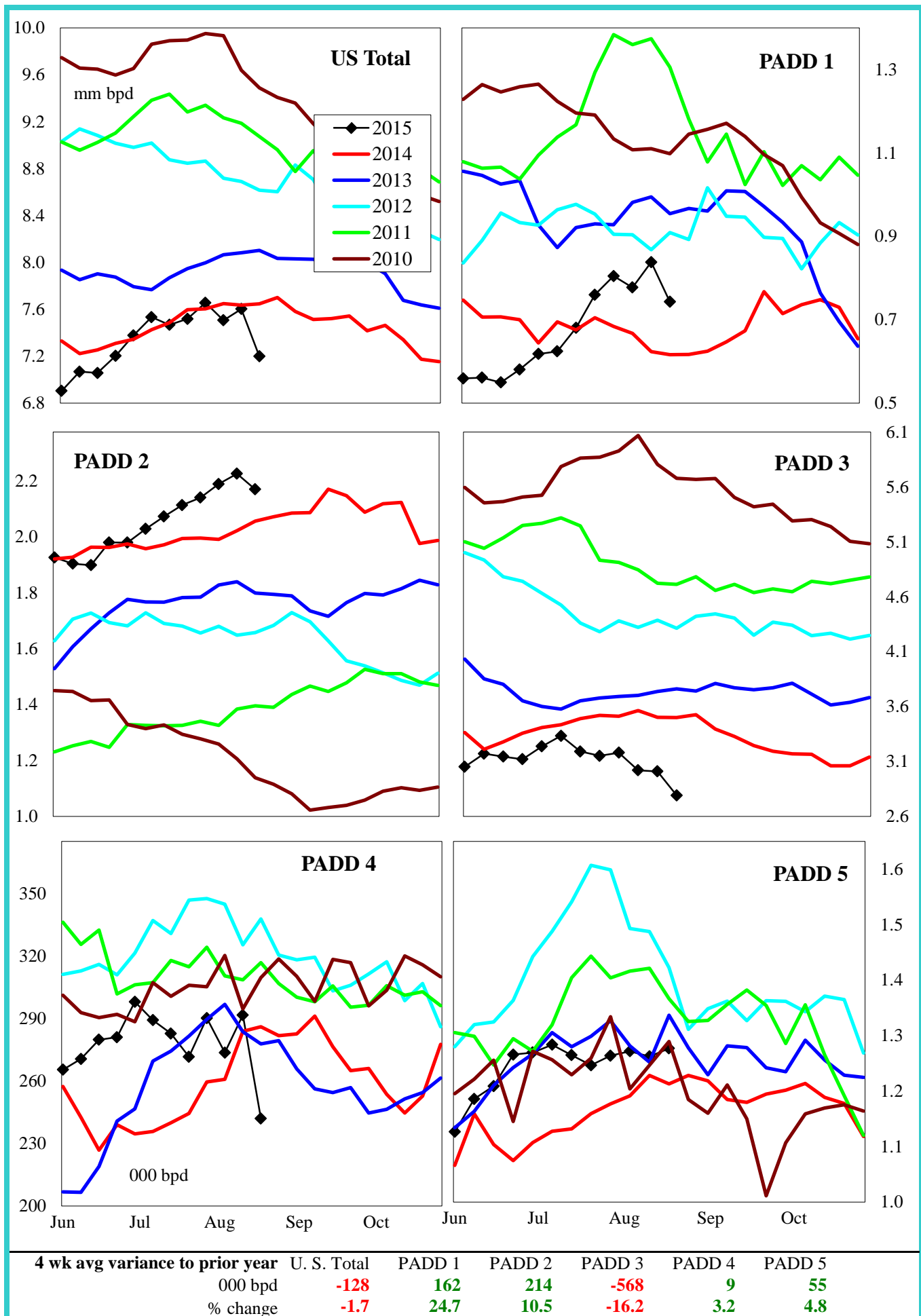


# United States Petroleum Imports

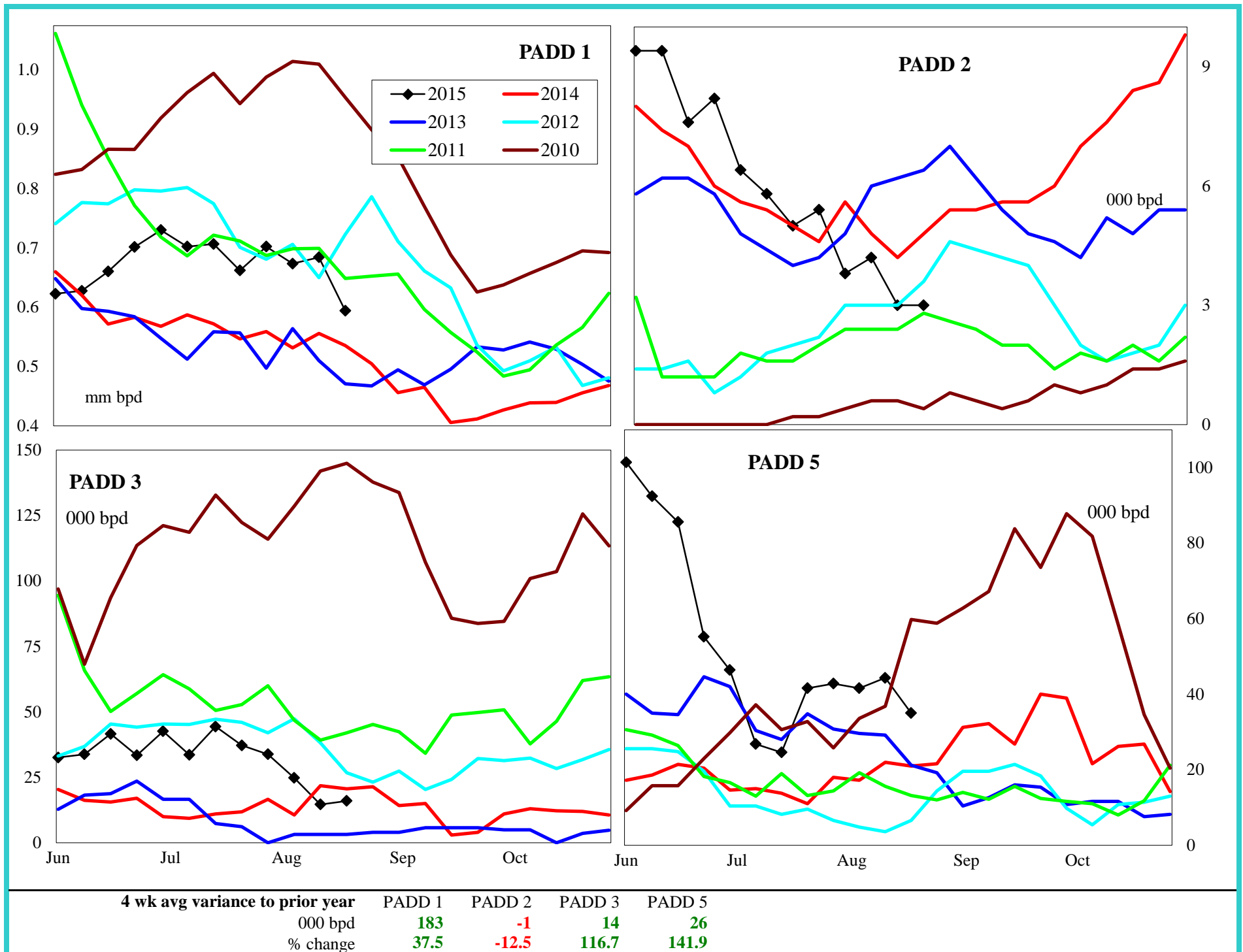




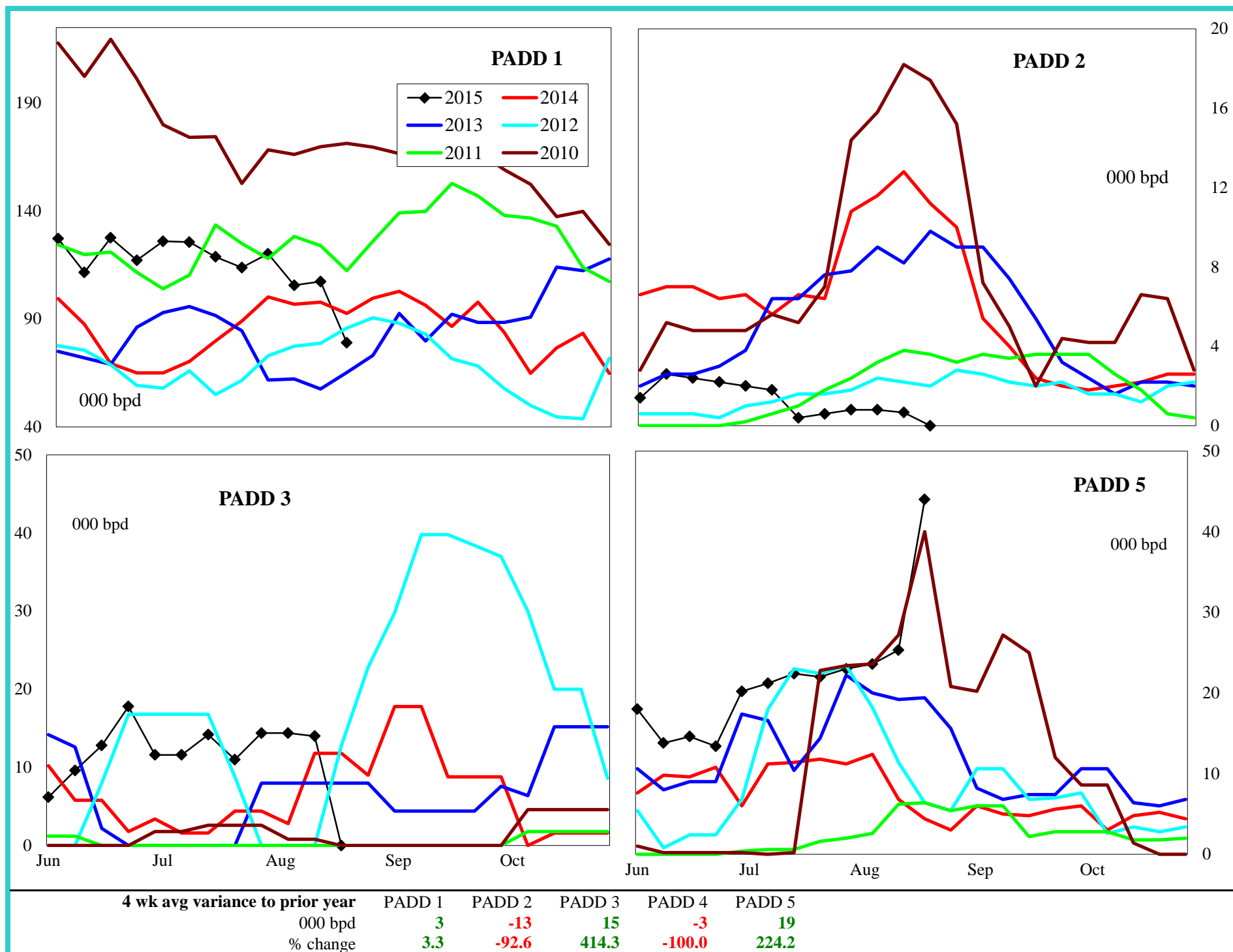
## Crude Oil Imports by PADD



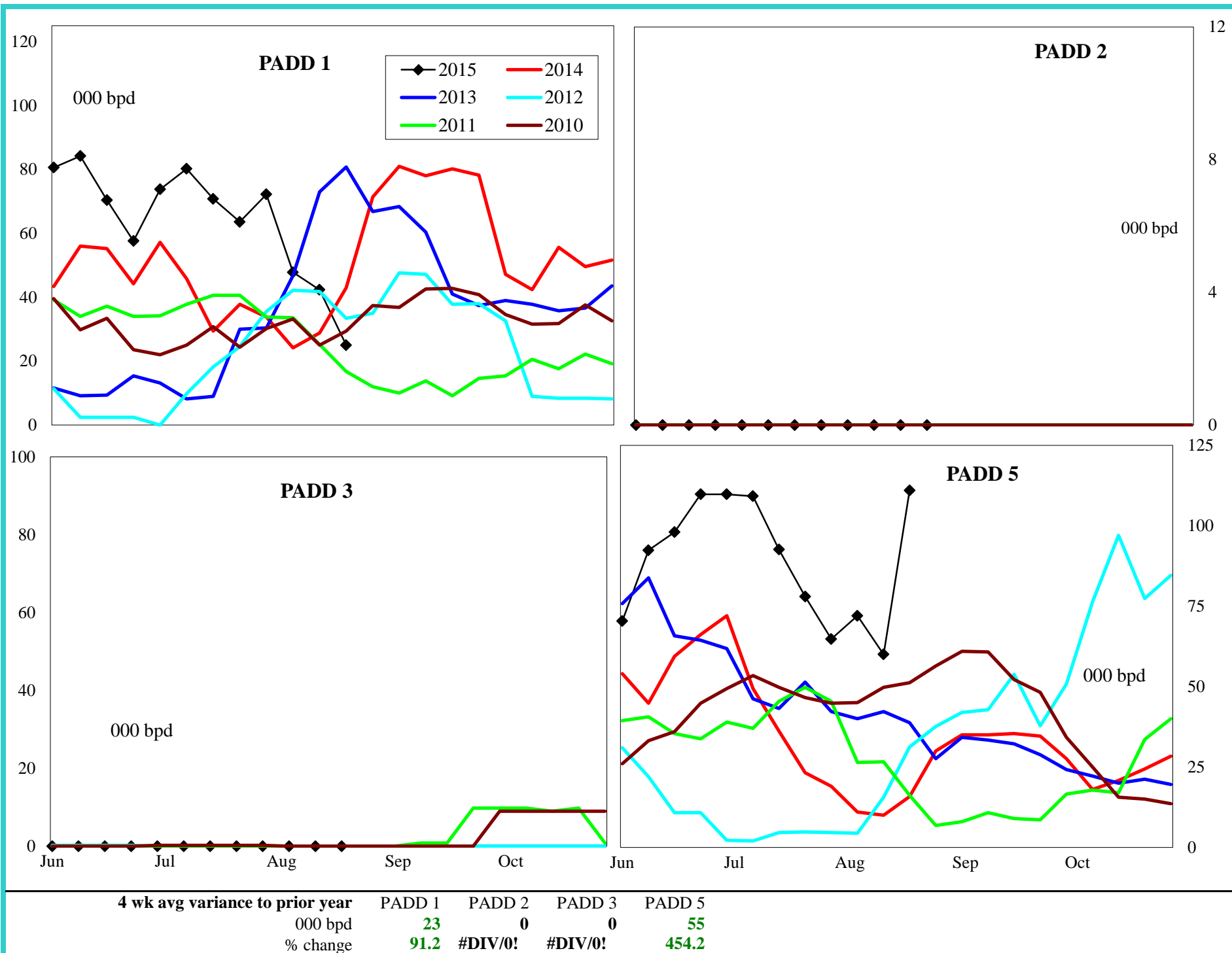
# Gasoline Imports by PADD (Finished + Blend Stocks)



# Distillate Imports by PADD

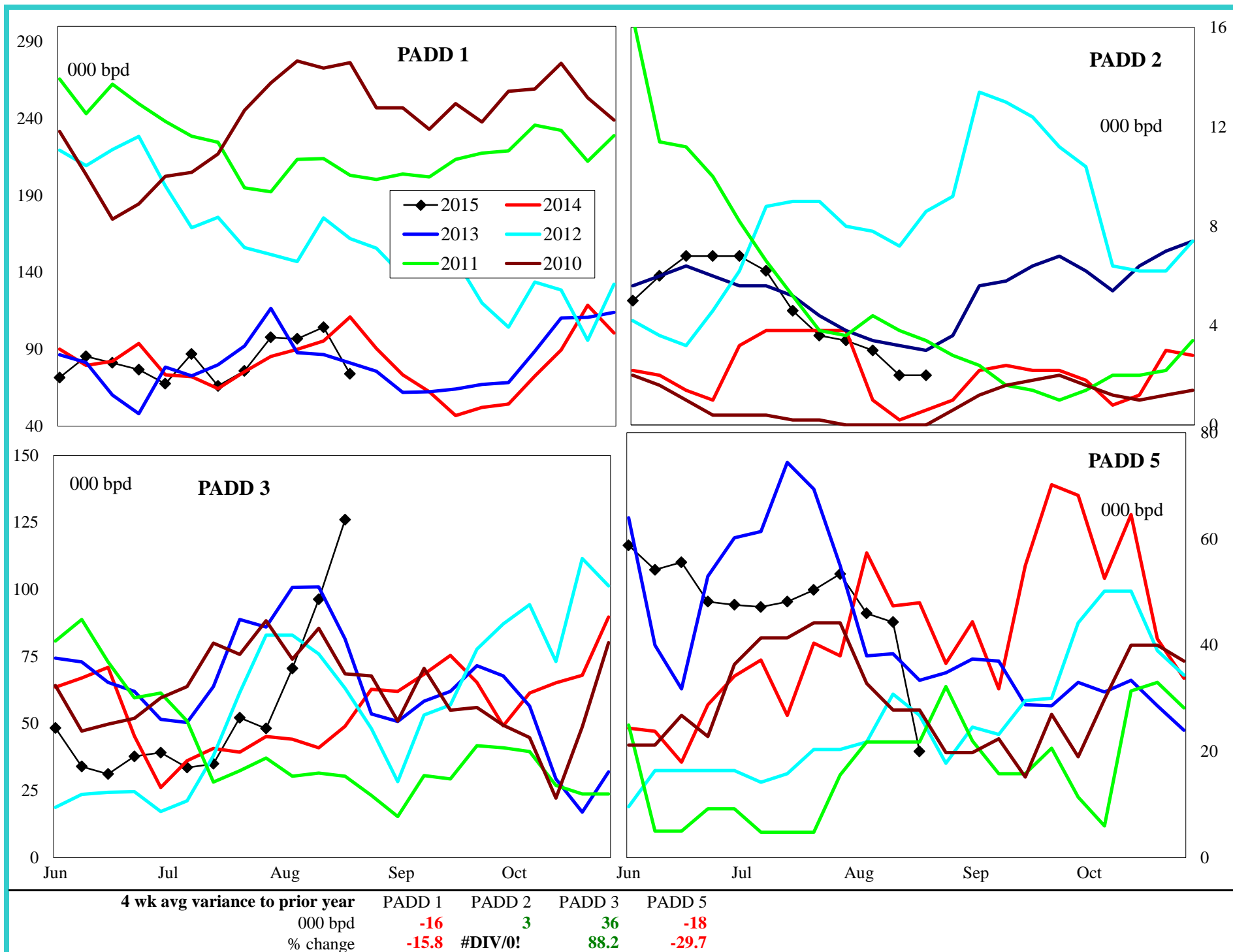


# Jet Fuel Imports by PADD

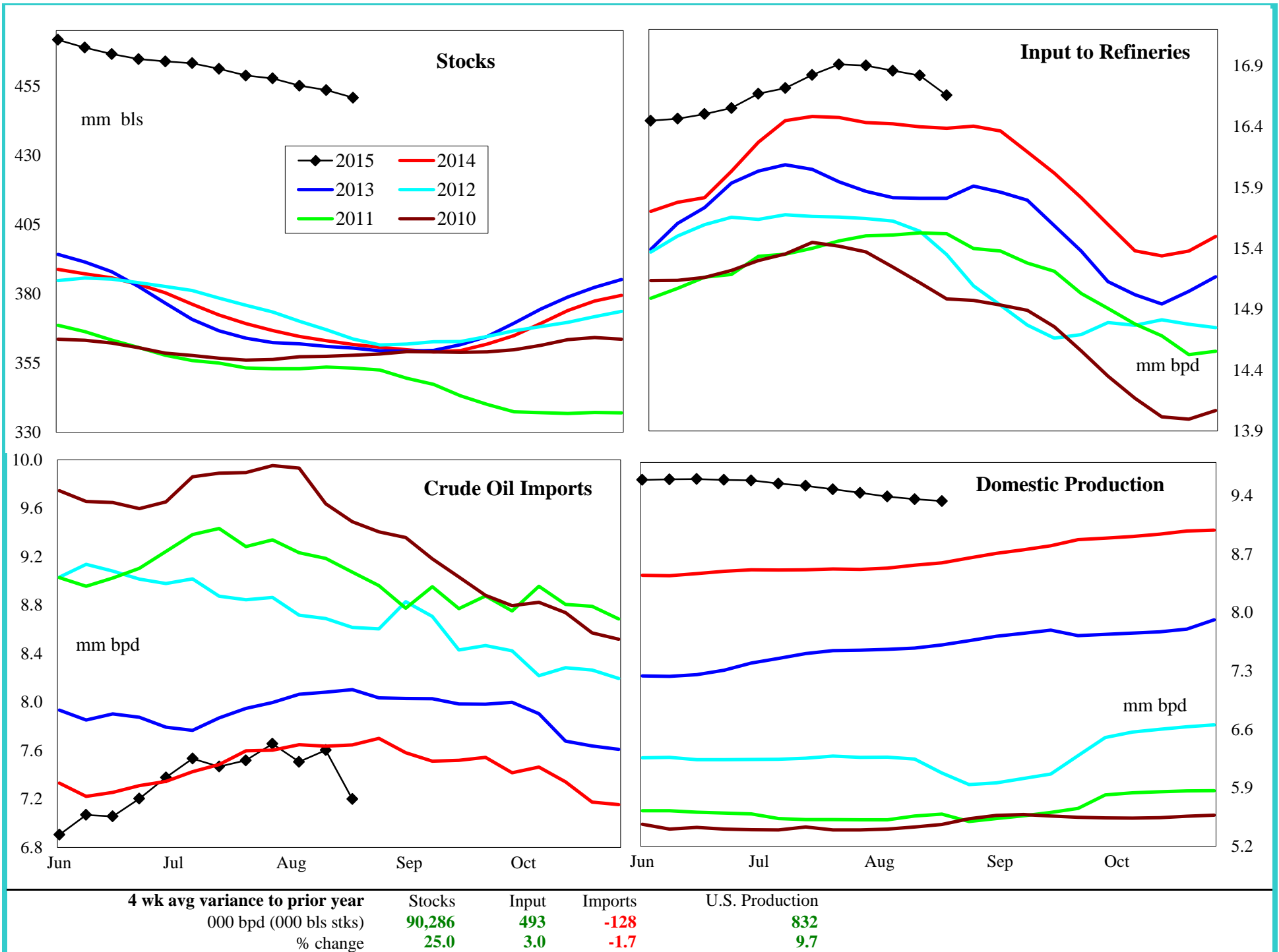




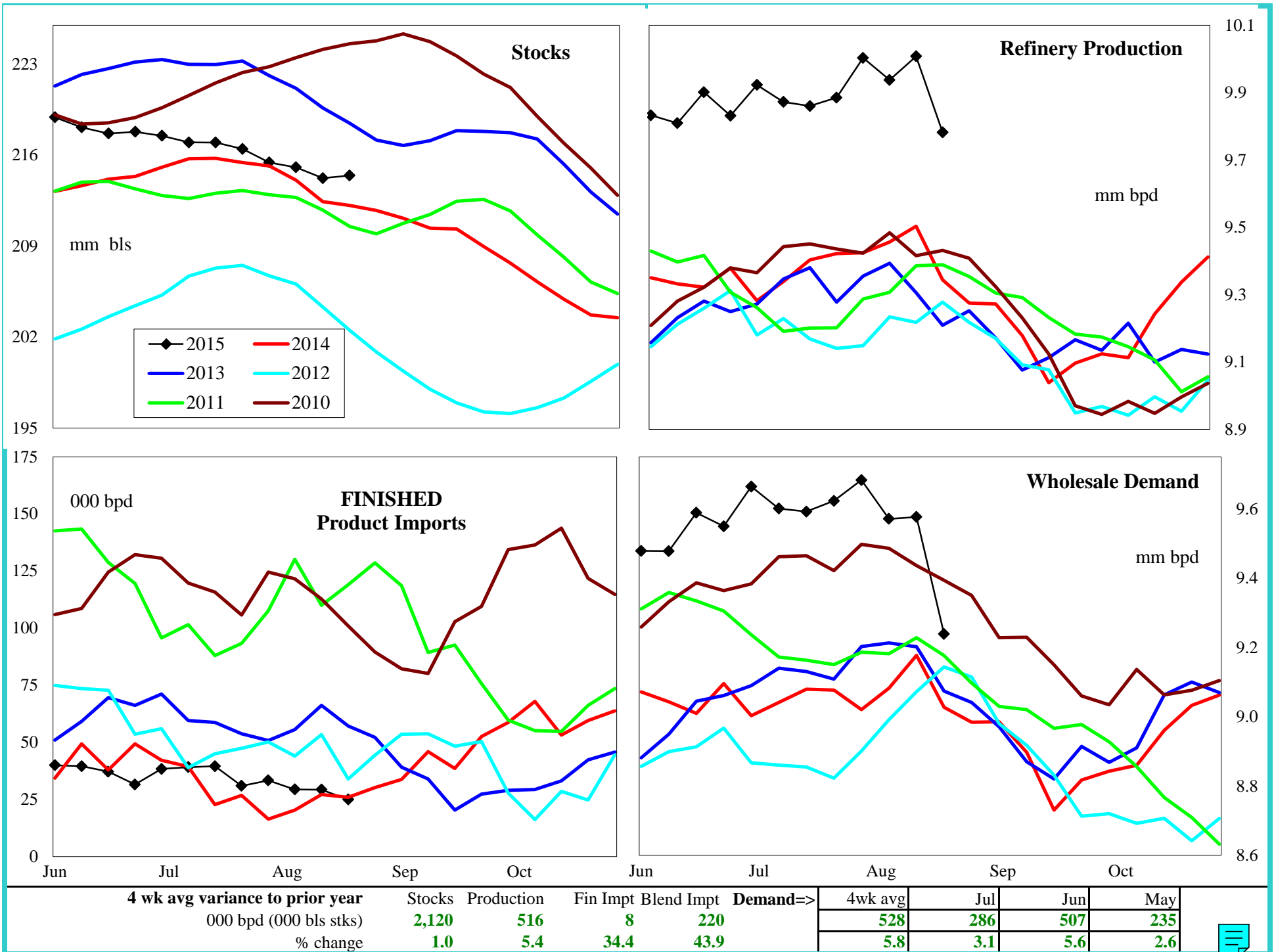
## Residual Fuel Oil Imports by PADD



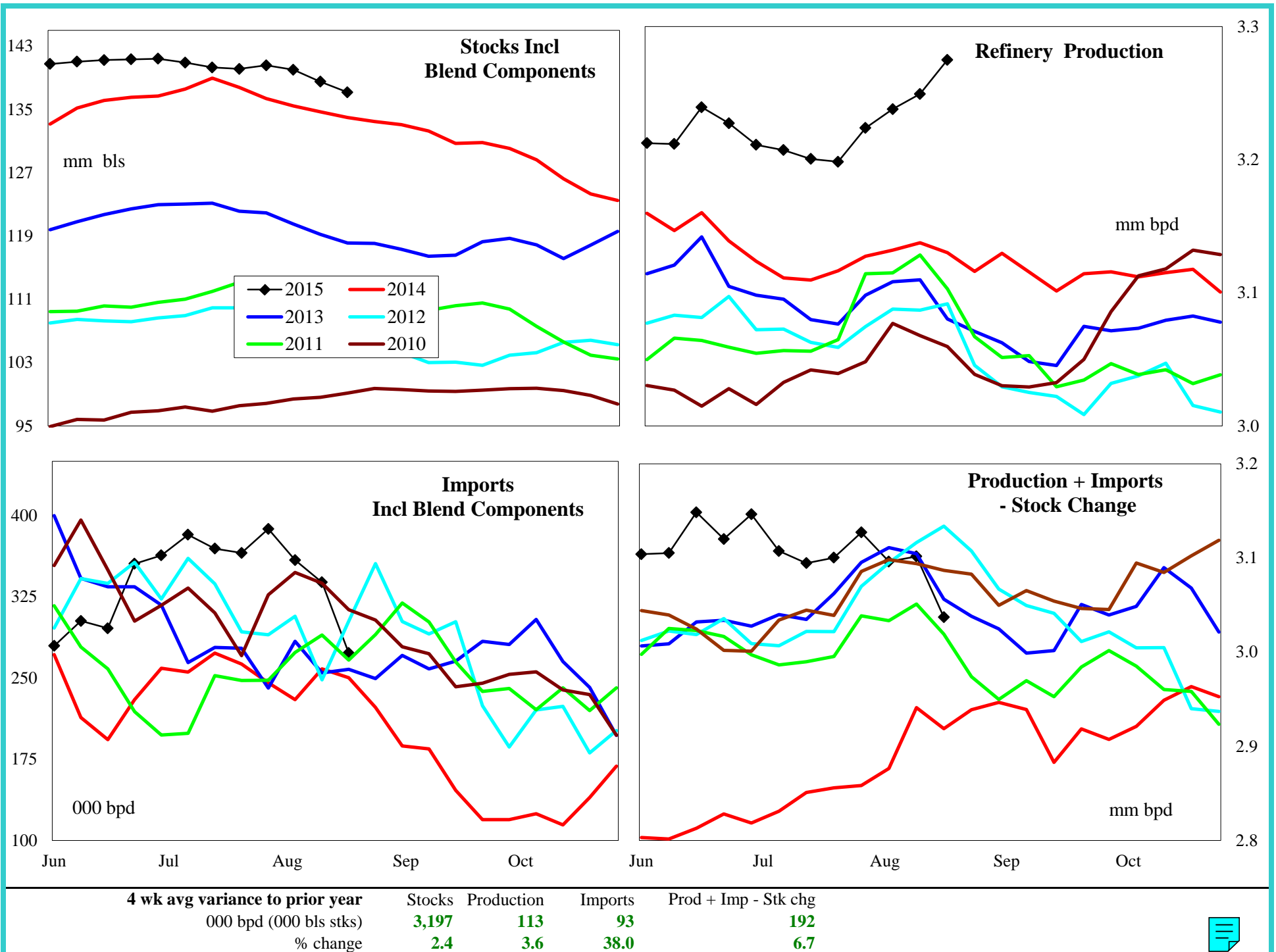
# United States Crude Oil Supply and Demand Balance



# United States Gasoline Supply and Demand Balance

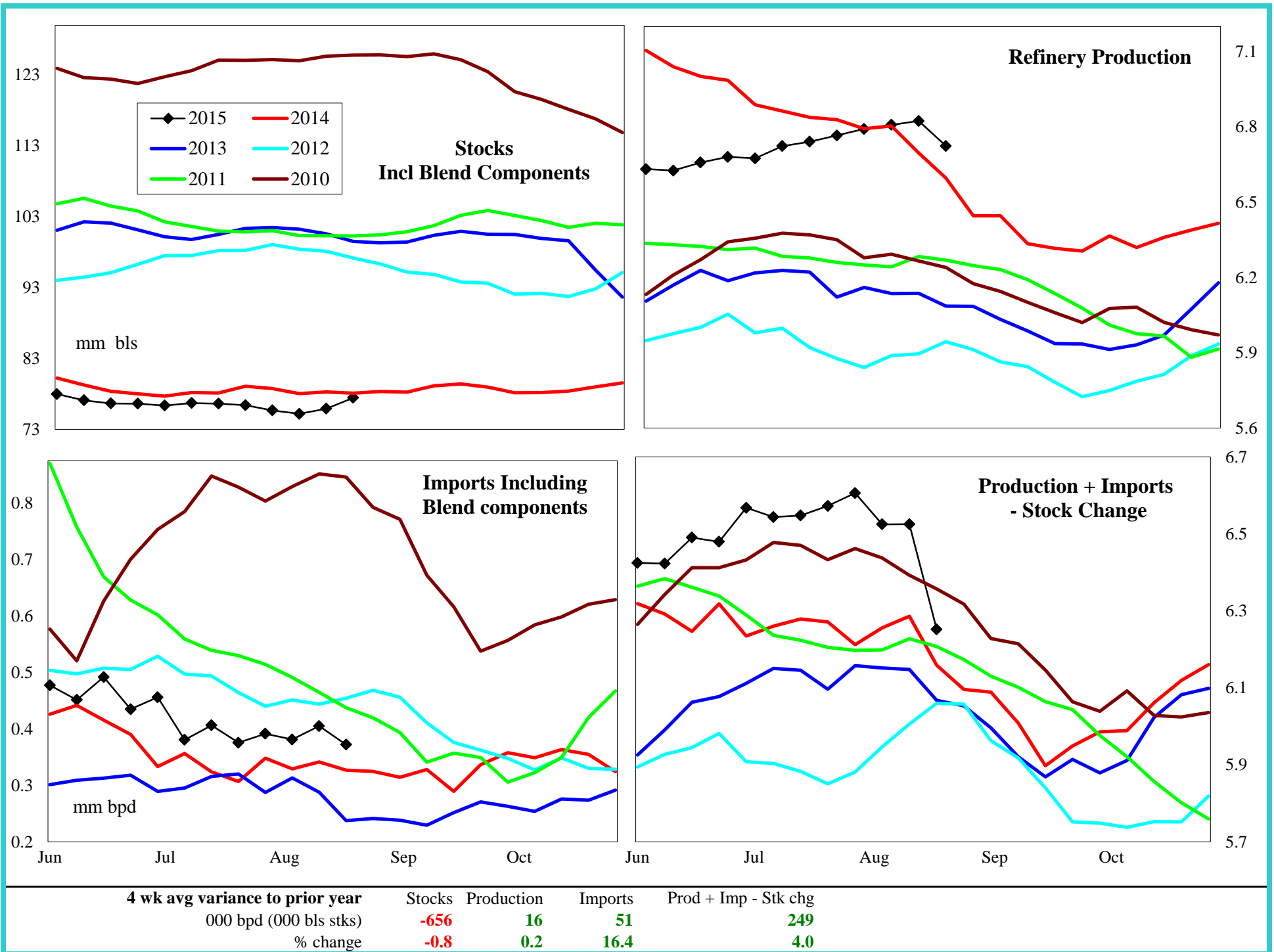


# United States Reformulated Gasoline Supply

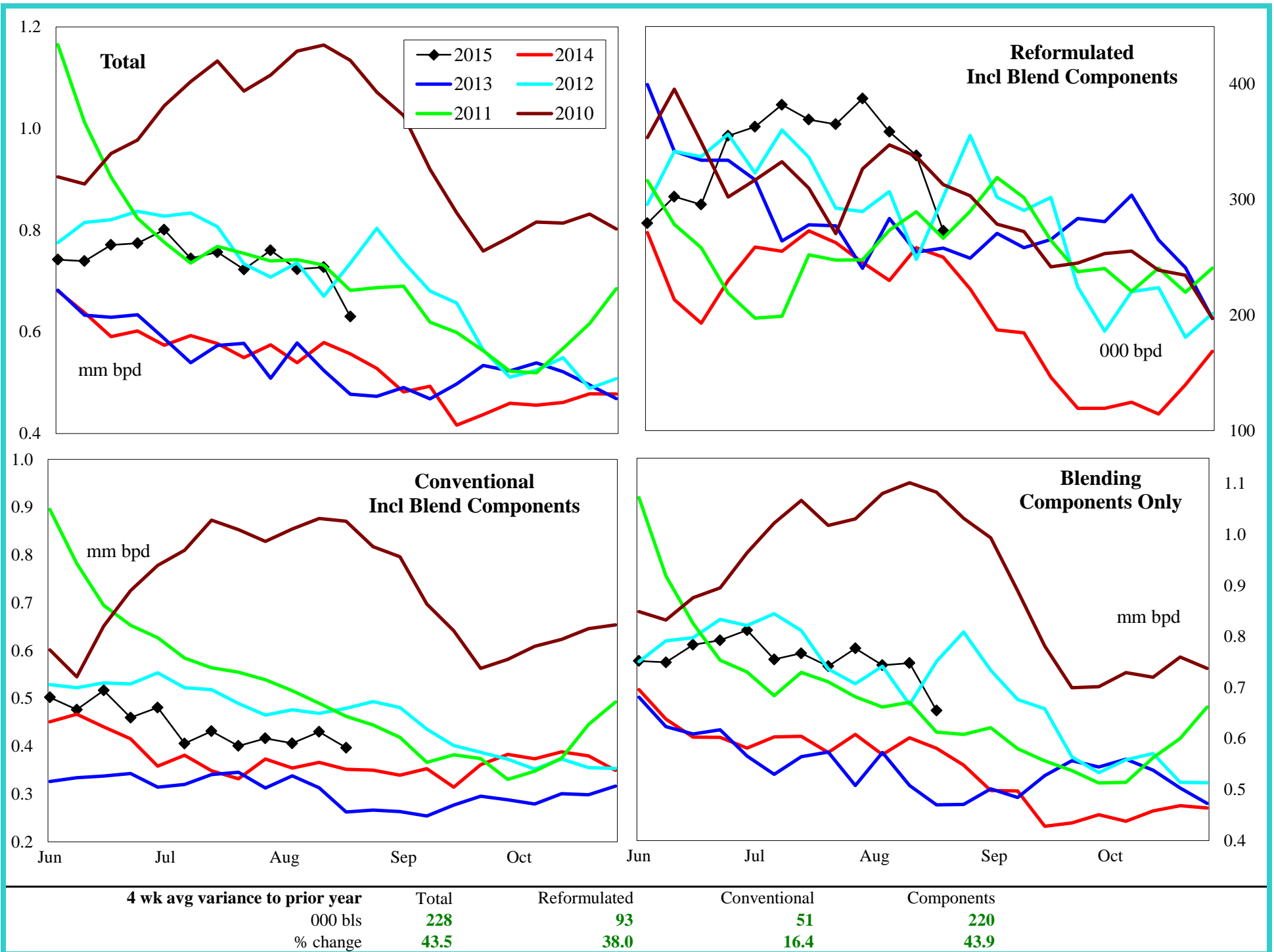




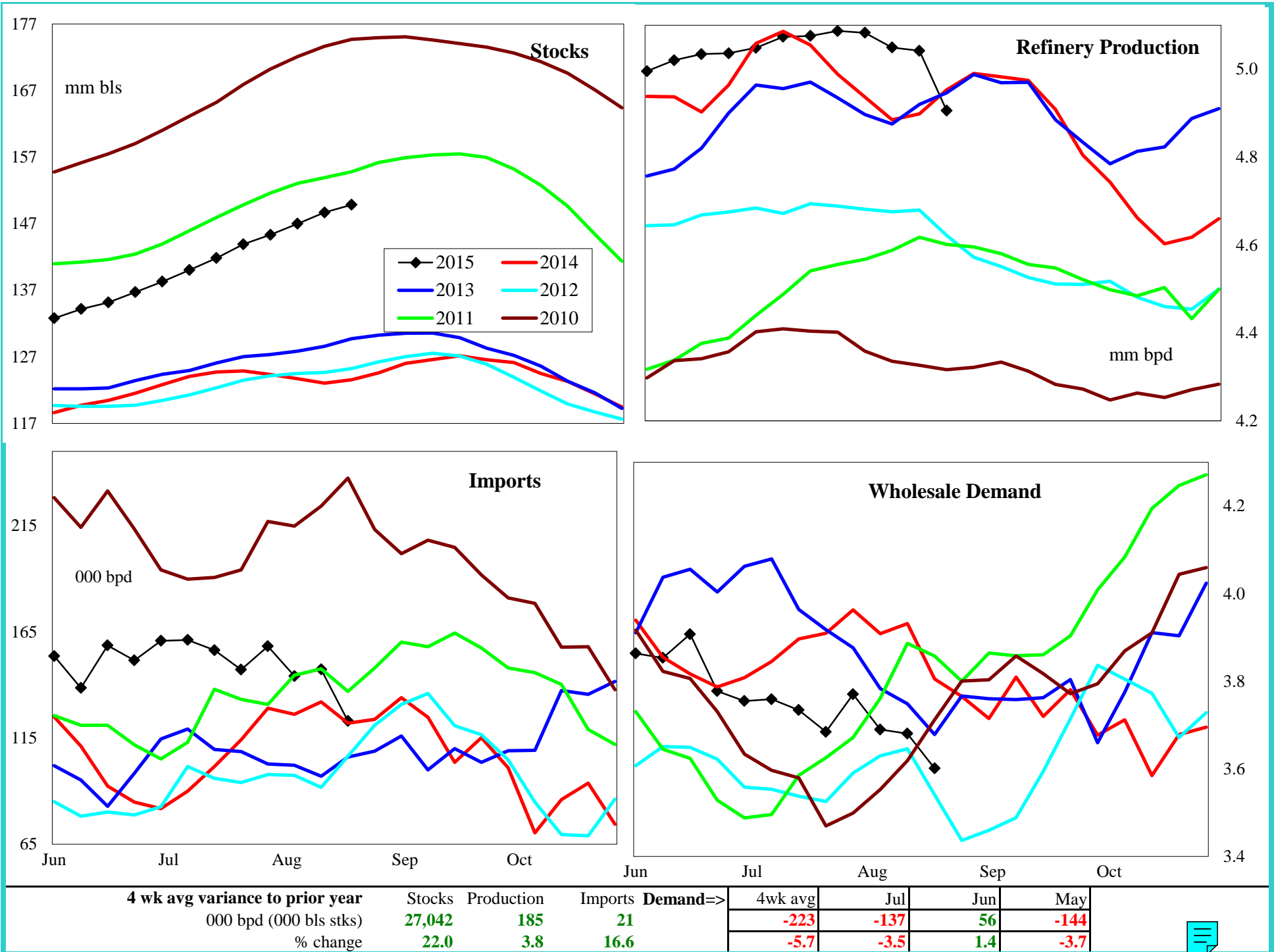
# United States Conventional Gasoline Supply



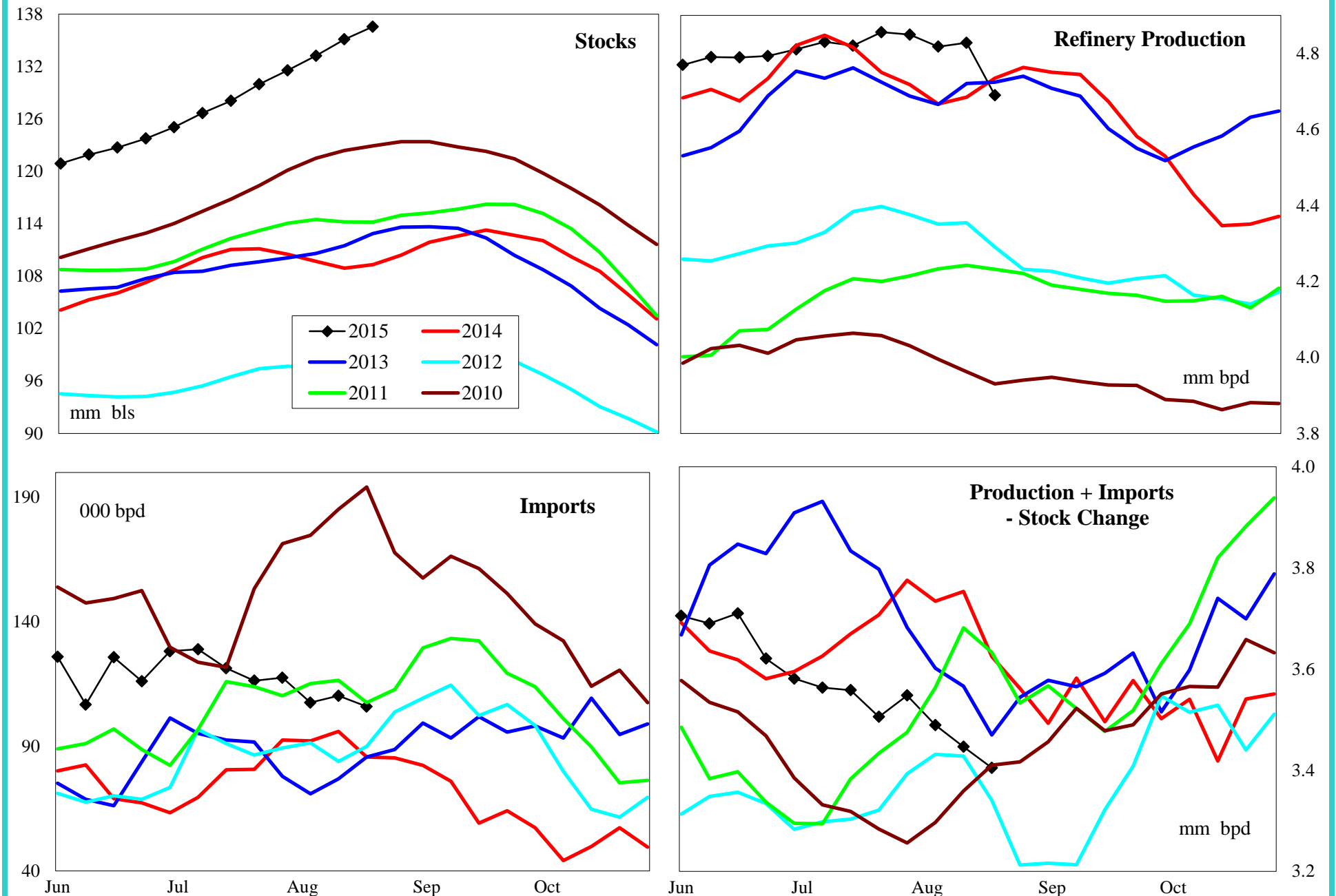
# United States Gasoline Imports by Type



# United States Distillate Supply and Demand Balance



# United States Low Sulfur Distillate Supply and Demand Balance



**4 wk avg variance to prior year**  
 000 bpd (000 bls stks)  
 % change

**Stocks**  
**28,186**  
**26.0**

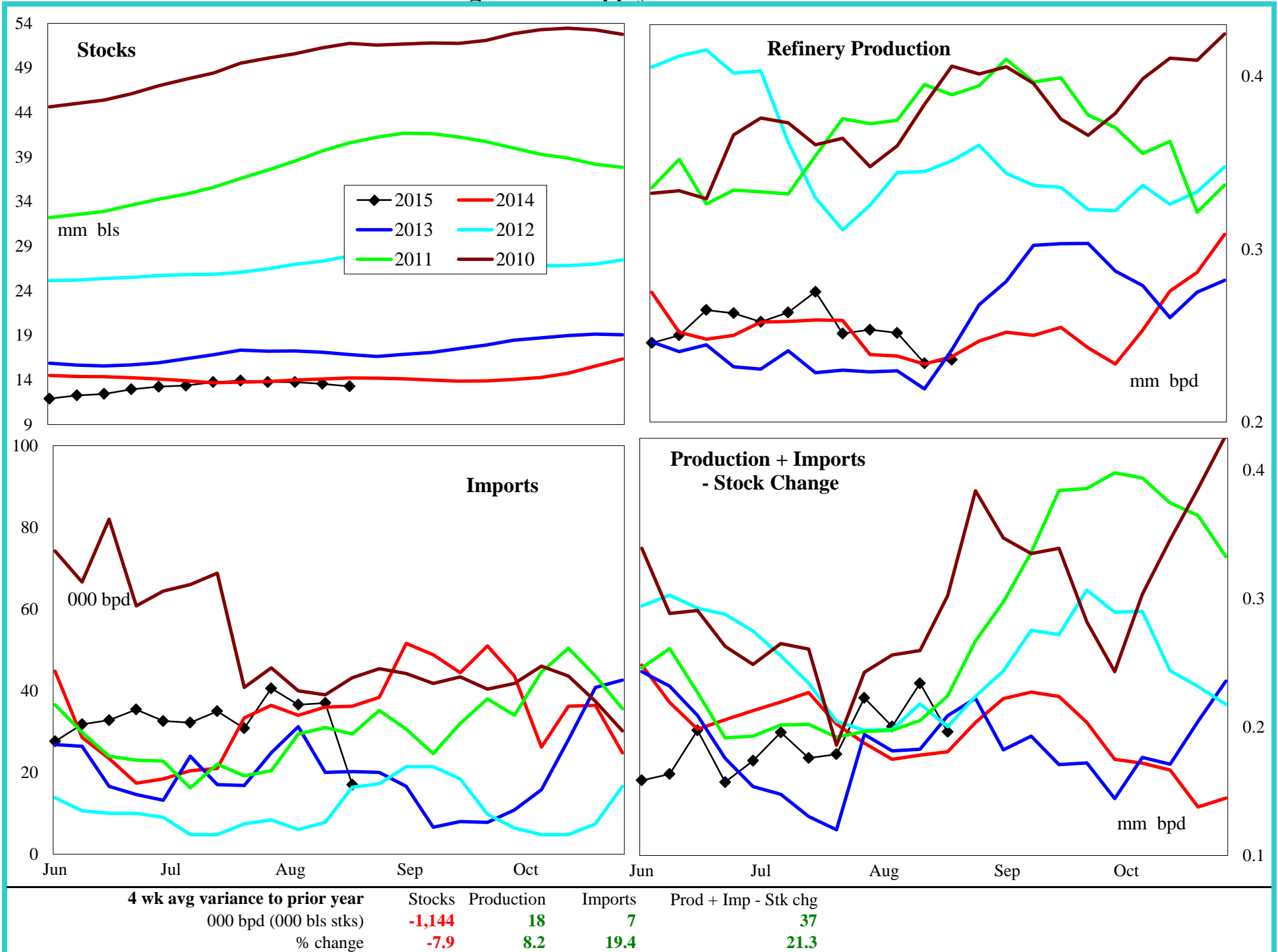
**Production**  
**167**  
**3.6**

**Imports**  
**14**  
**15.4**

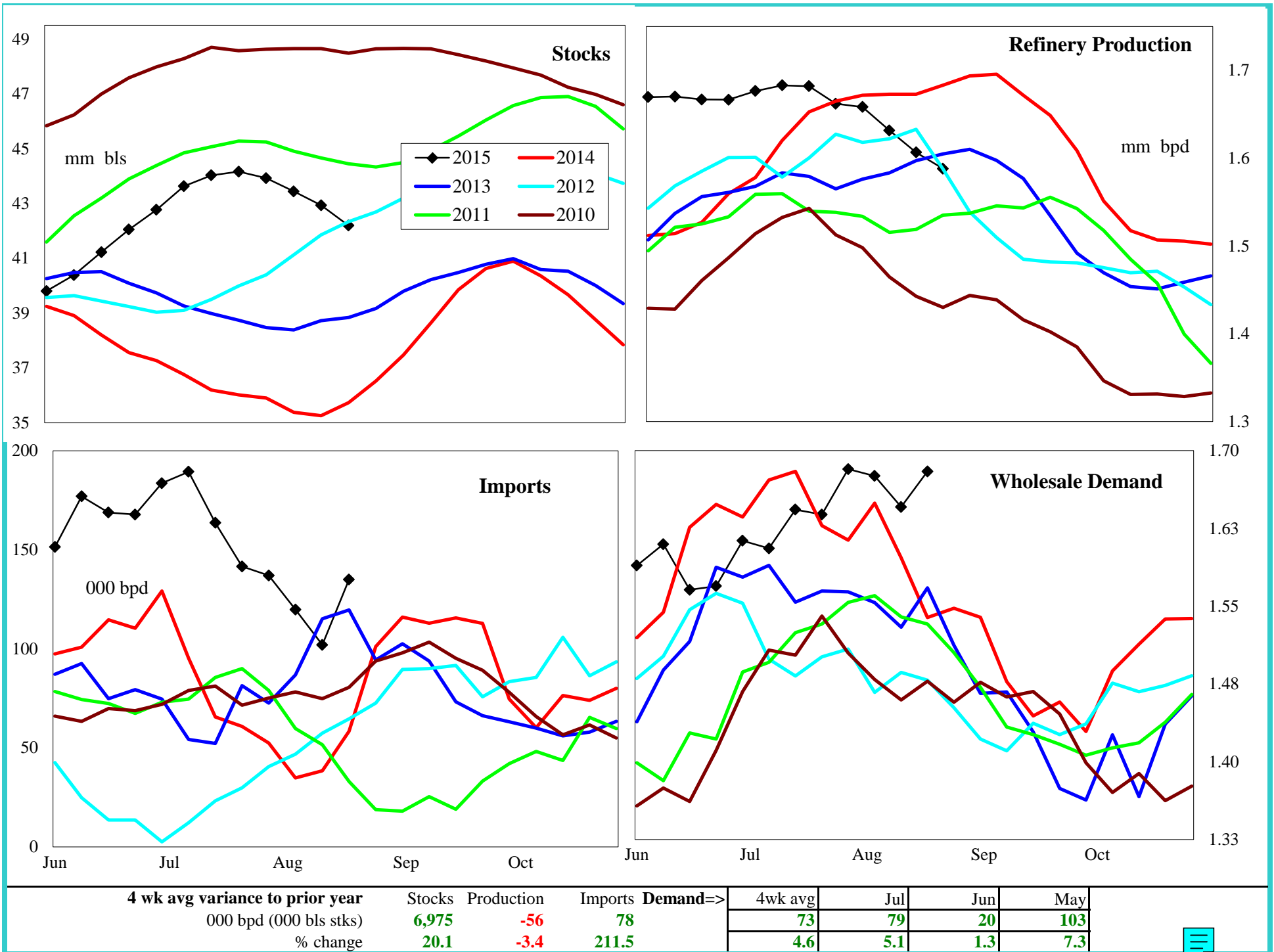
**Prod + Imp - Stk chg**  
**-259**  
**-6.9**



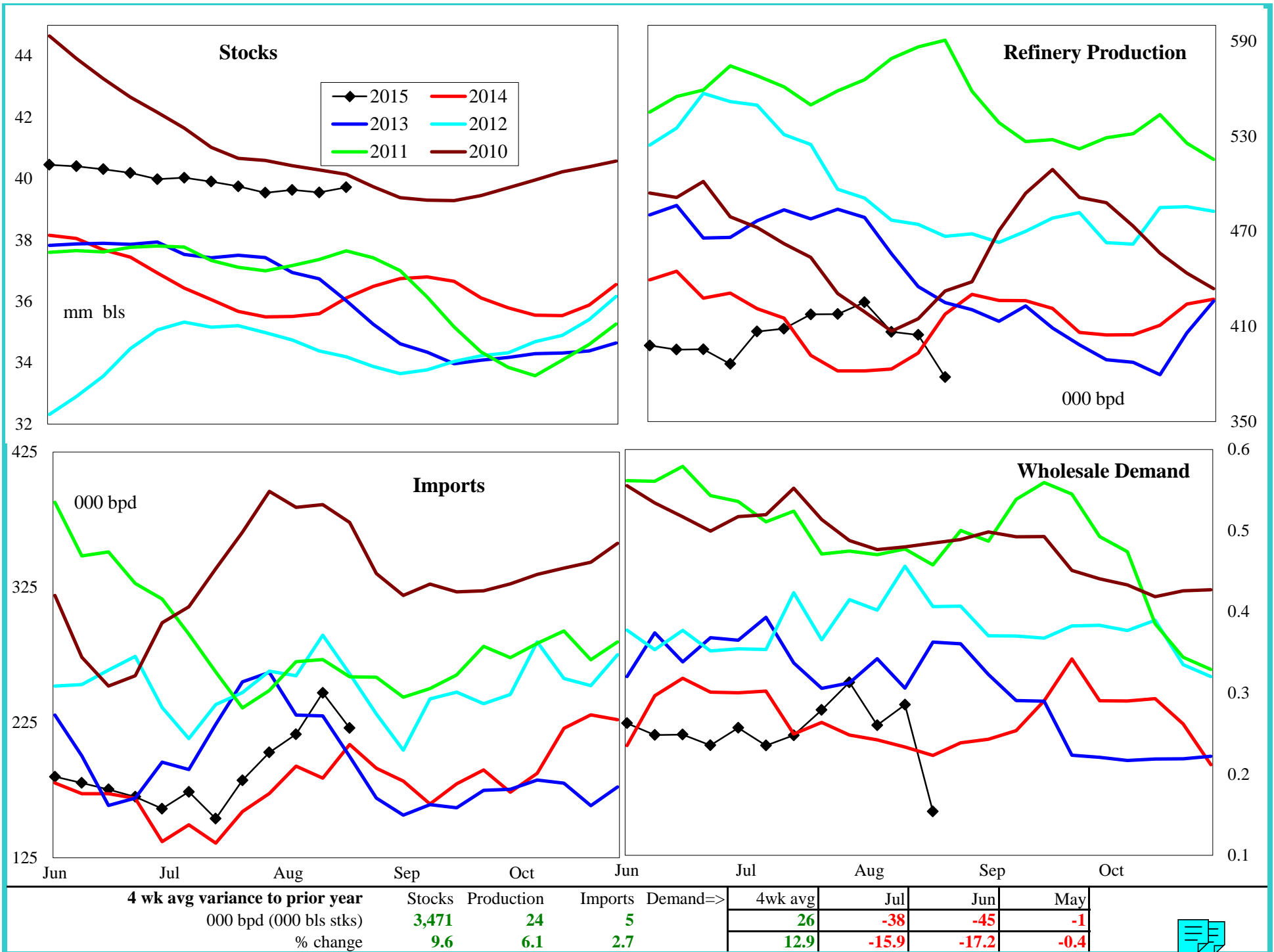
# United States High Sulfur Supply Distillate and Demand Balance



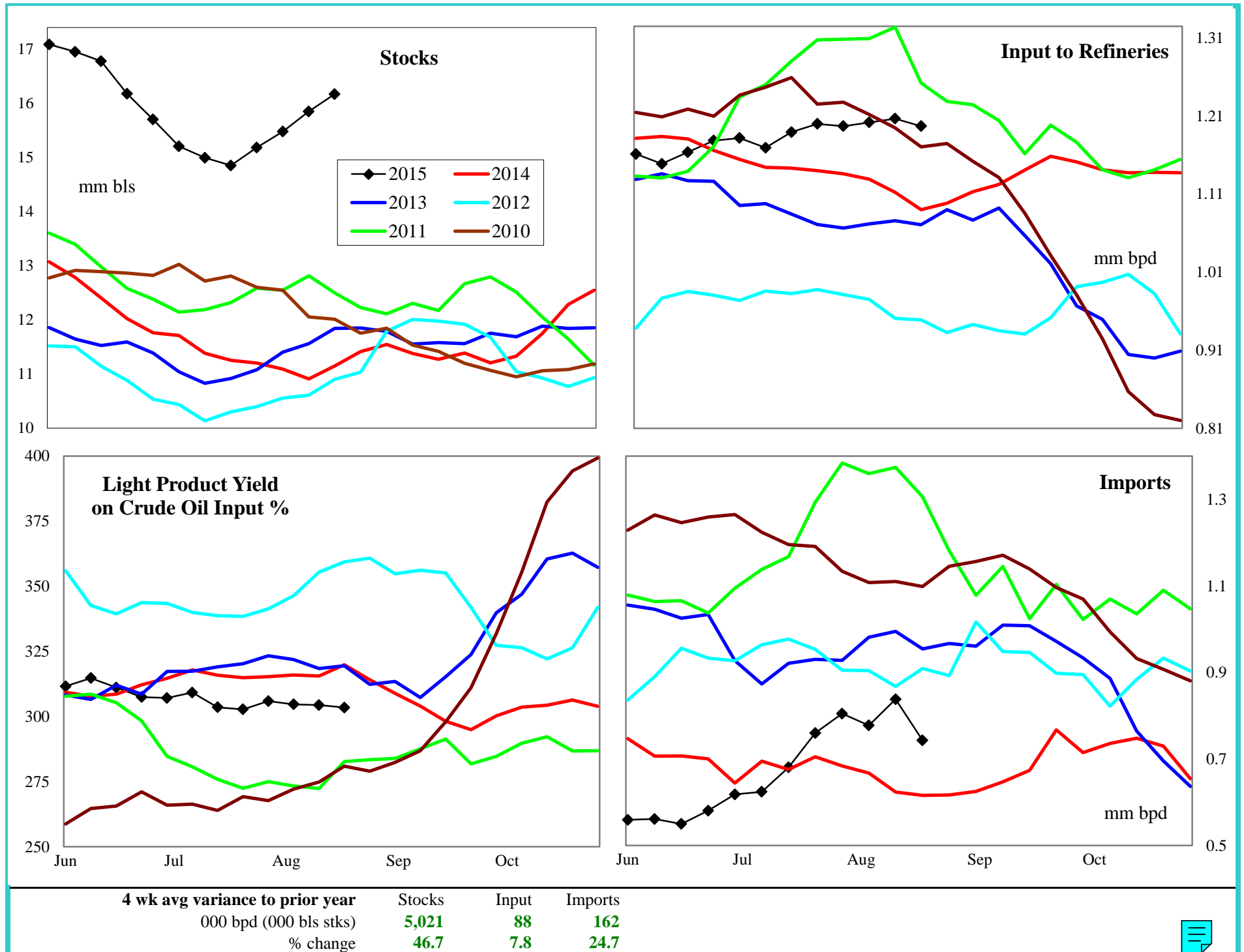
# United States Jet Fuel Supply and Demand Balance



# United States Residual Fuel Supply and Demand Balance

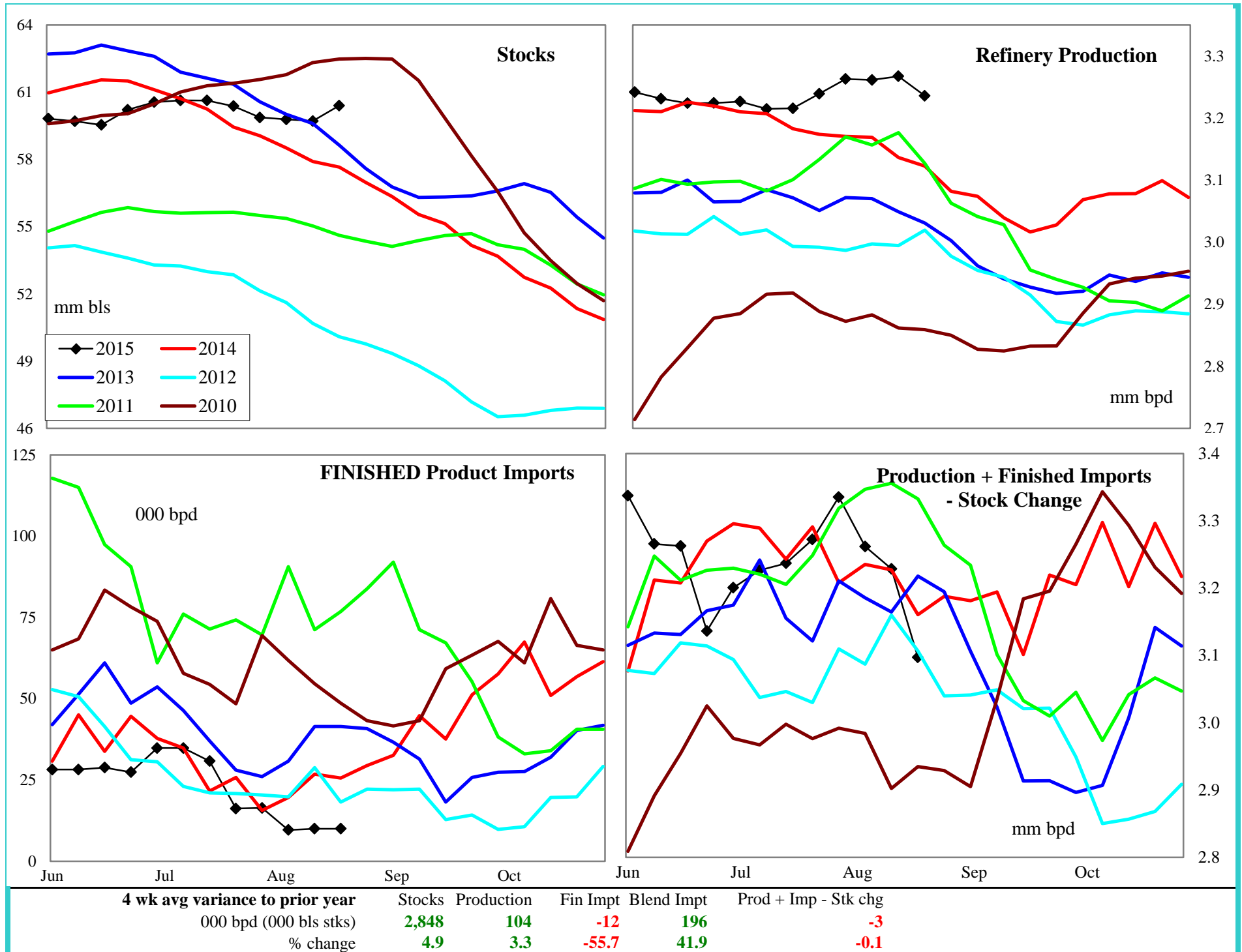


# PADD 1 Crude Oil Supply and Refining

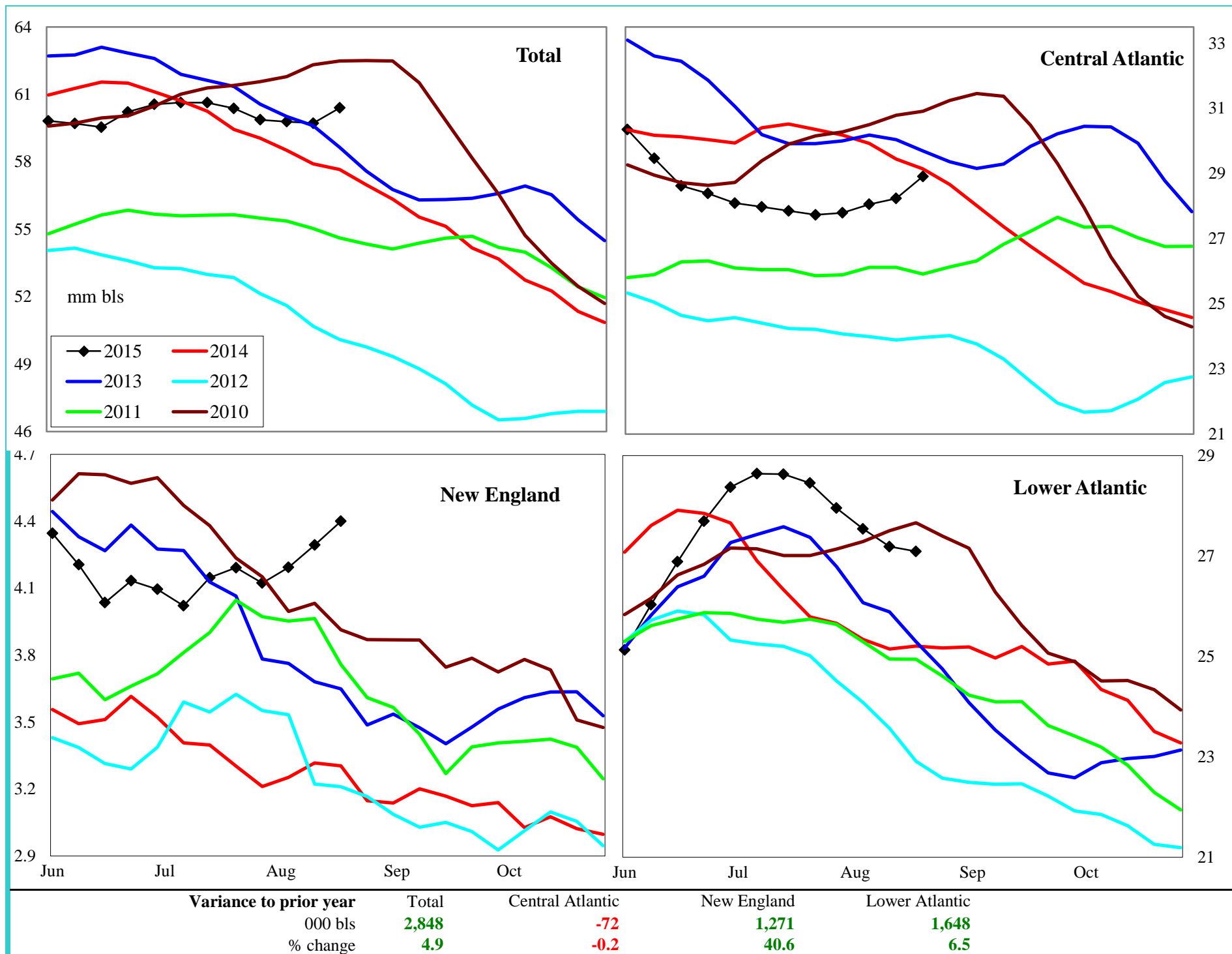




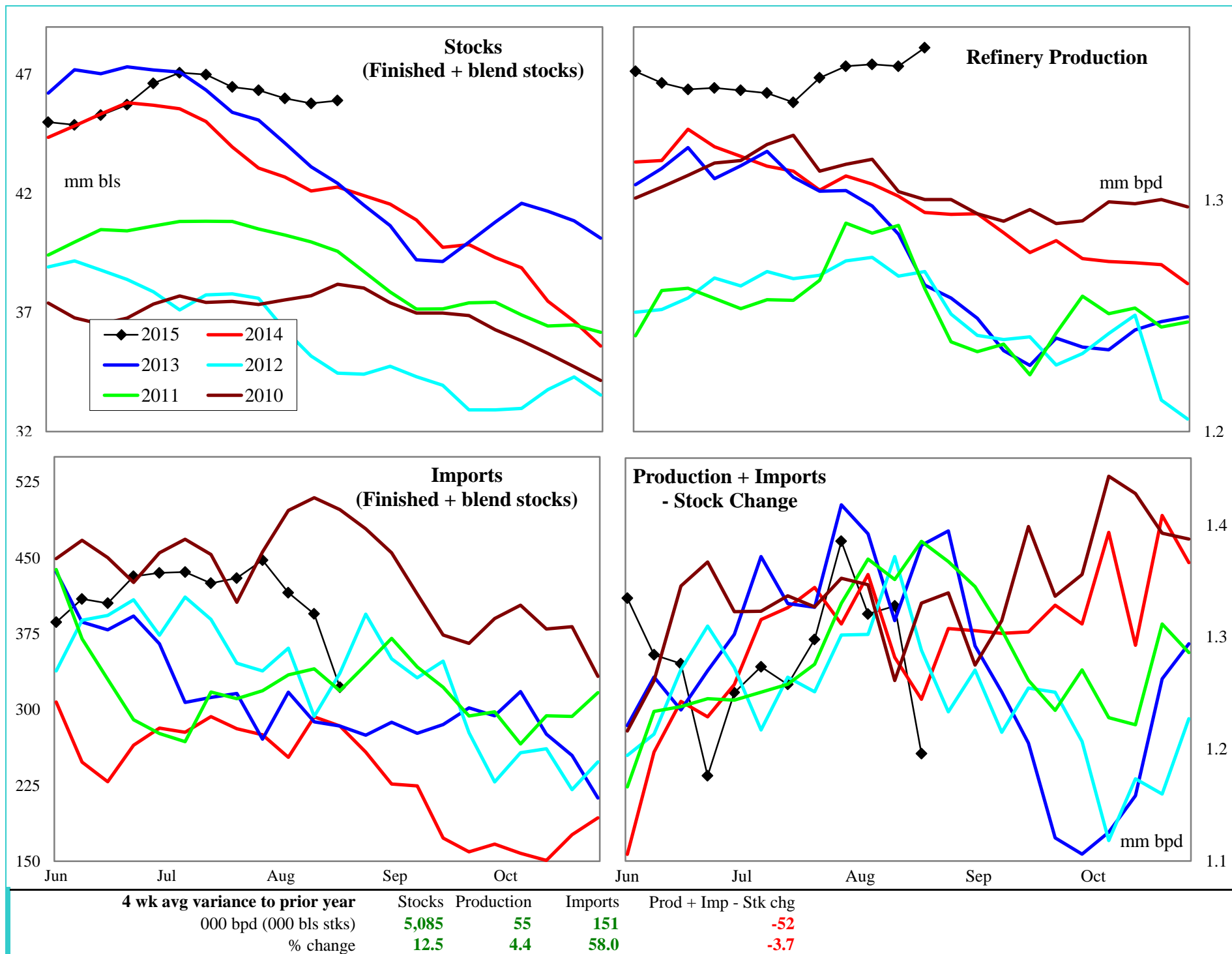
## PADD 1 Gasoline Supply



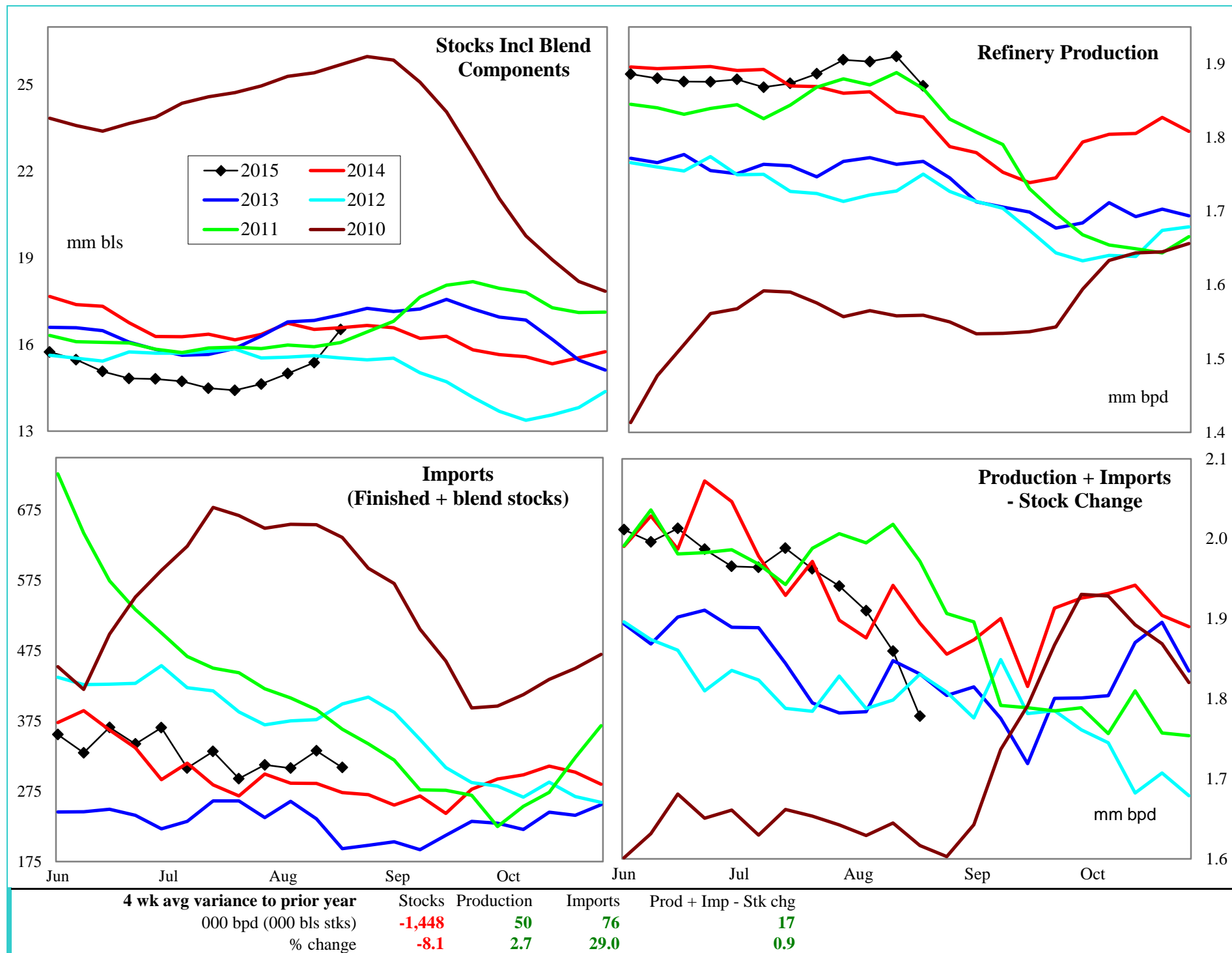
# PADD 1 Gasoline Stocks by Region



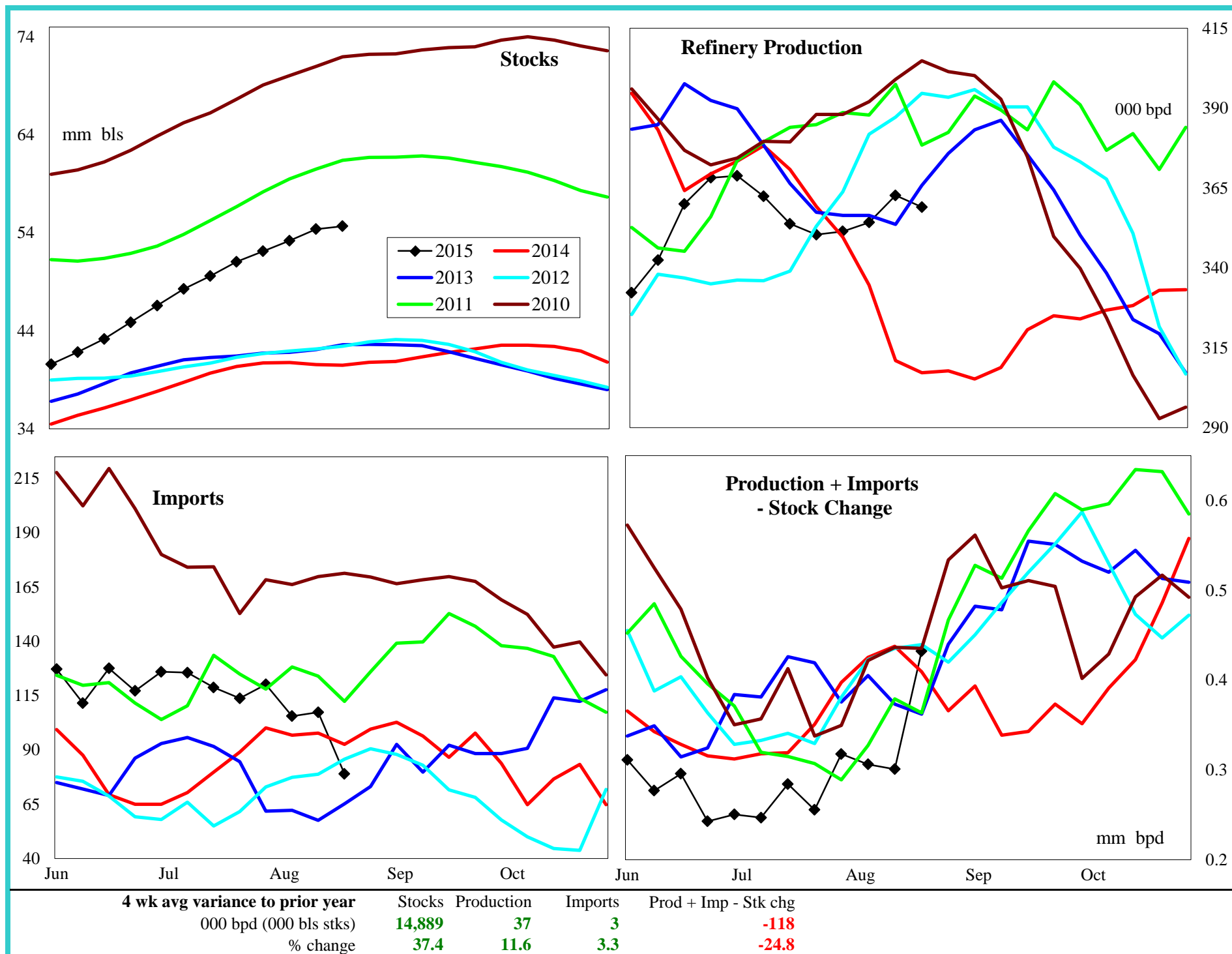
# PADD 1 Reformulated Gasoline Supply



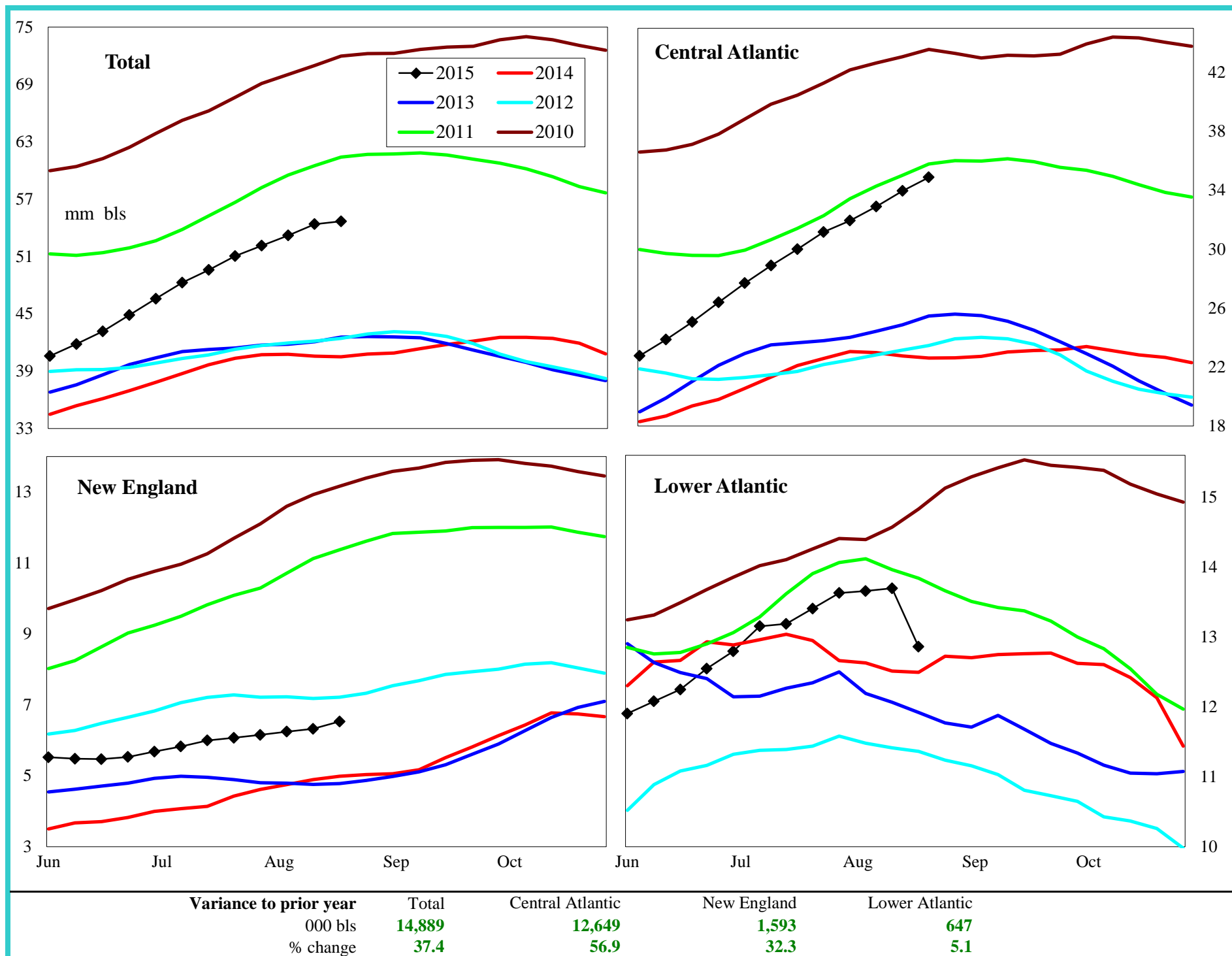
# PADD 1 Conventional Gasoline Supply



# PADD 1 Distillate Supply

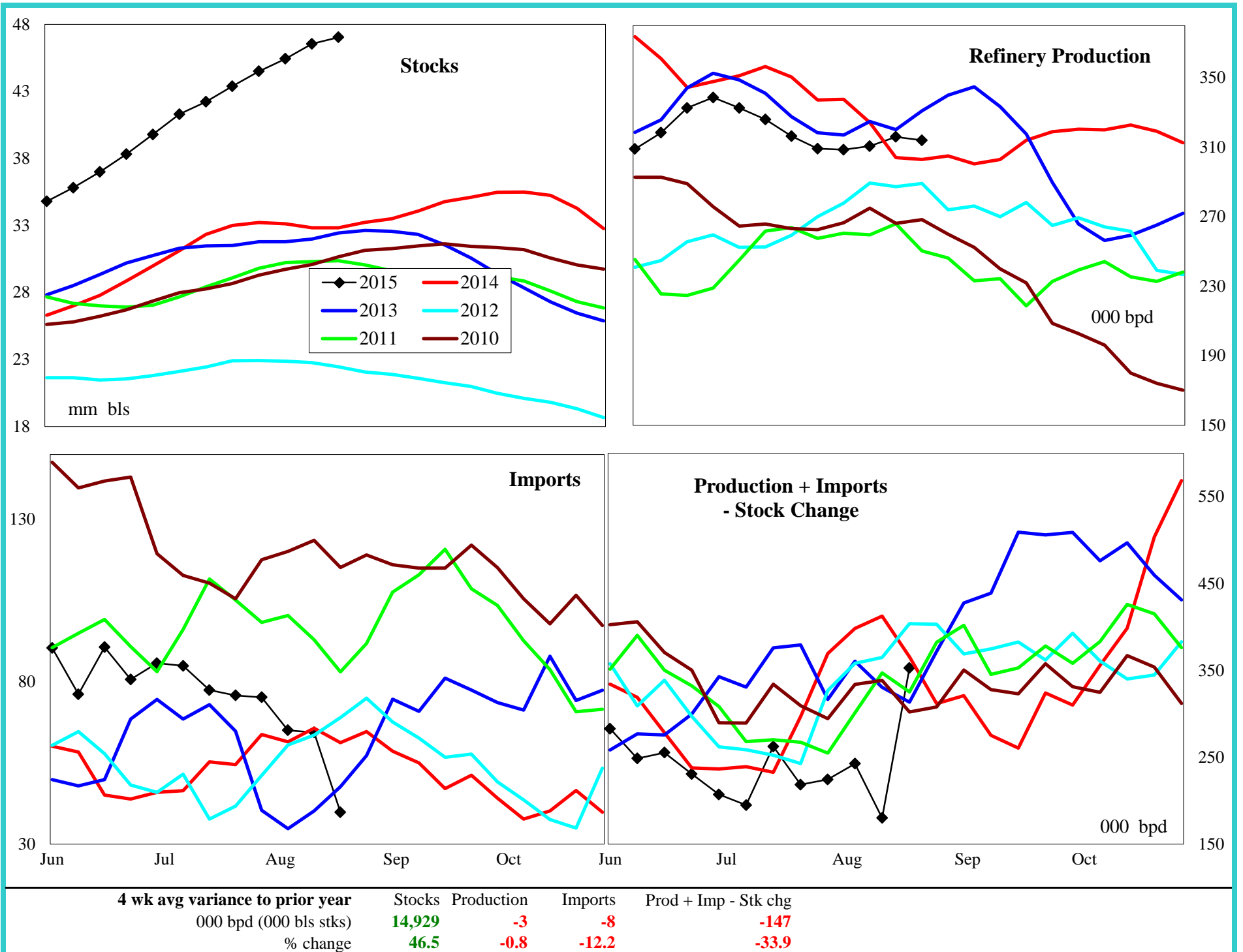


# PADD 1 Distillate Stocks by Region

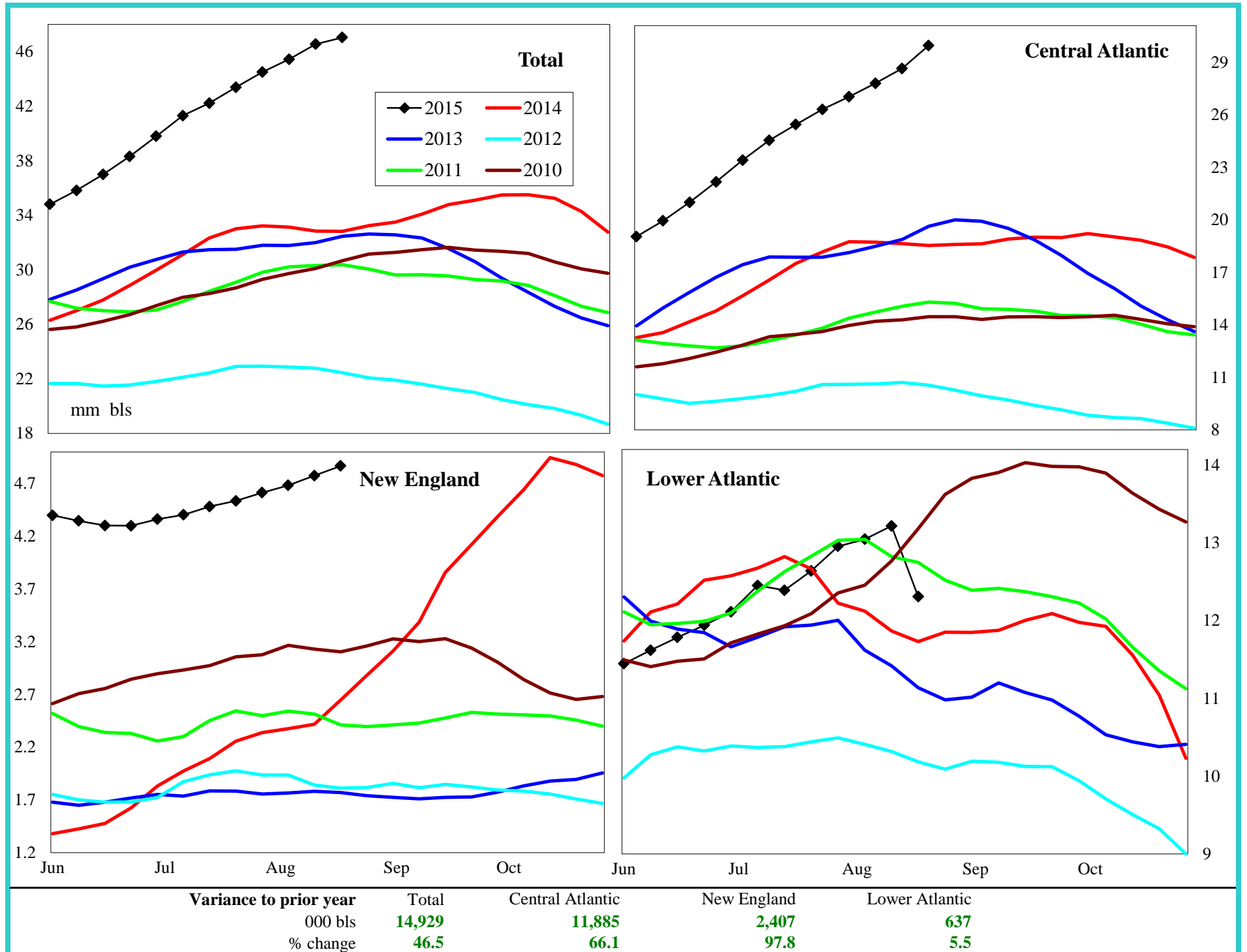




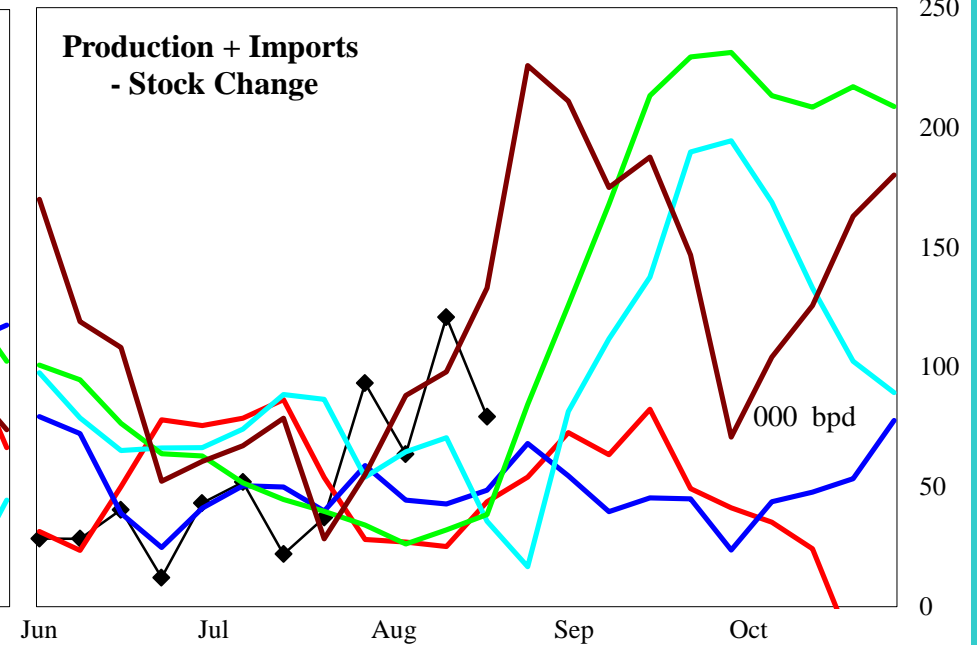
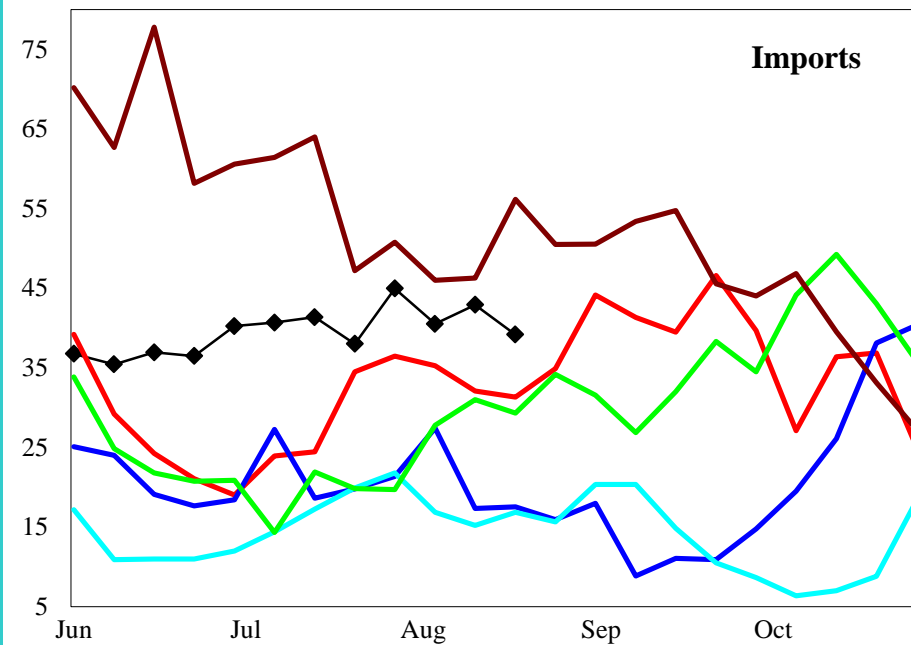
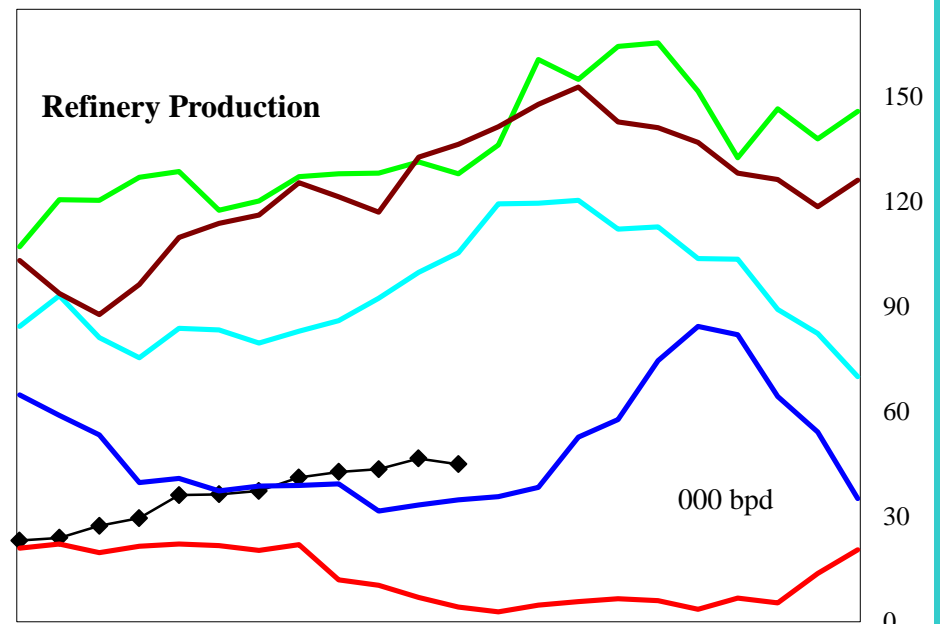
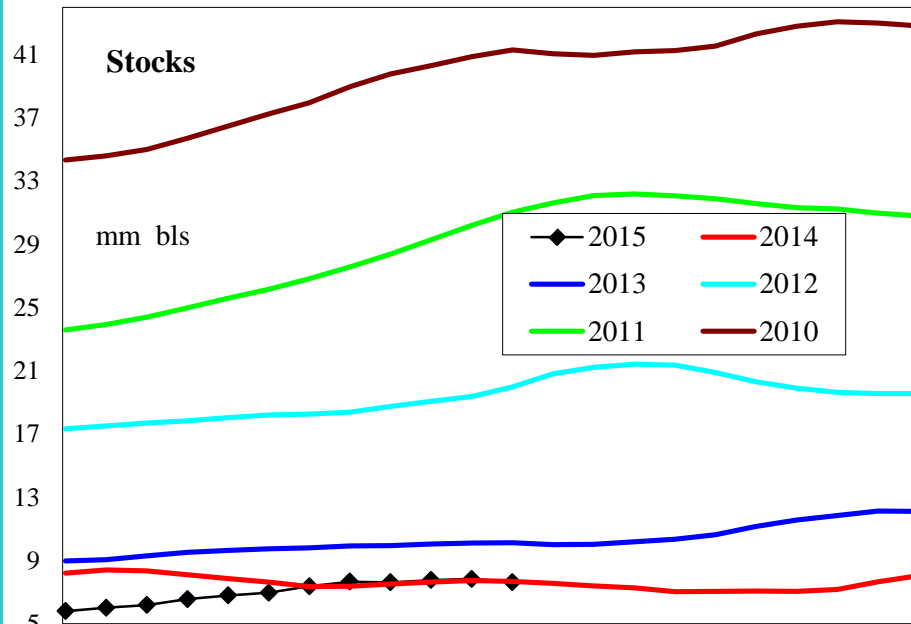
# PADD 1 Low Sulfur Distillate Supply



# PADD 1 Low Sulfur Distillate Stocks by Region



# PADD 1 High Sulfur Distillate Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

-40

-0.5

Production

40

567.9

Imports

11

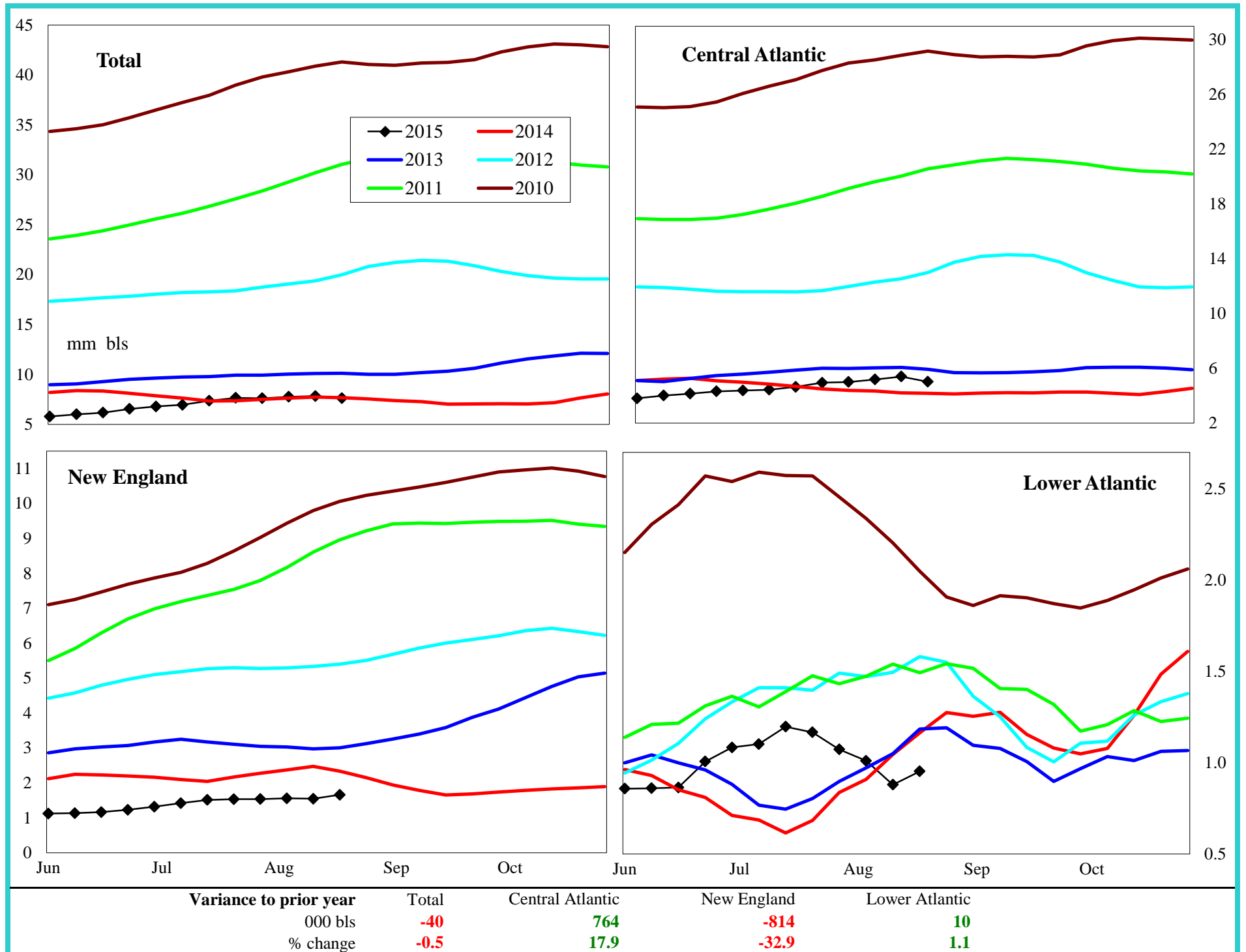
32.1

Prod + Imp - Stk chg

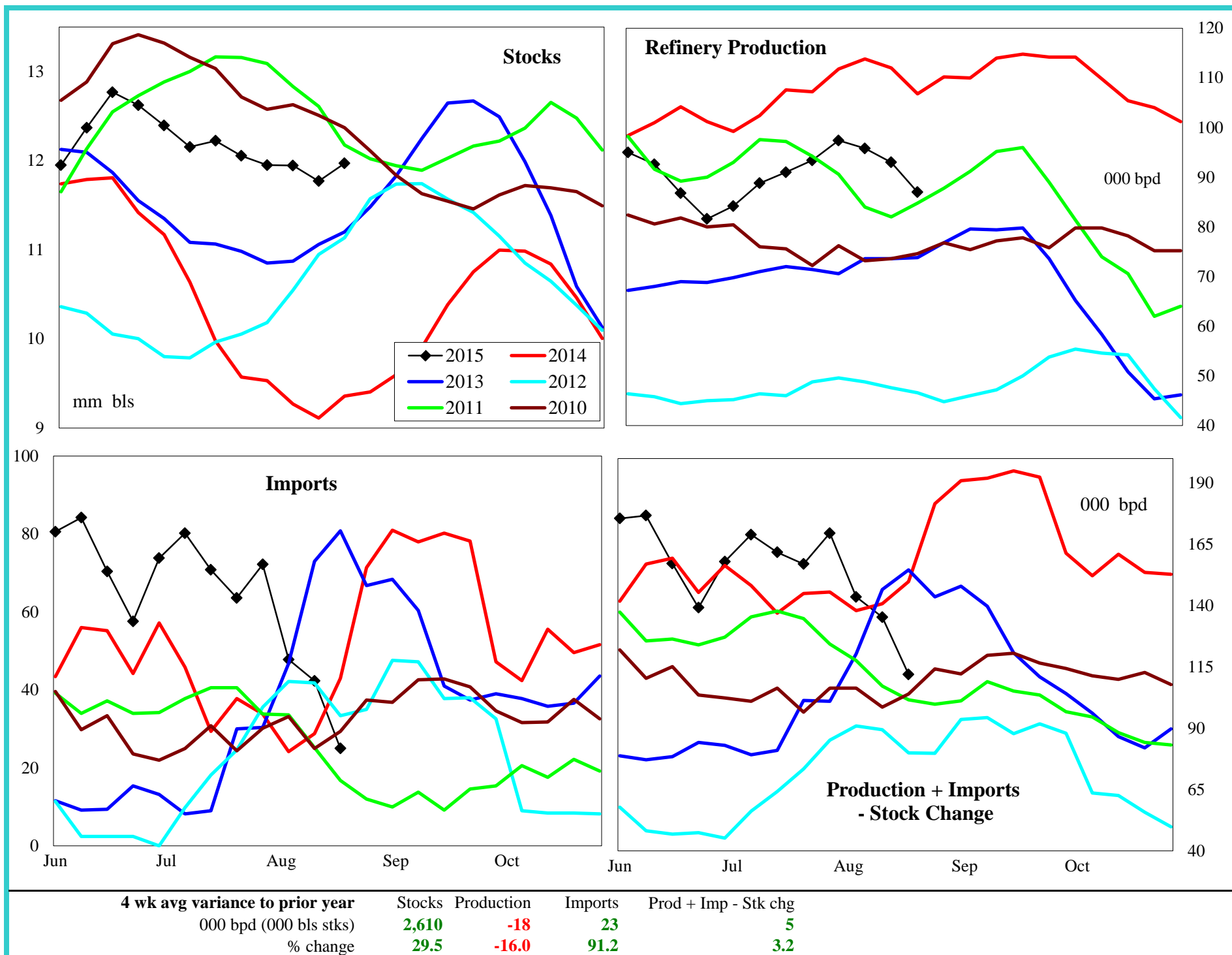
29

69.8

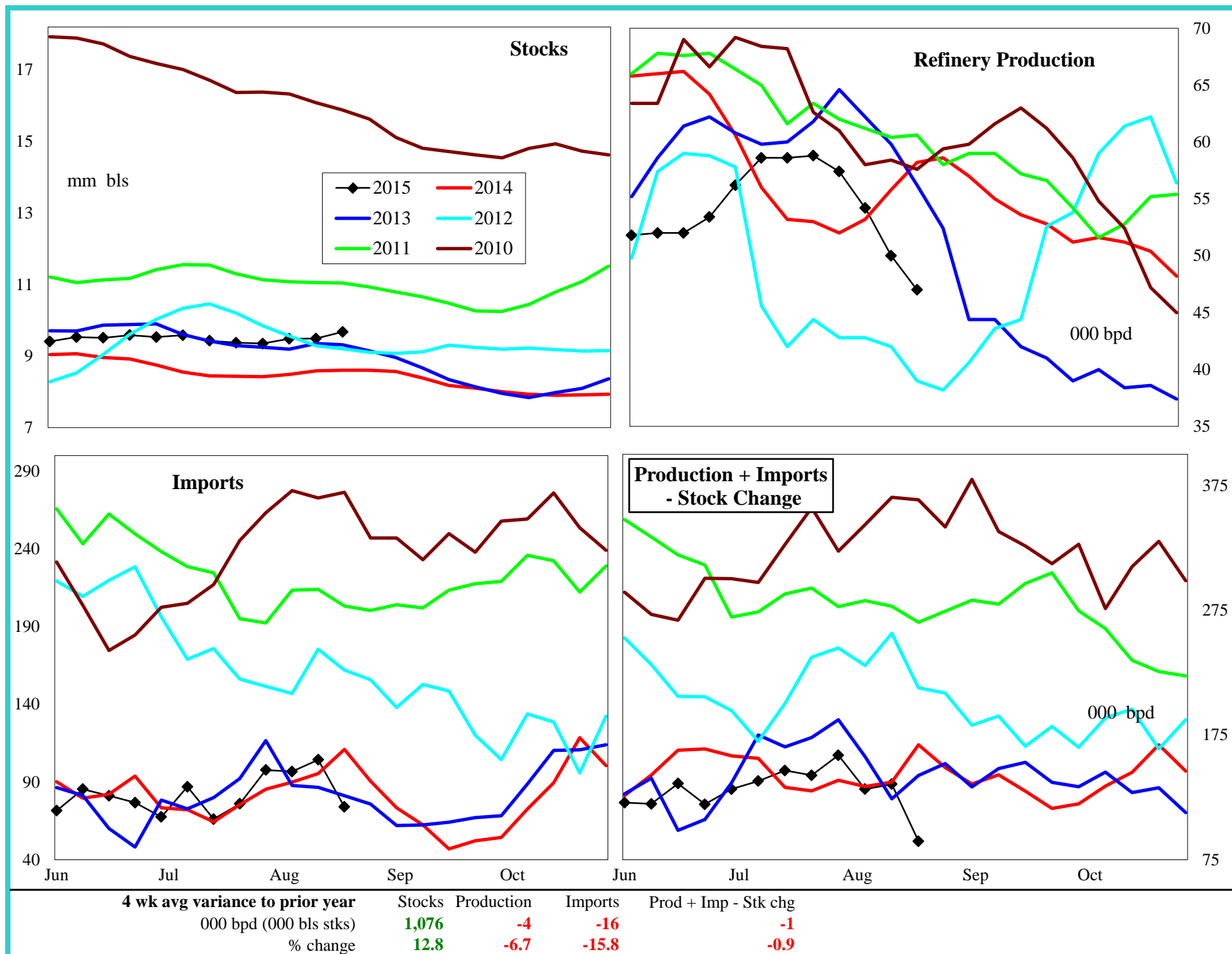
# PADD 1 High Sulfur Distillate Stocks by Region



# PADD 1 Jet Fuel Supply

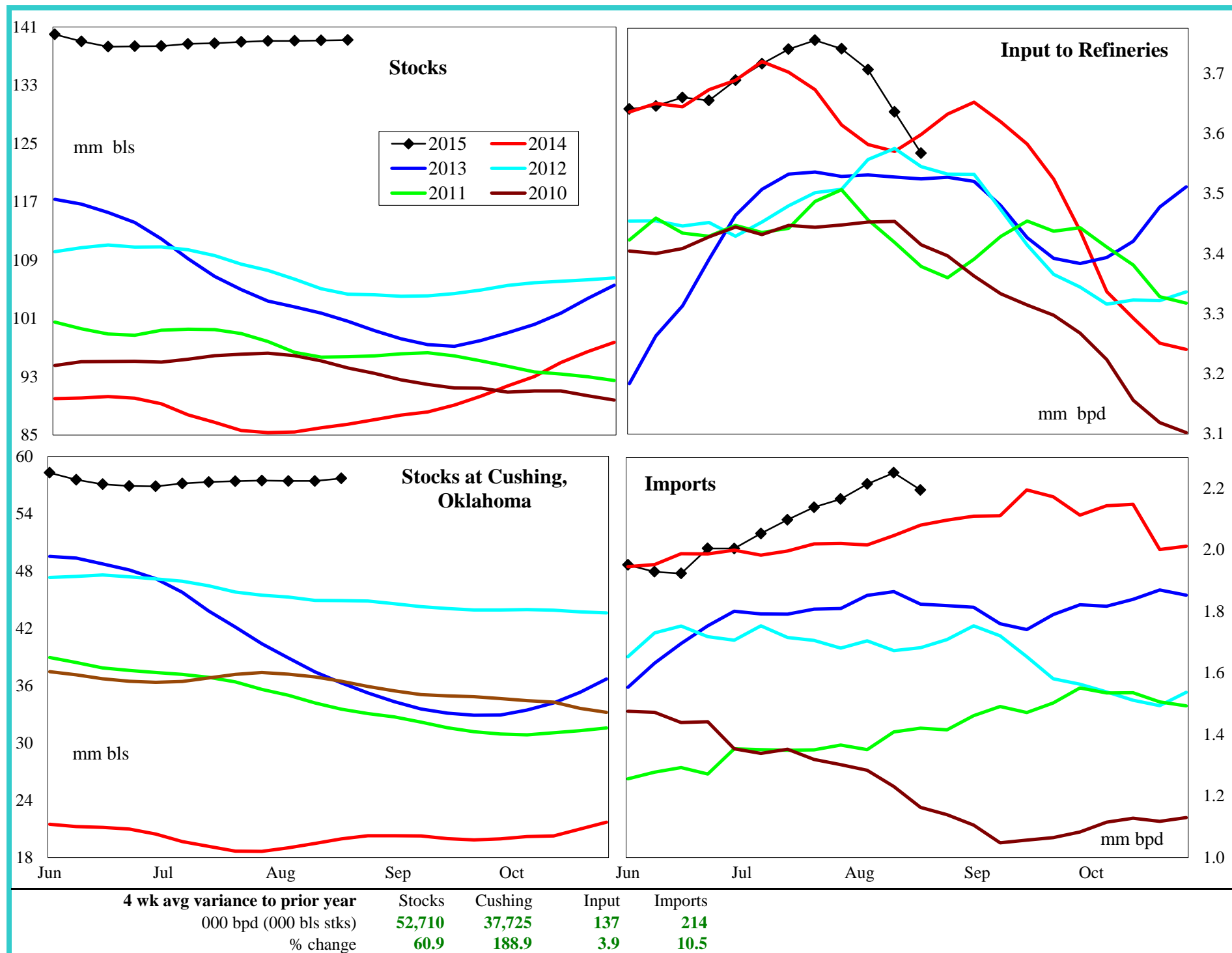


# PADD 1 Residual Fuel Oil Supply

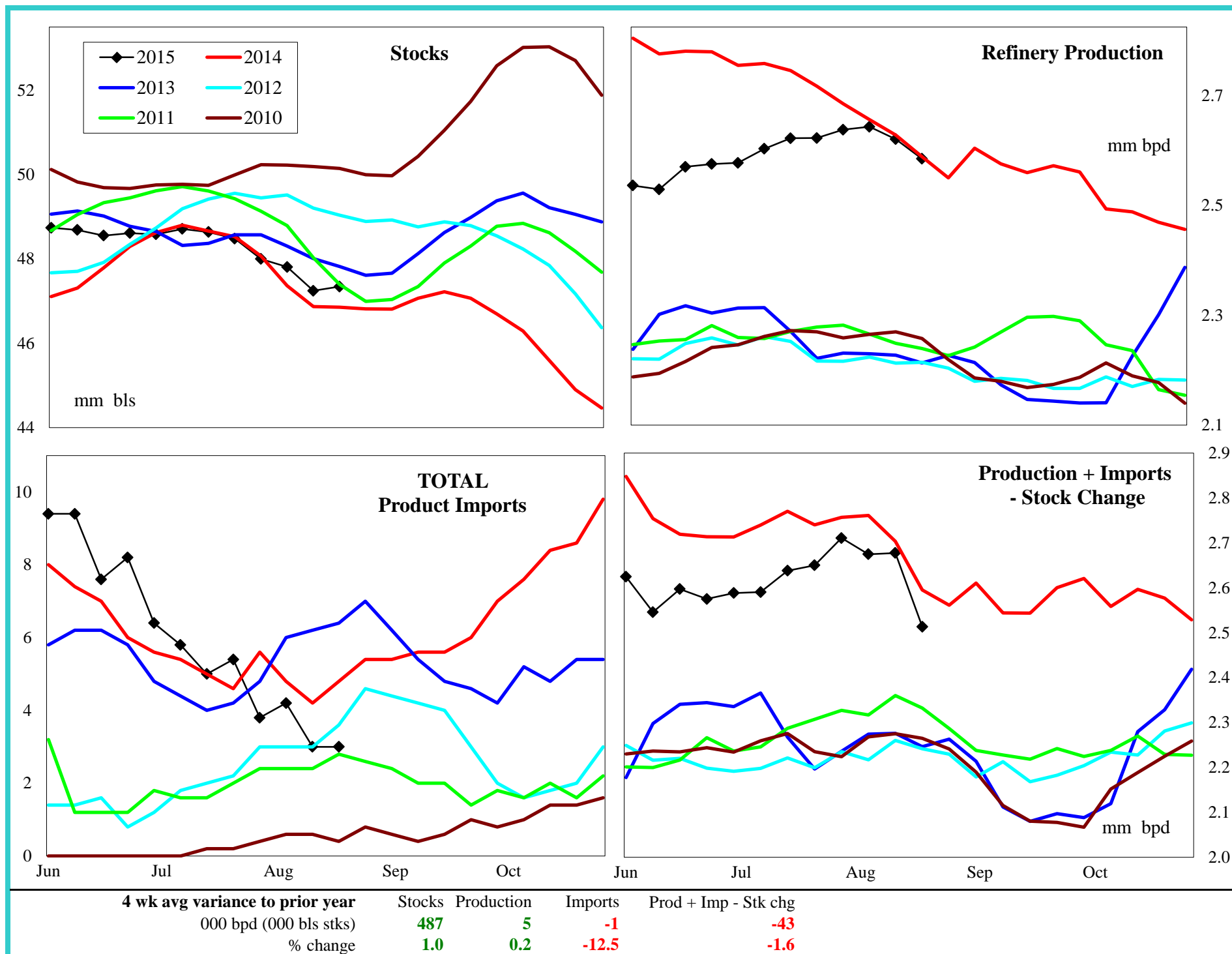




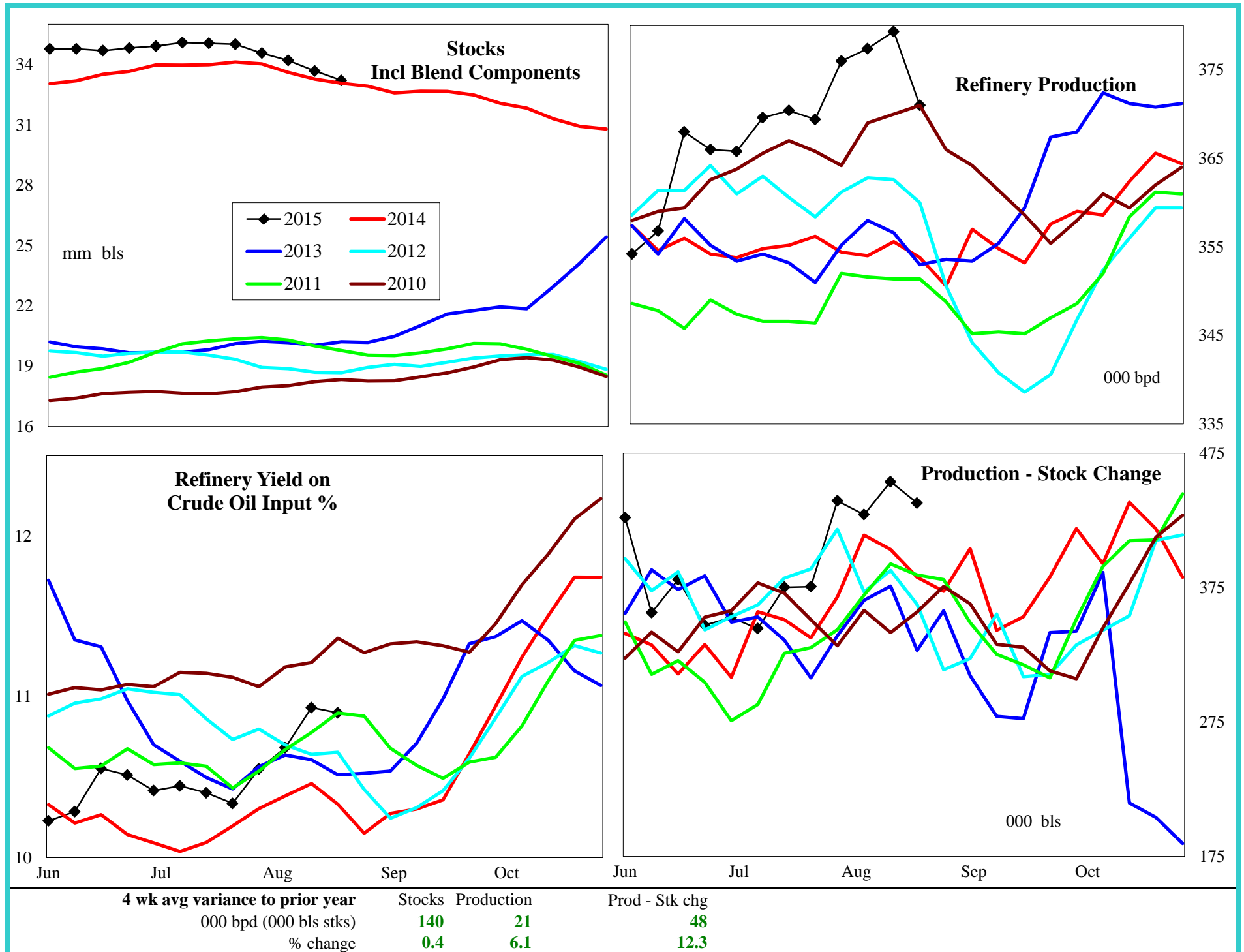
# PADD 2 Crude Oil Supply and Refining



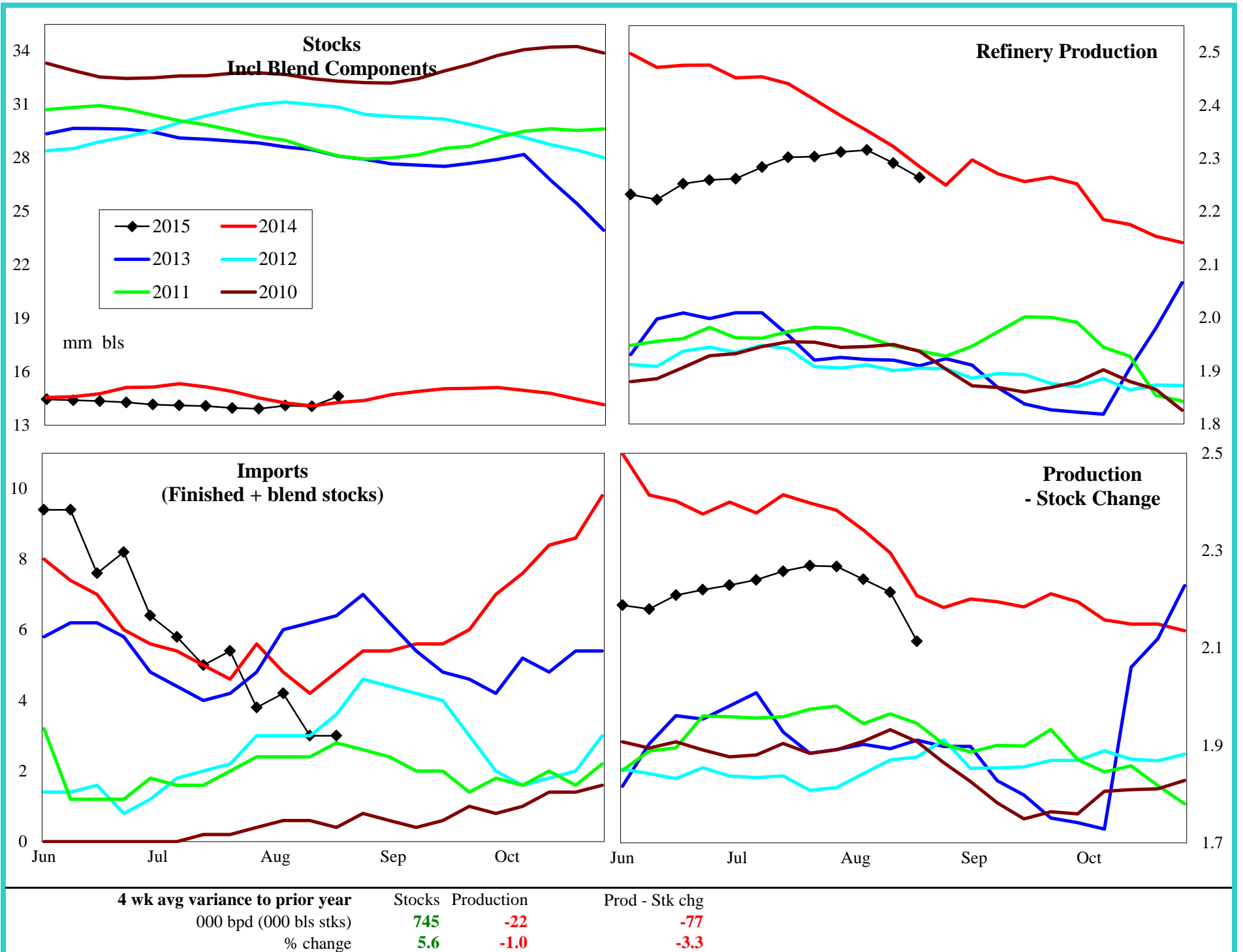
## PADD 2 Gasoline Supply



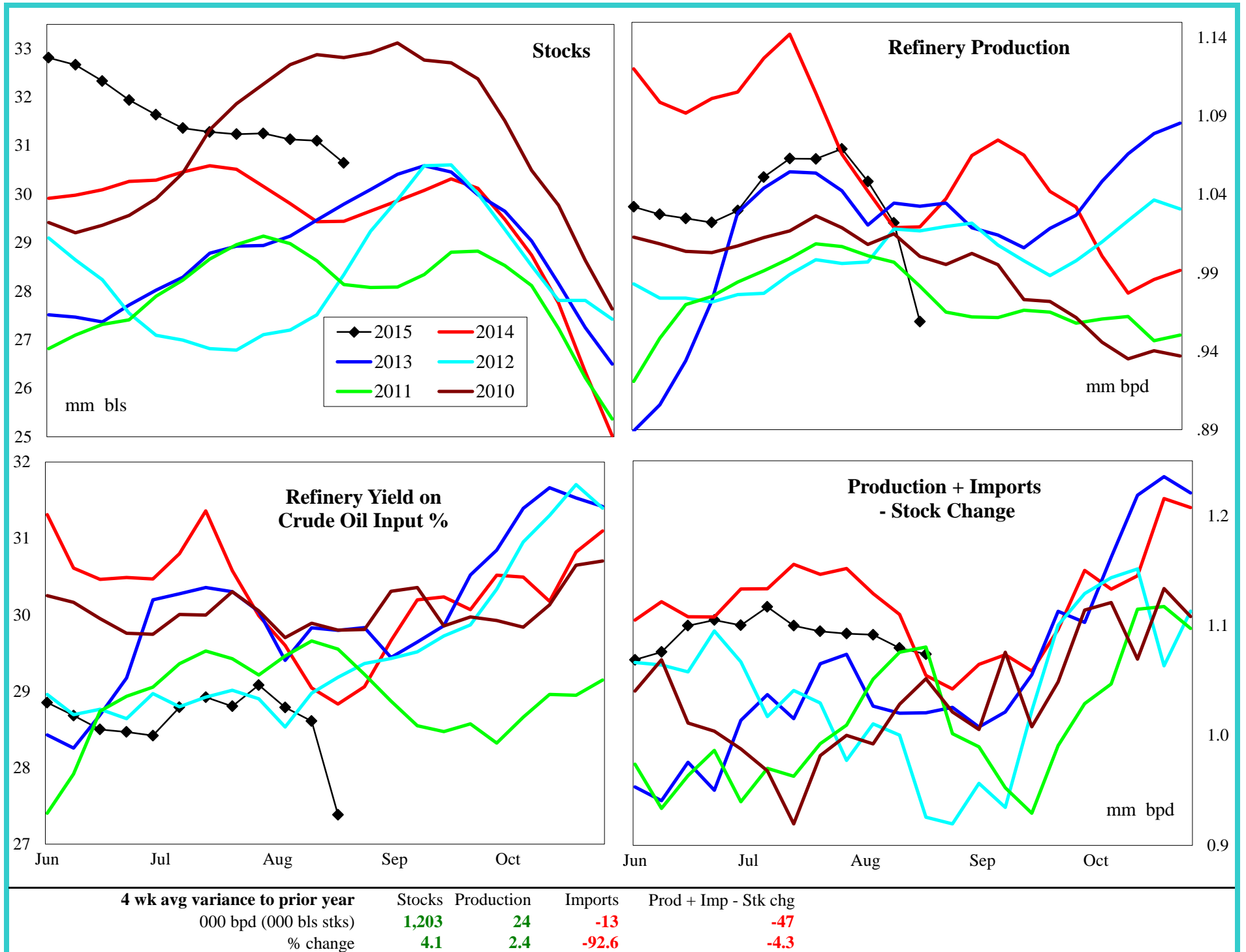
# PADD 2 Reformulated Gasoline Supply



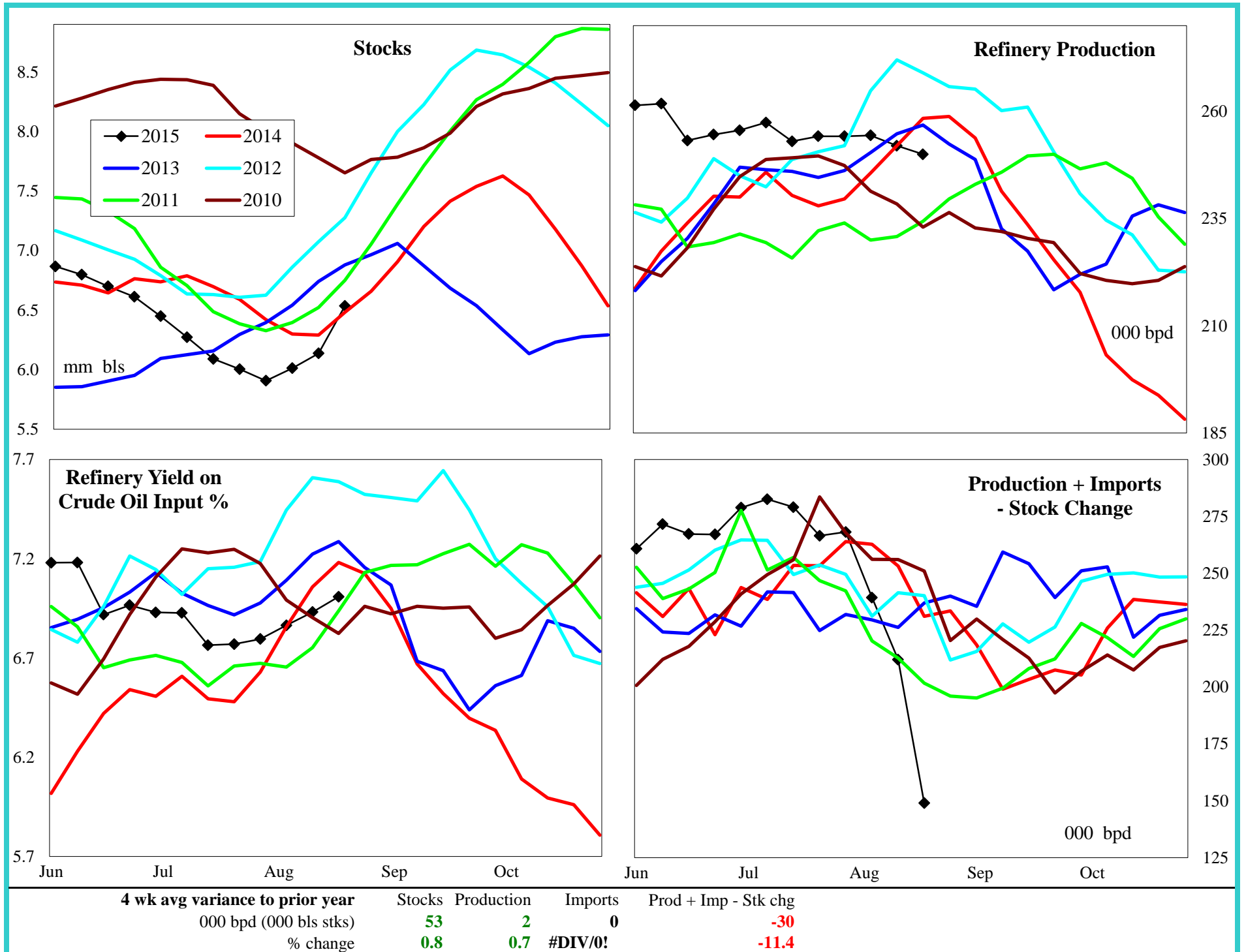
# PADD 2 Conventional Gasoline Supply



# PADD 2 Distillate Supply

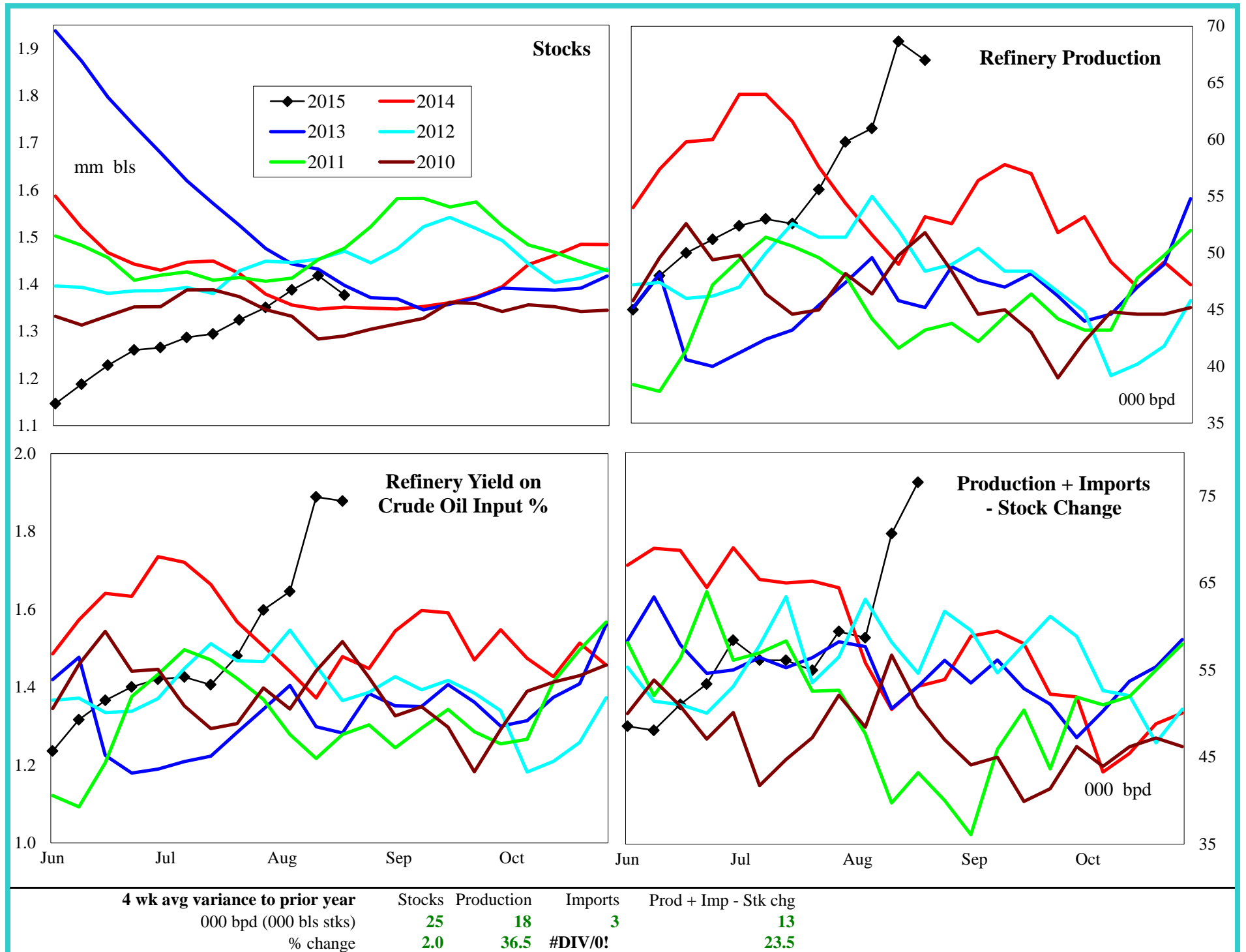


## PADD 2 Jet Fuel Supply

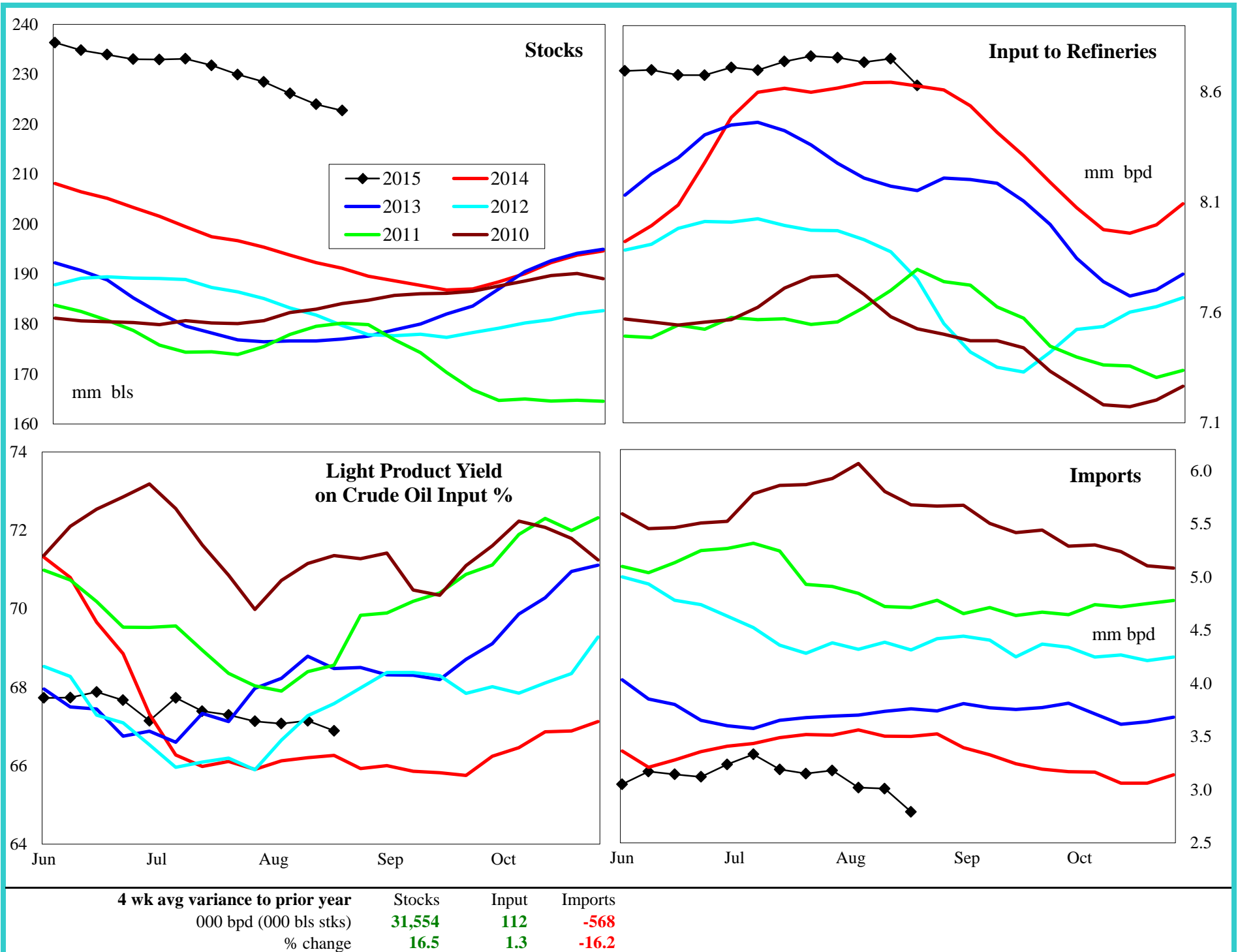




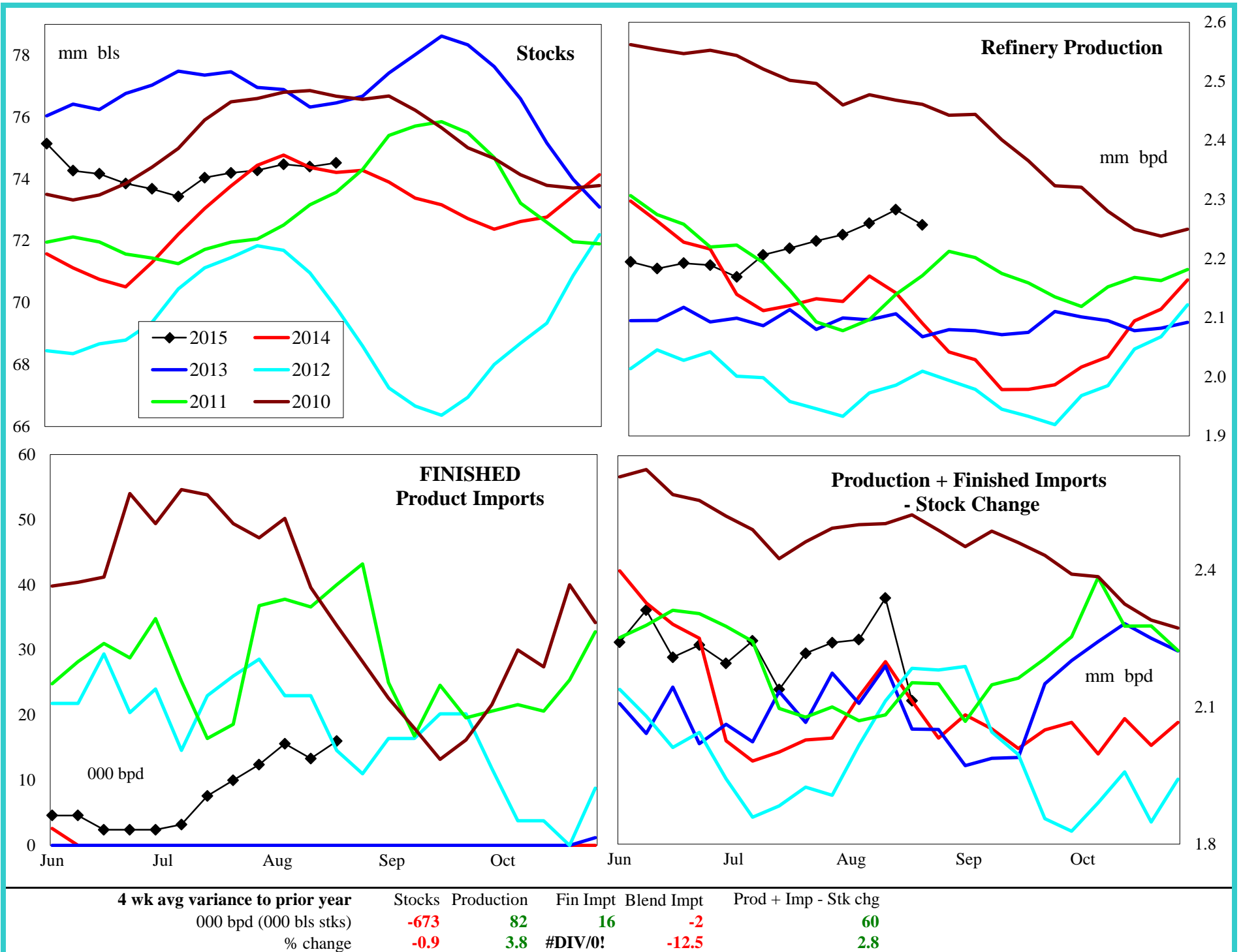
# PADD 2 Residual Fuel Oil Supply



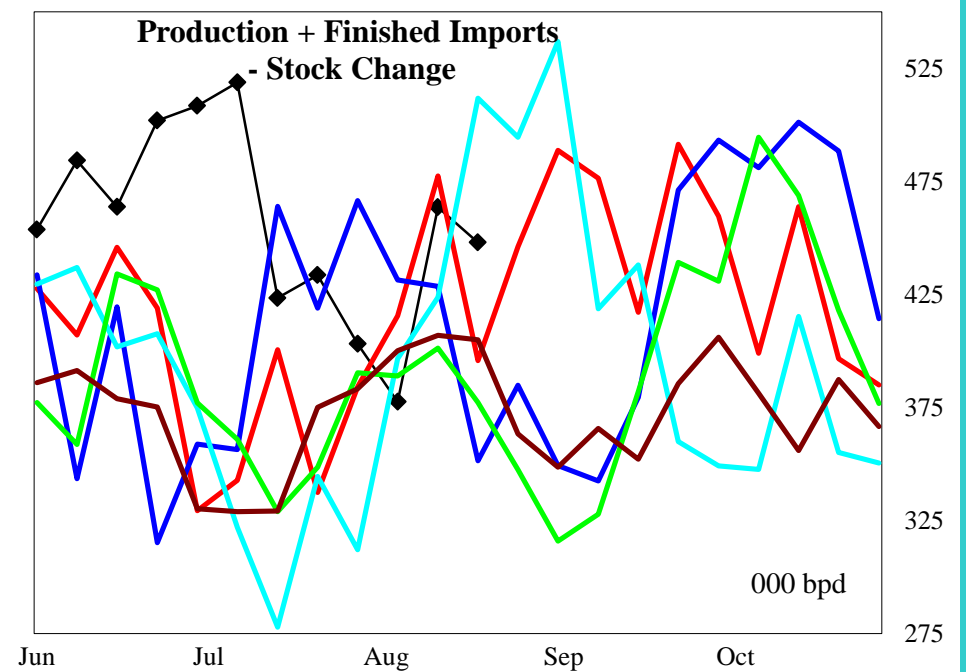
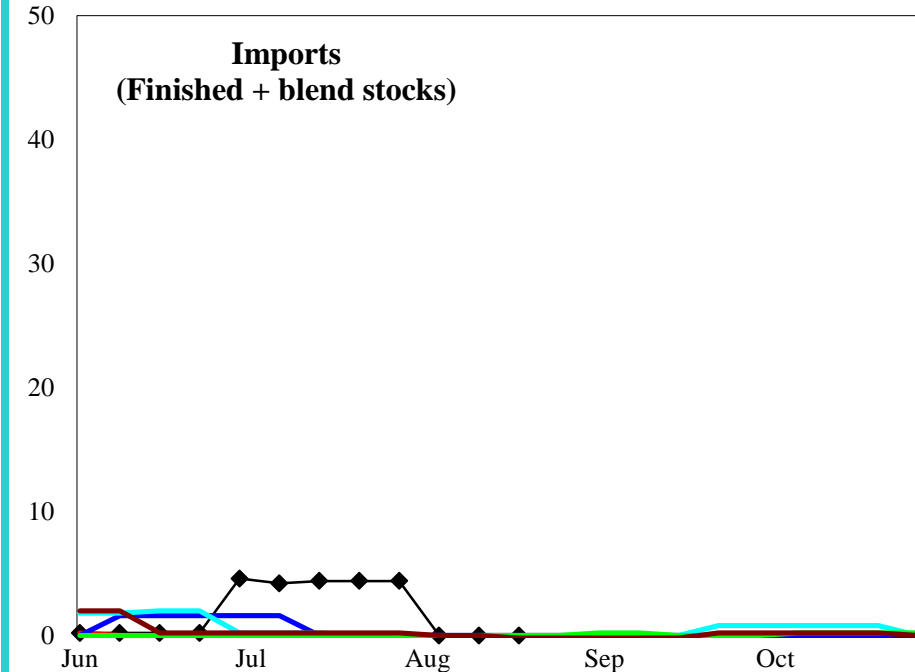
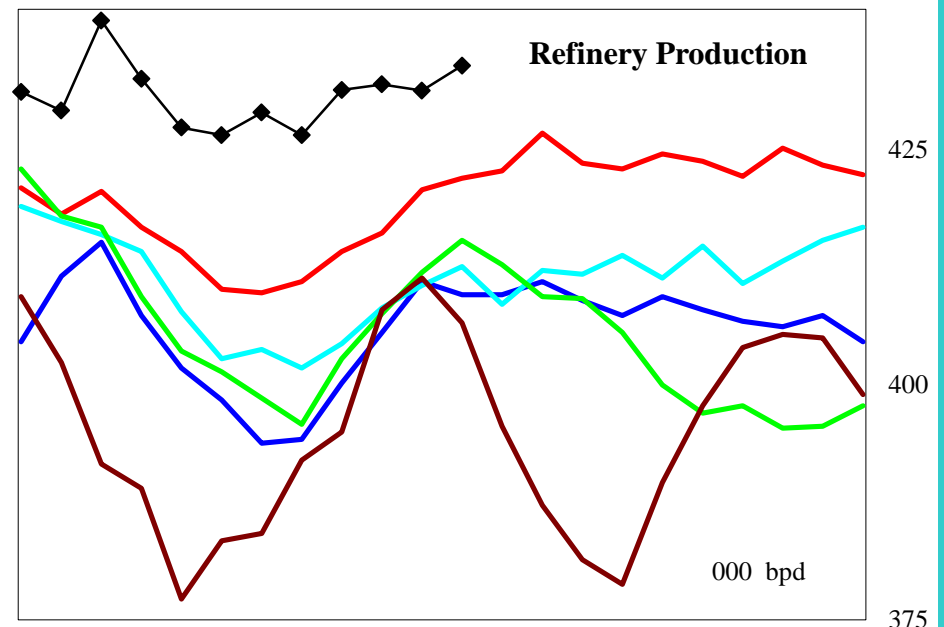
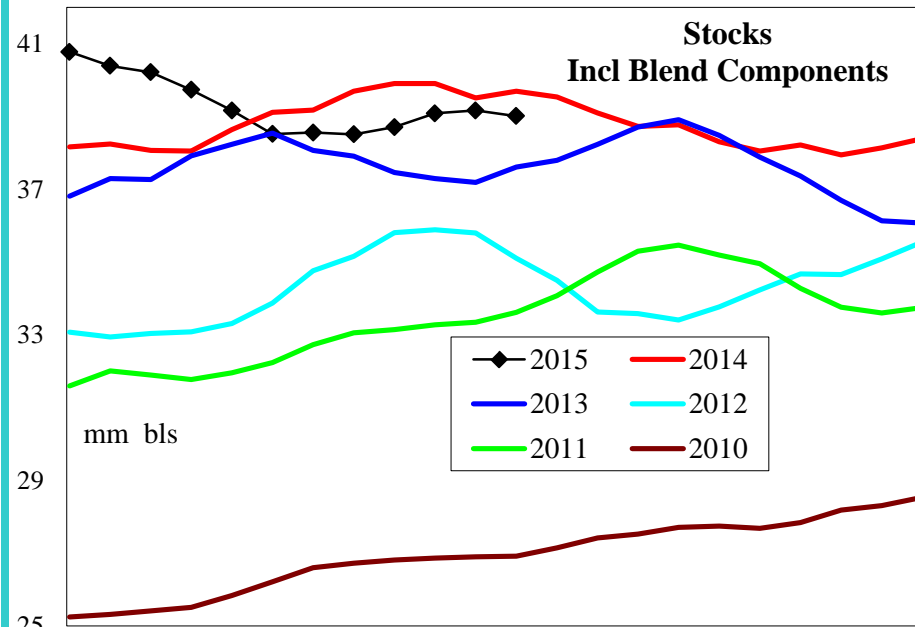
# PADD 3 Crude Oil Supply and Refining



# PADD 3 Gasoline Supply



# PADD 3 Reformulated Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

-850

-2.1

Production

14

3.3

Imports

0

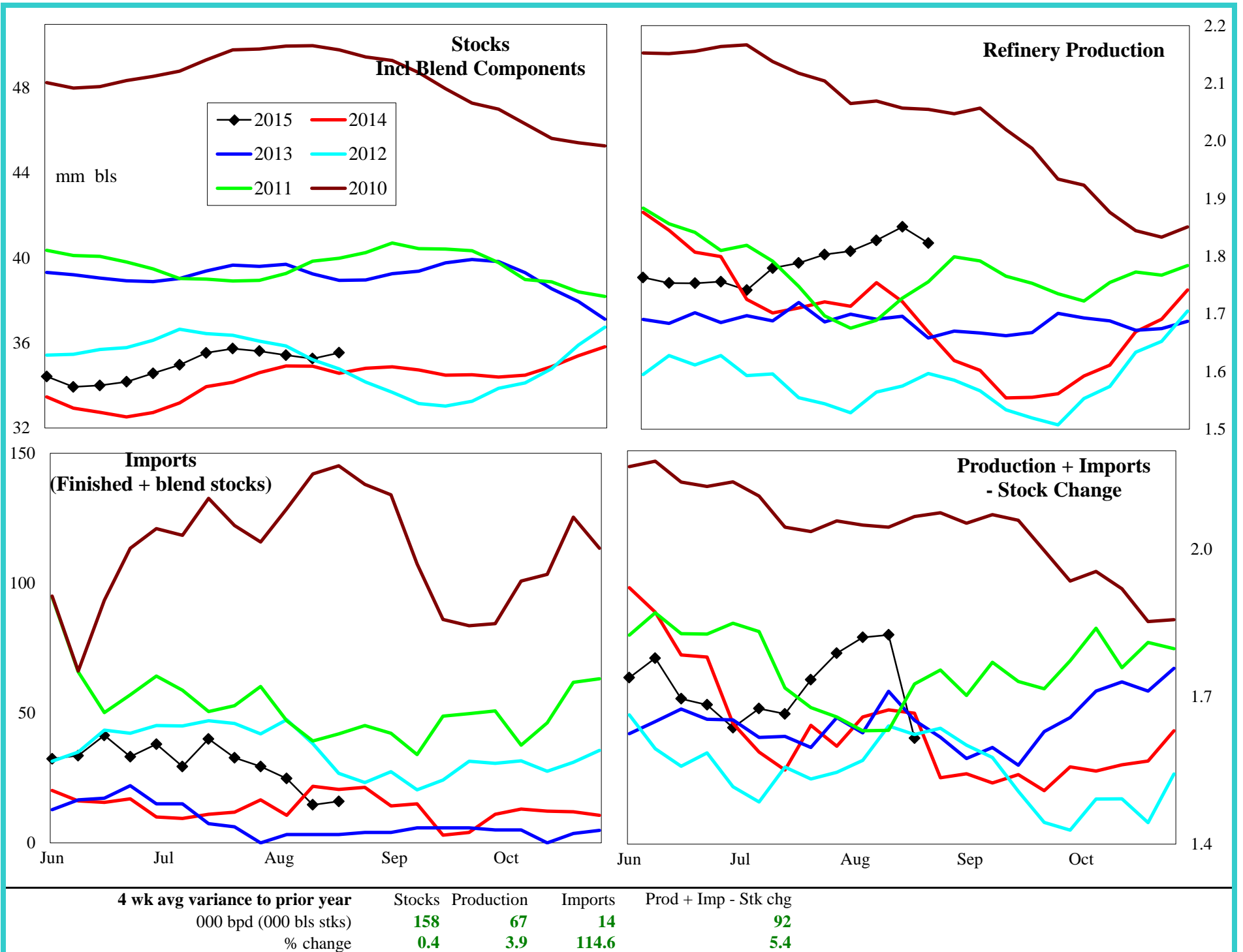
#DIV/0!

Prod + Imp - Stk chg

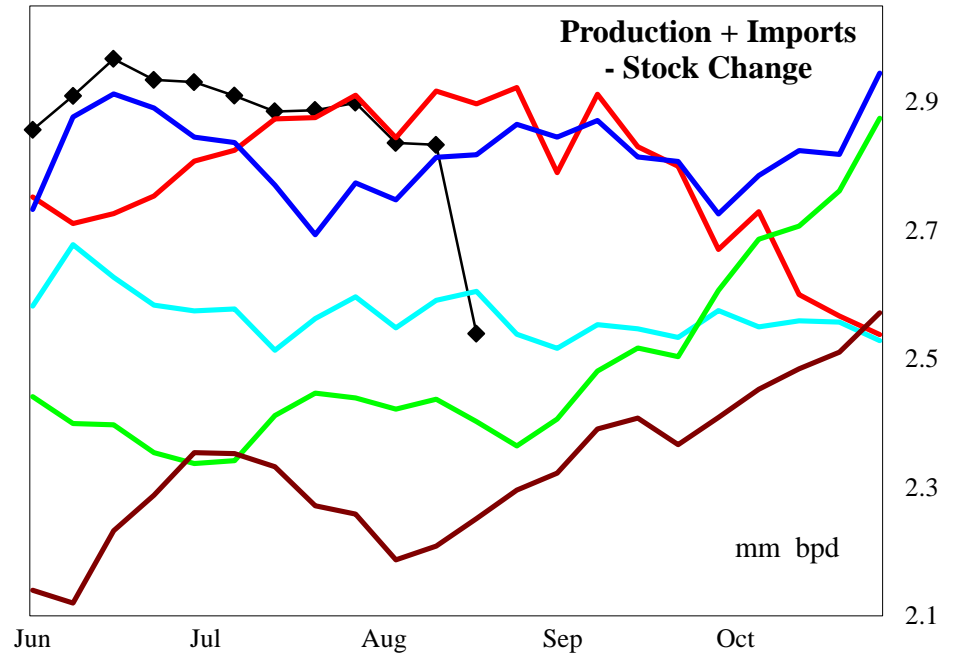
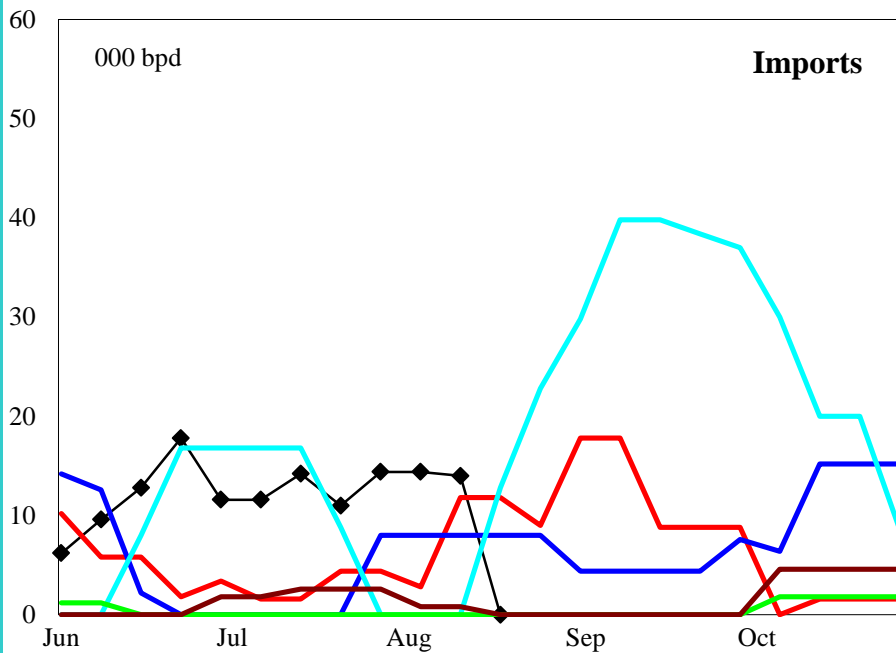
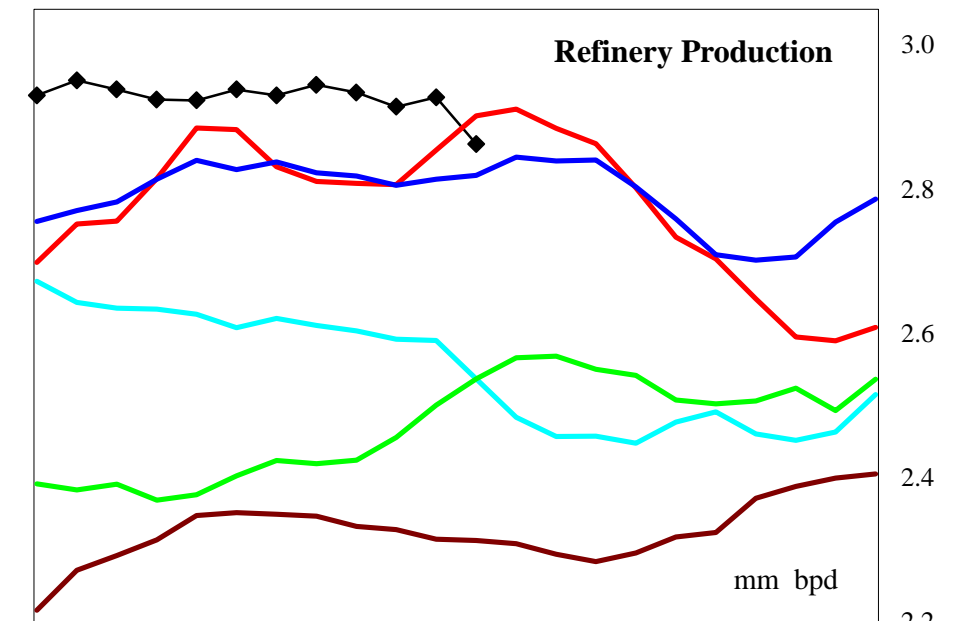
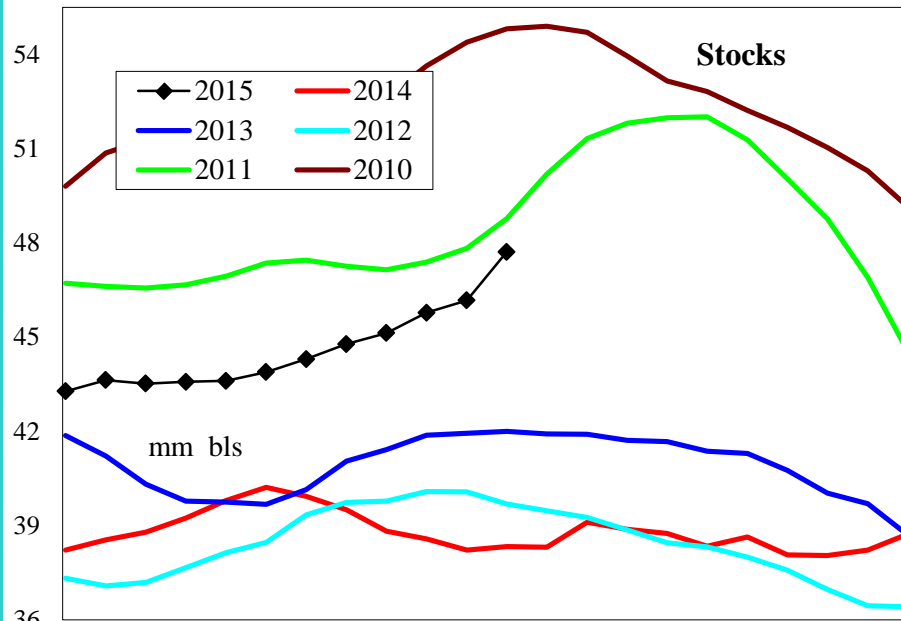
-33

-7.4

# PADD 3 Conventional Gasoline Supply



# PADD 3 Distillate Supply



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

8,285

21.3

Production

89

3.2

Imports

15

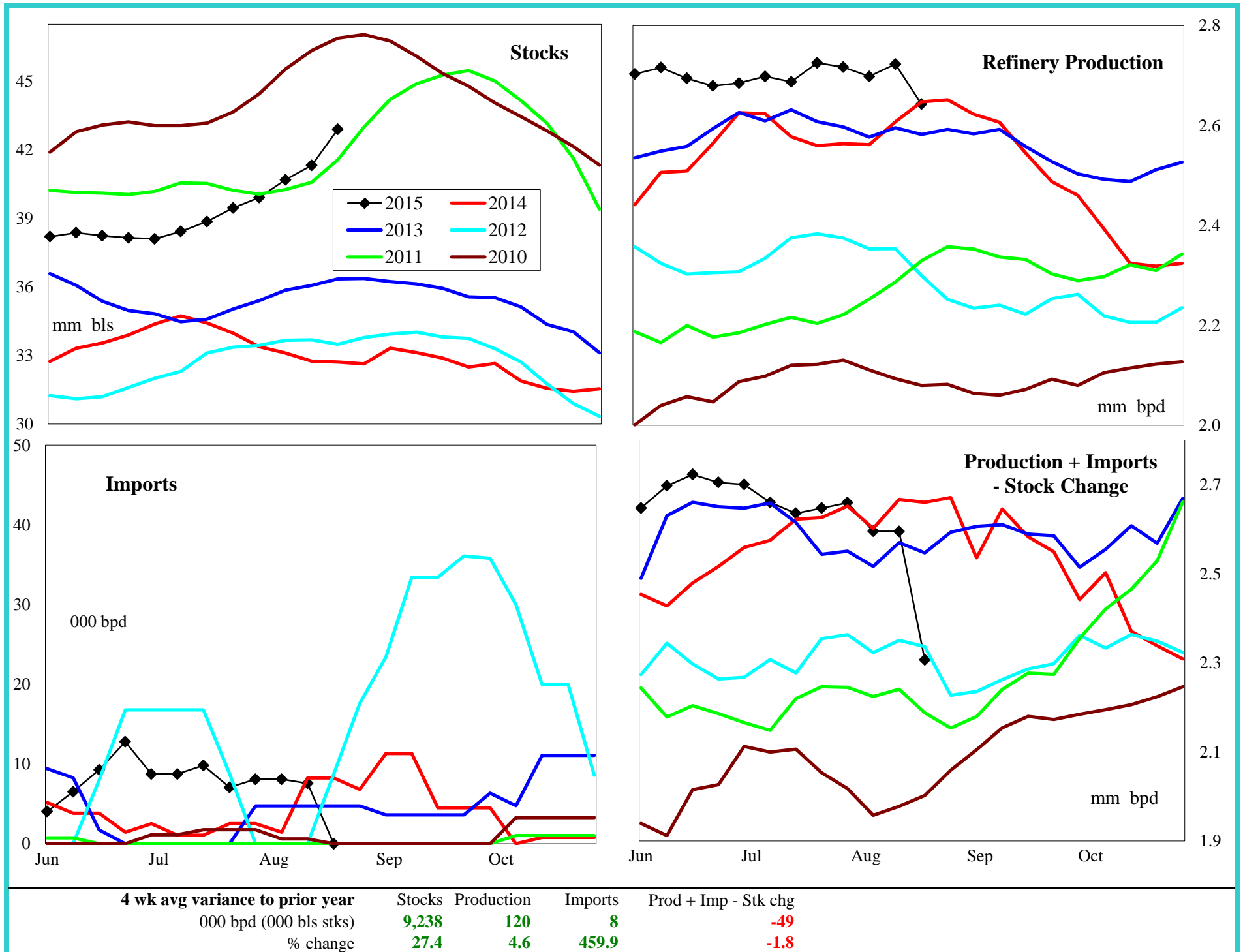
414.3

Prod + Imp - Stk chg

-31

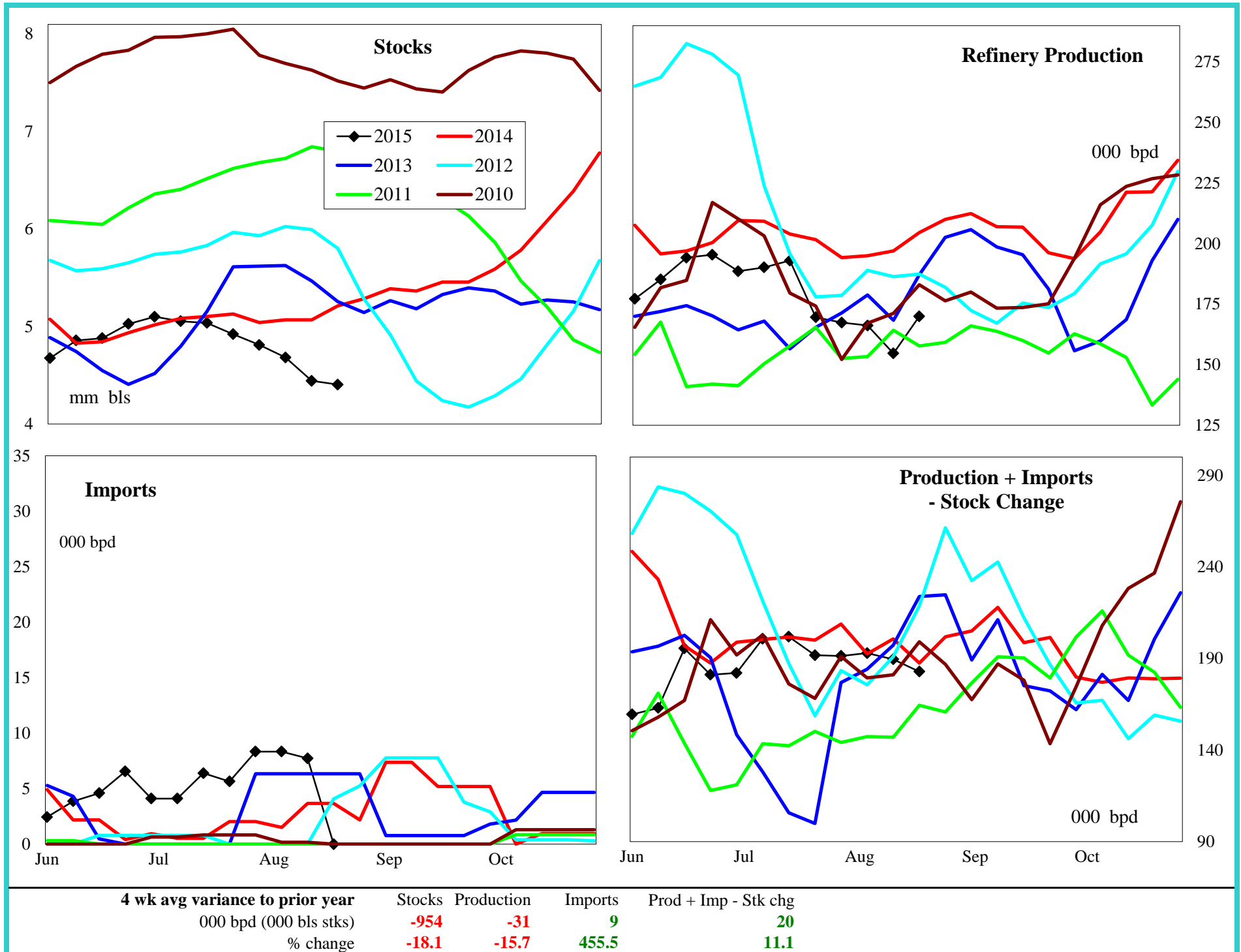
-1.1

# PADD 3 Low Sulfur Distillate Supply

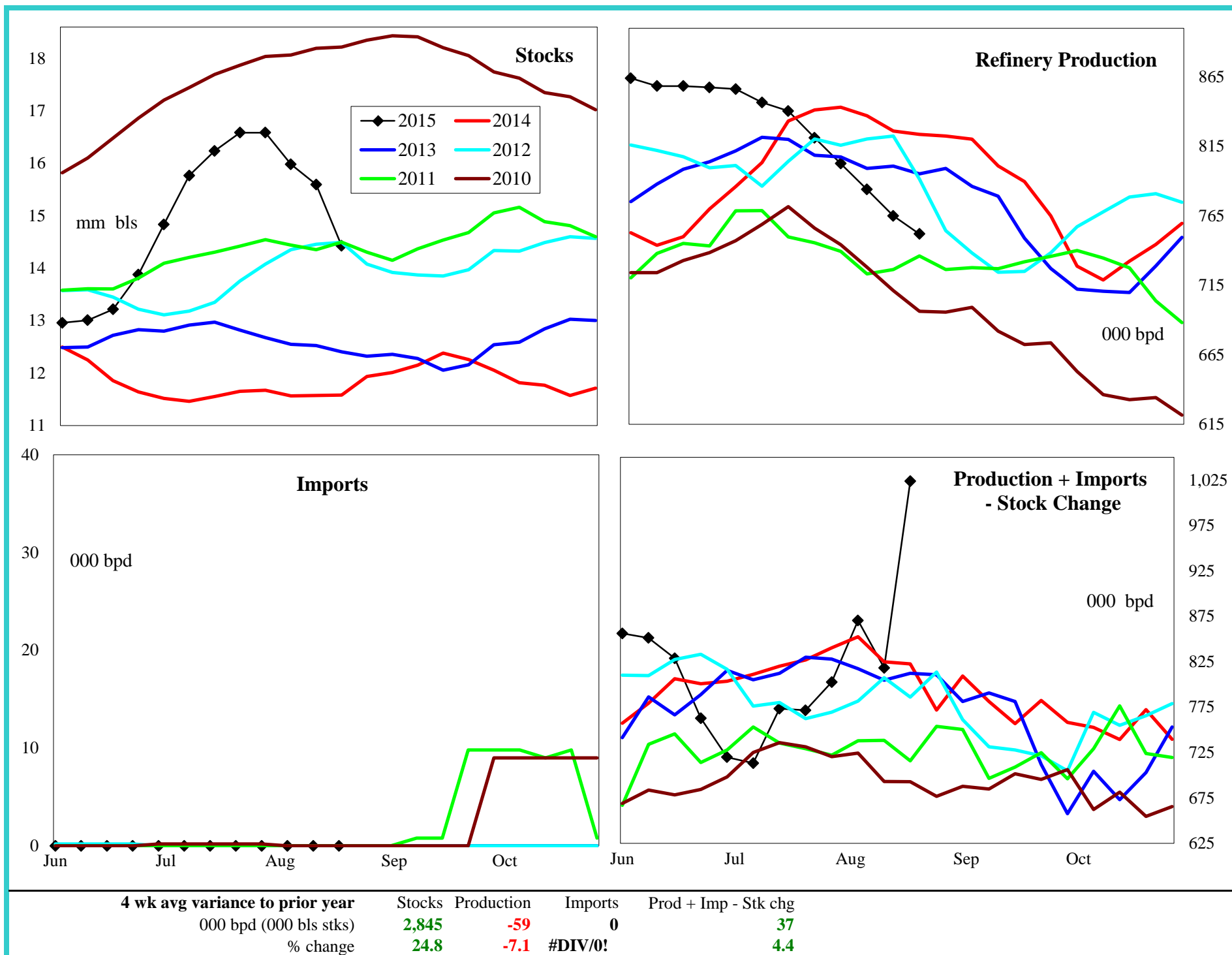




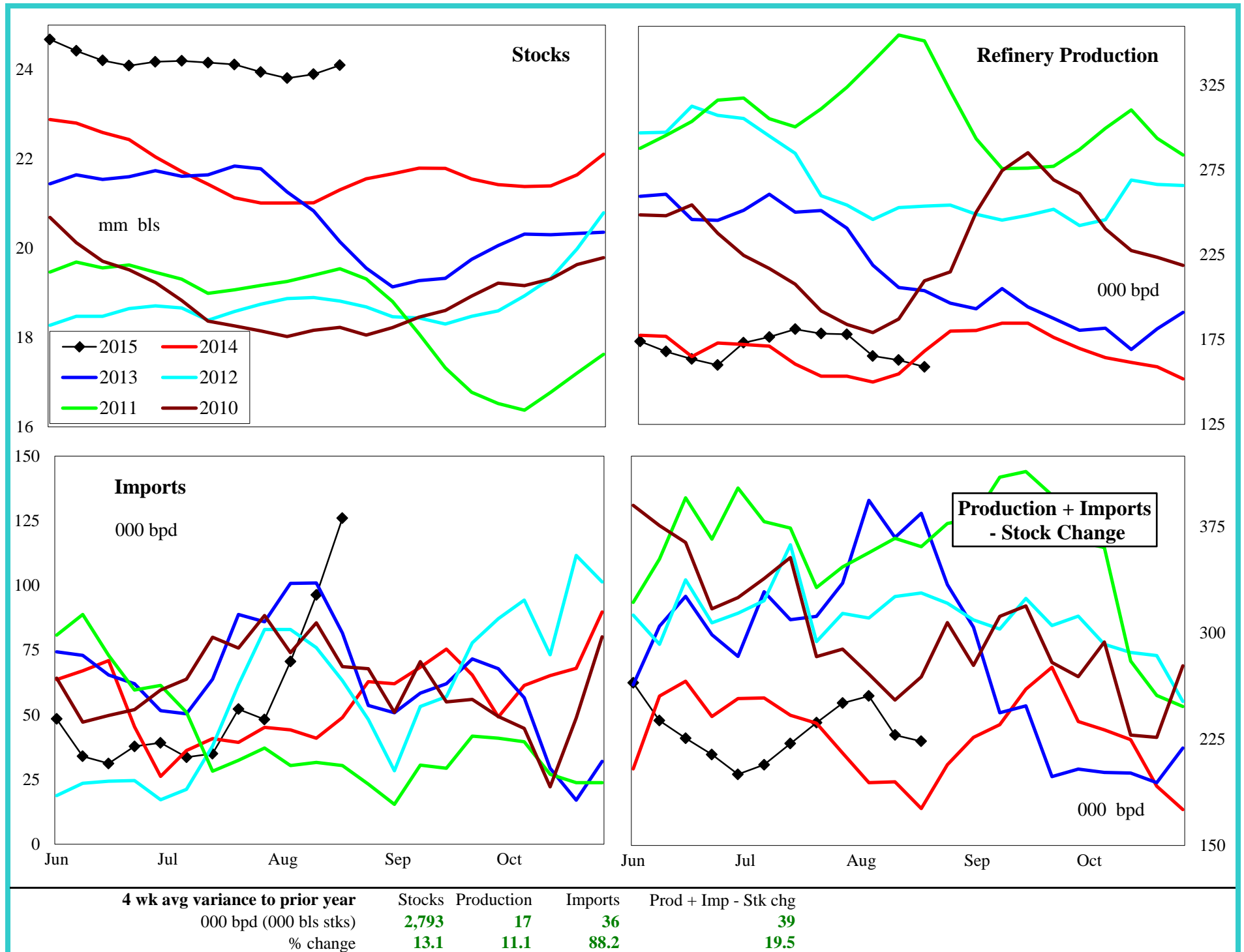
# PADD 3 High Sulfur Distillate Supply



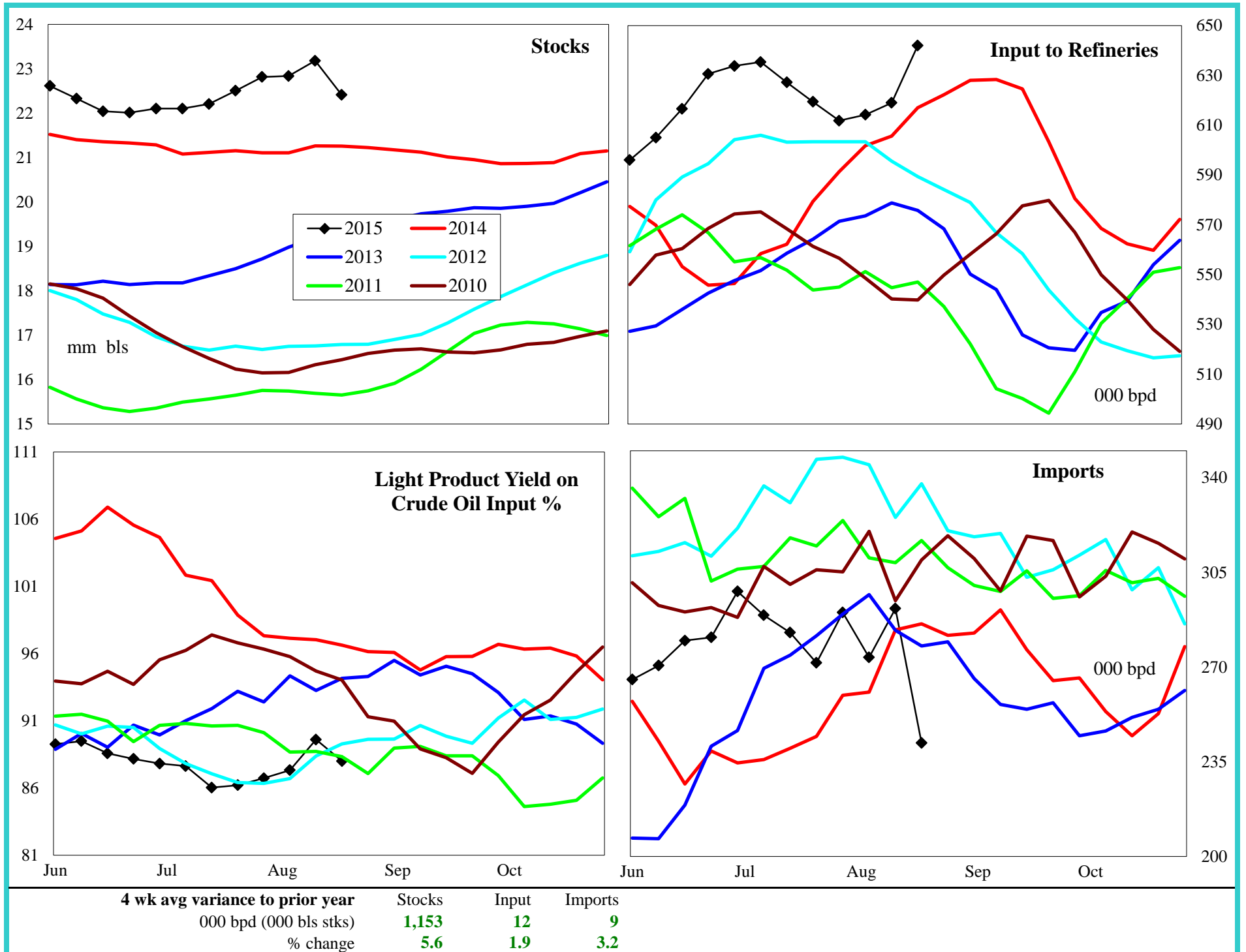
# PADD 3 Jet Fuel Supply



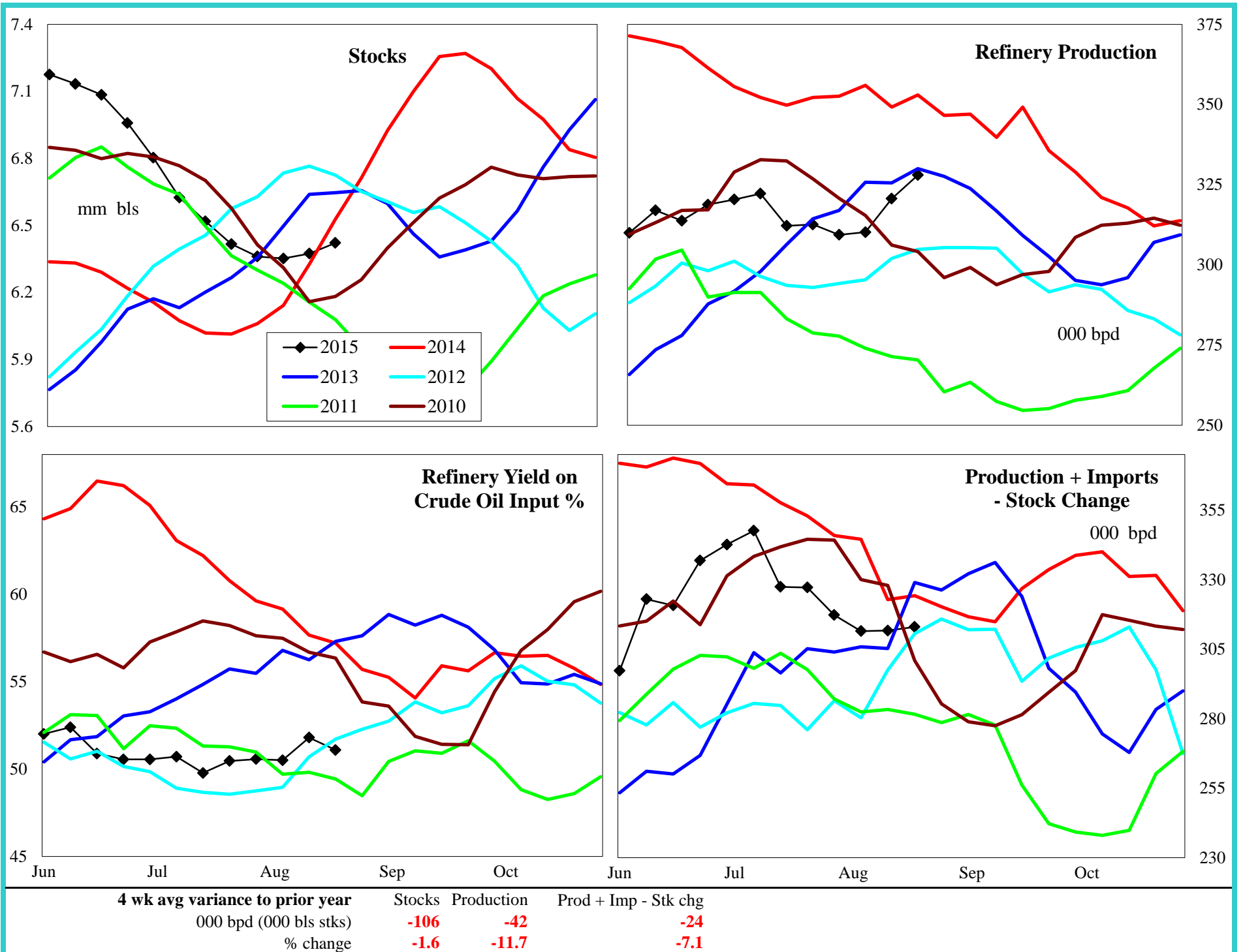
# PADD 3 Residual Fuel Oil Supply



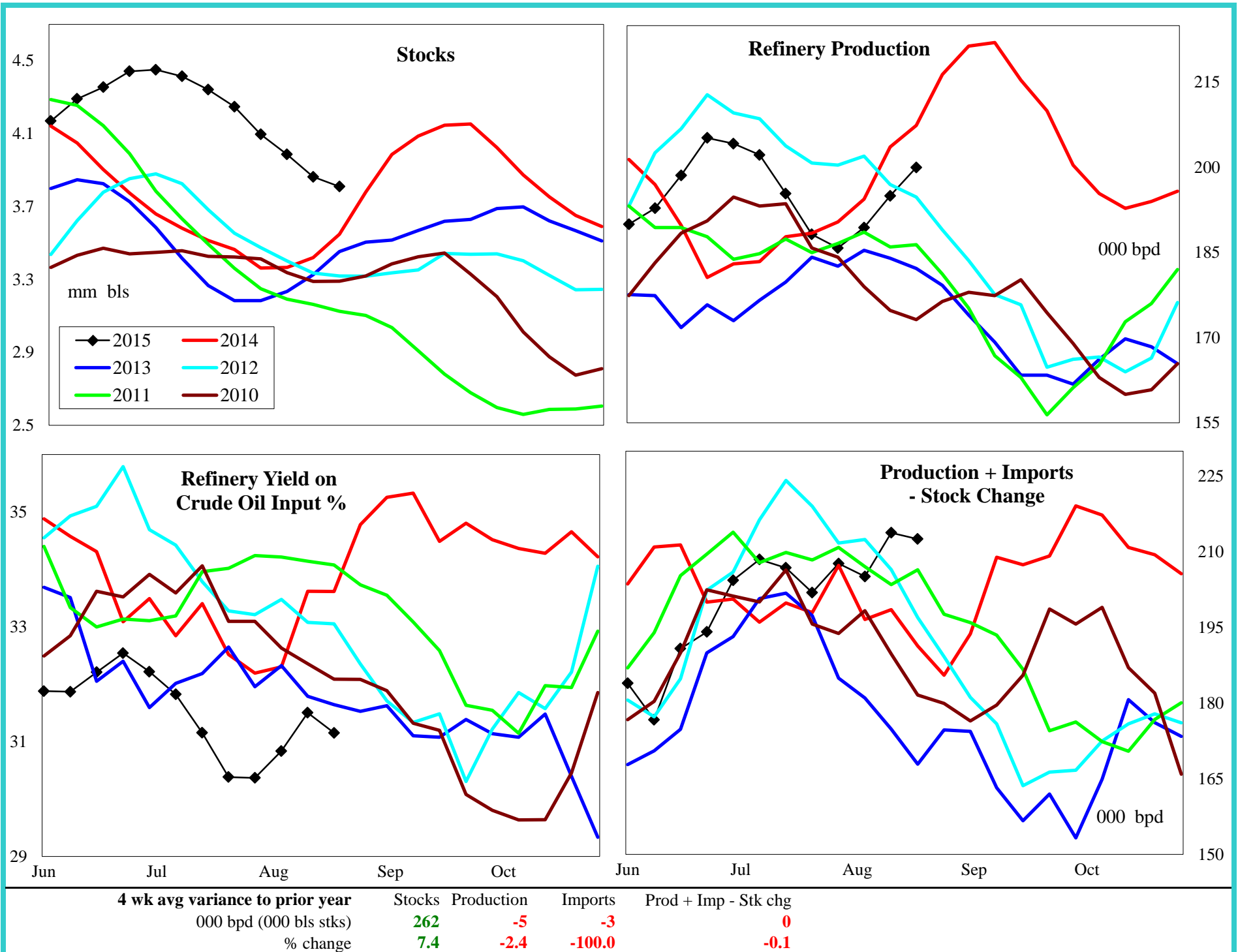
# PADD 4 Crude Oil Supply and Refining



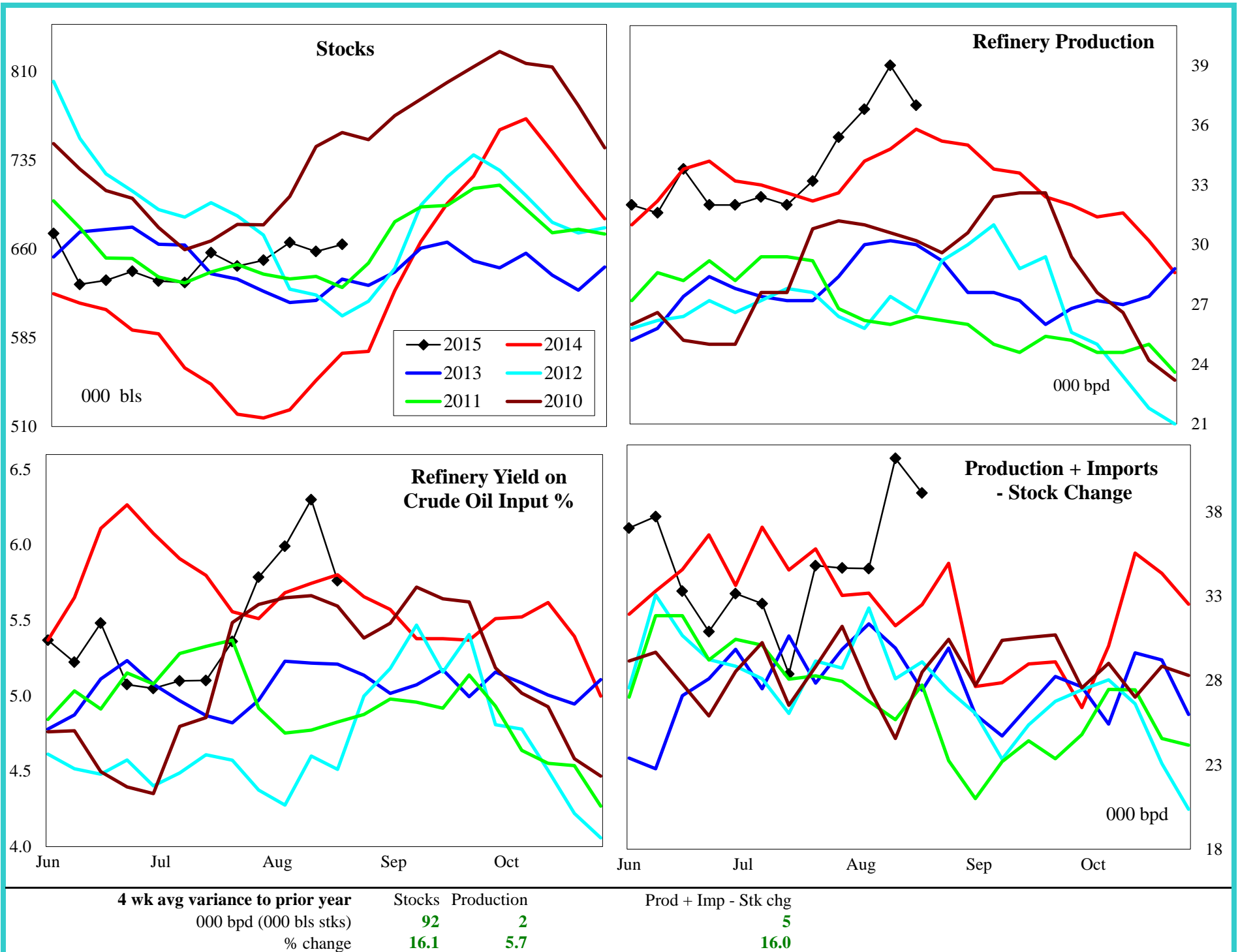
# PADD 4 Gasoline Supply



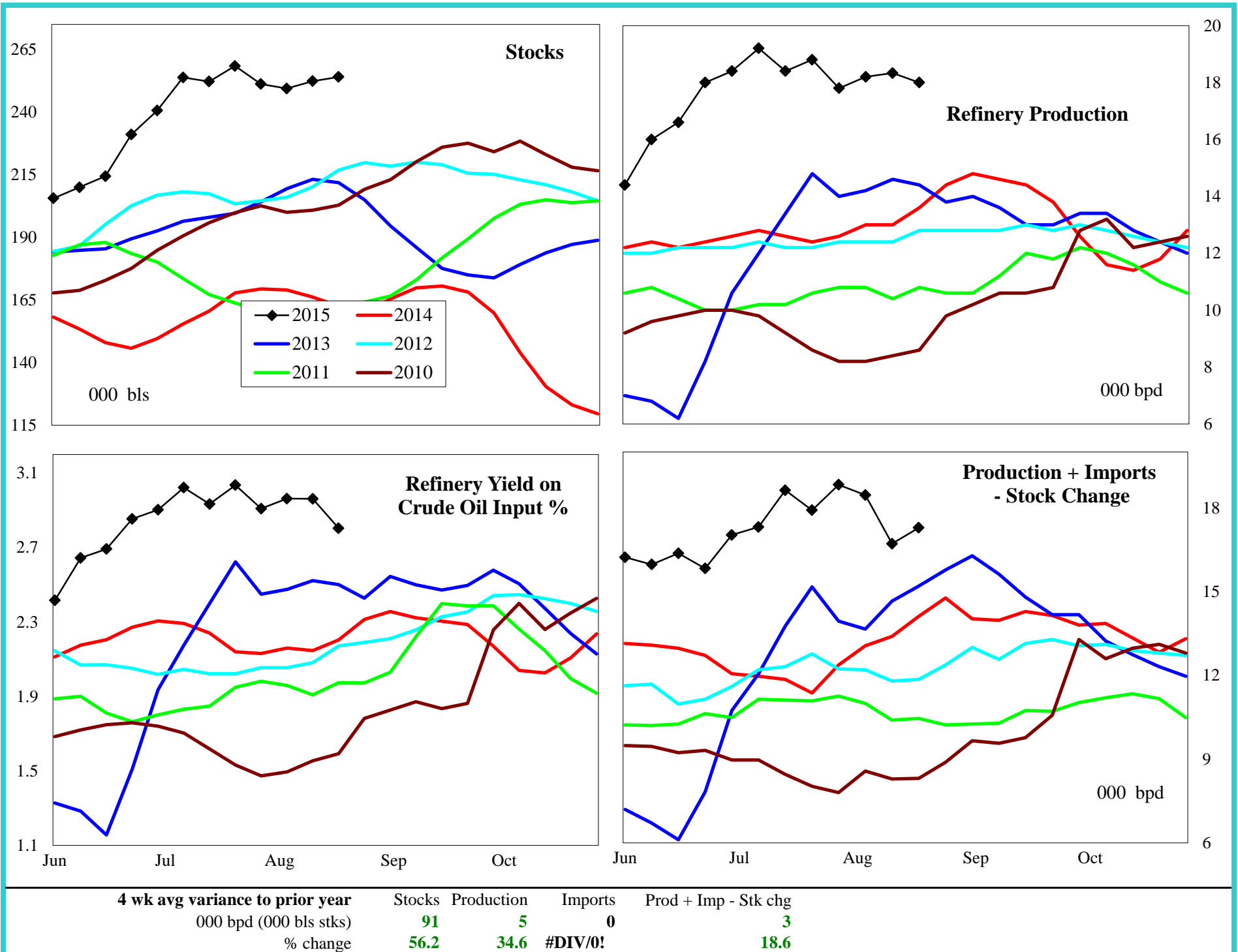
# PADD 4 Distillate Supply



# PADD 4 Jet Fuel Supply

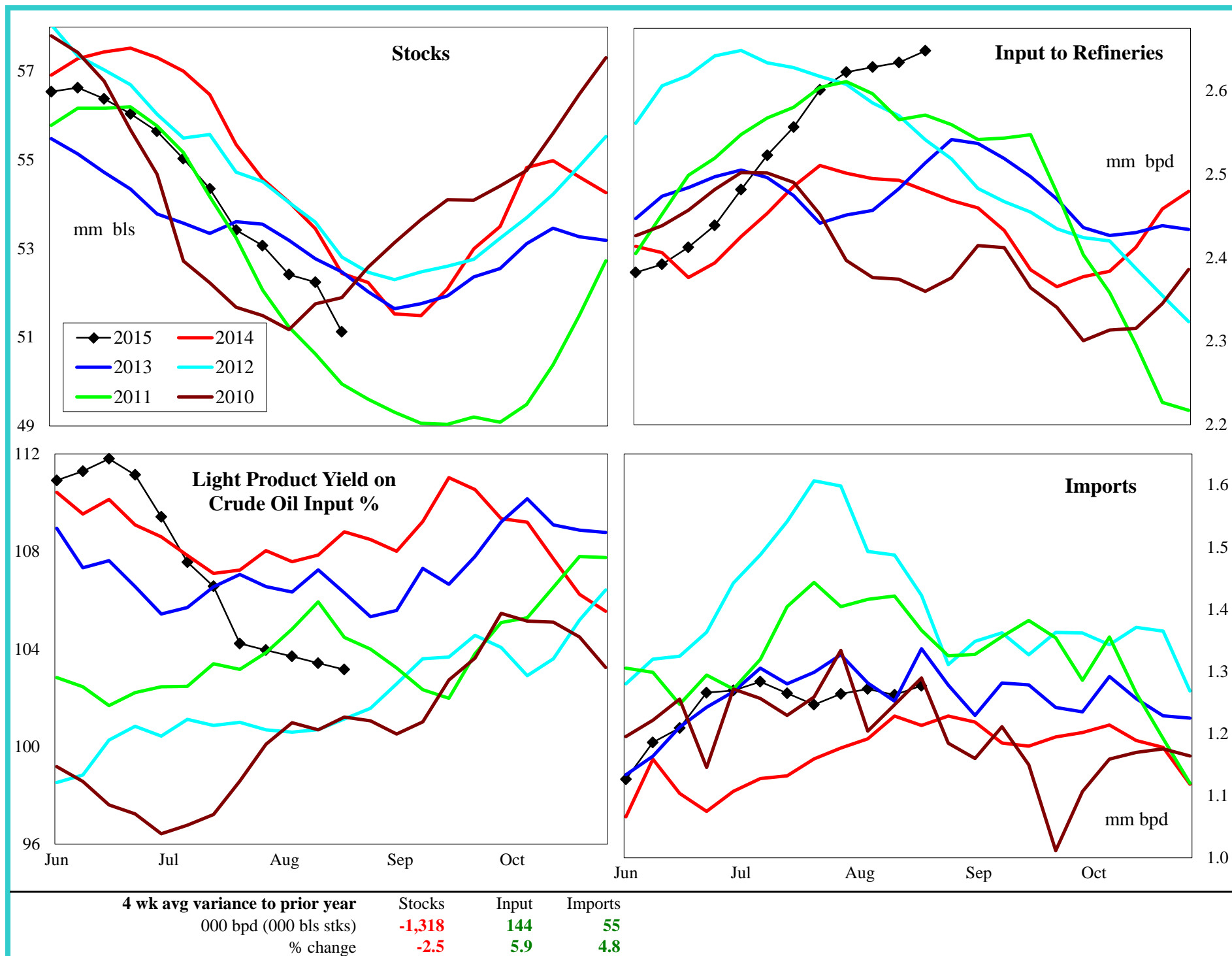


# PADD 4 Residual Fuel Oil Supply

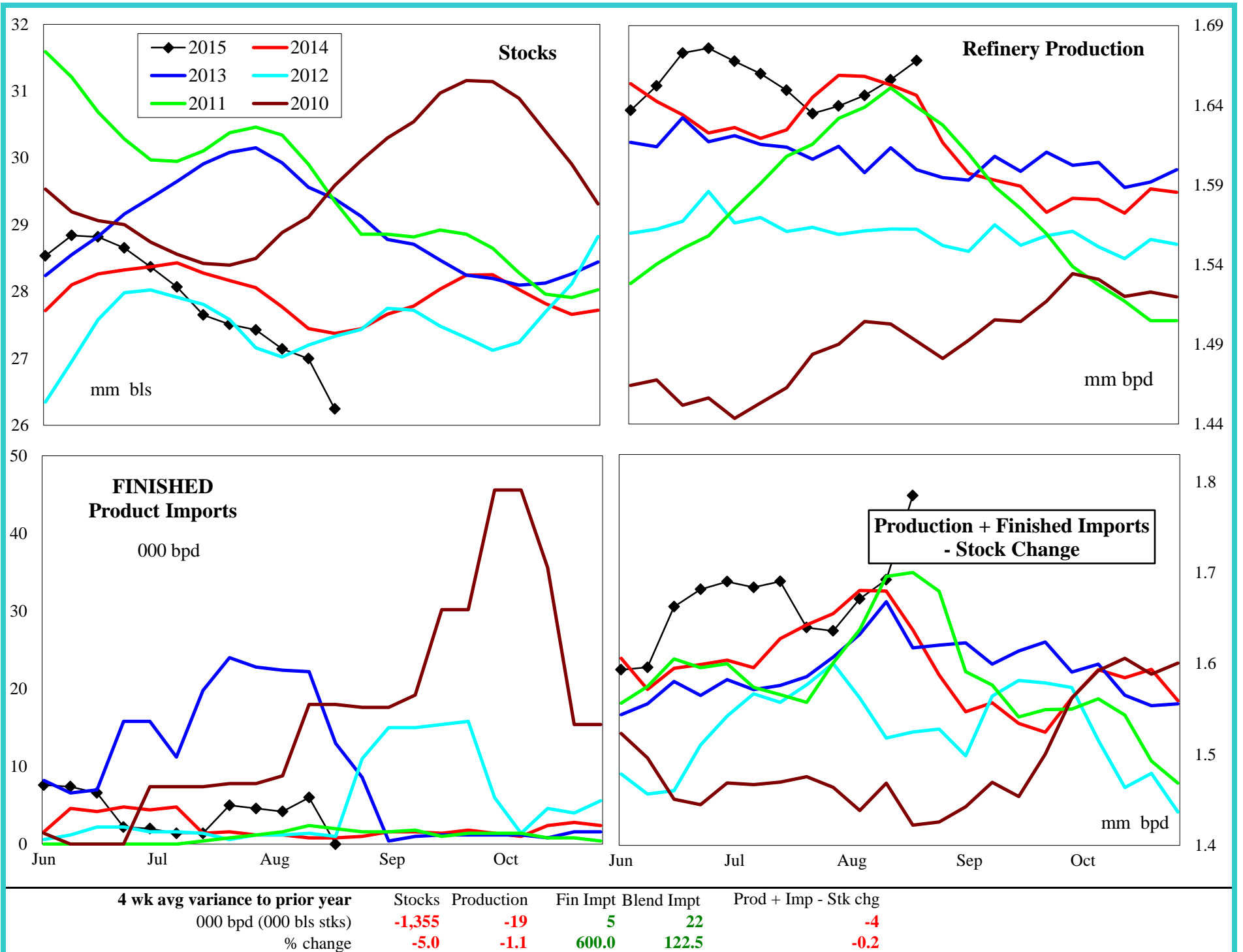




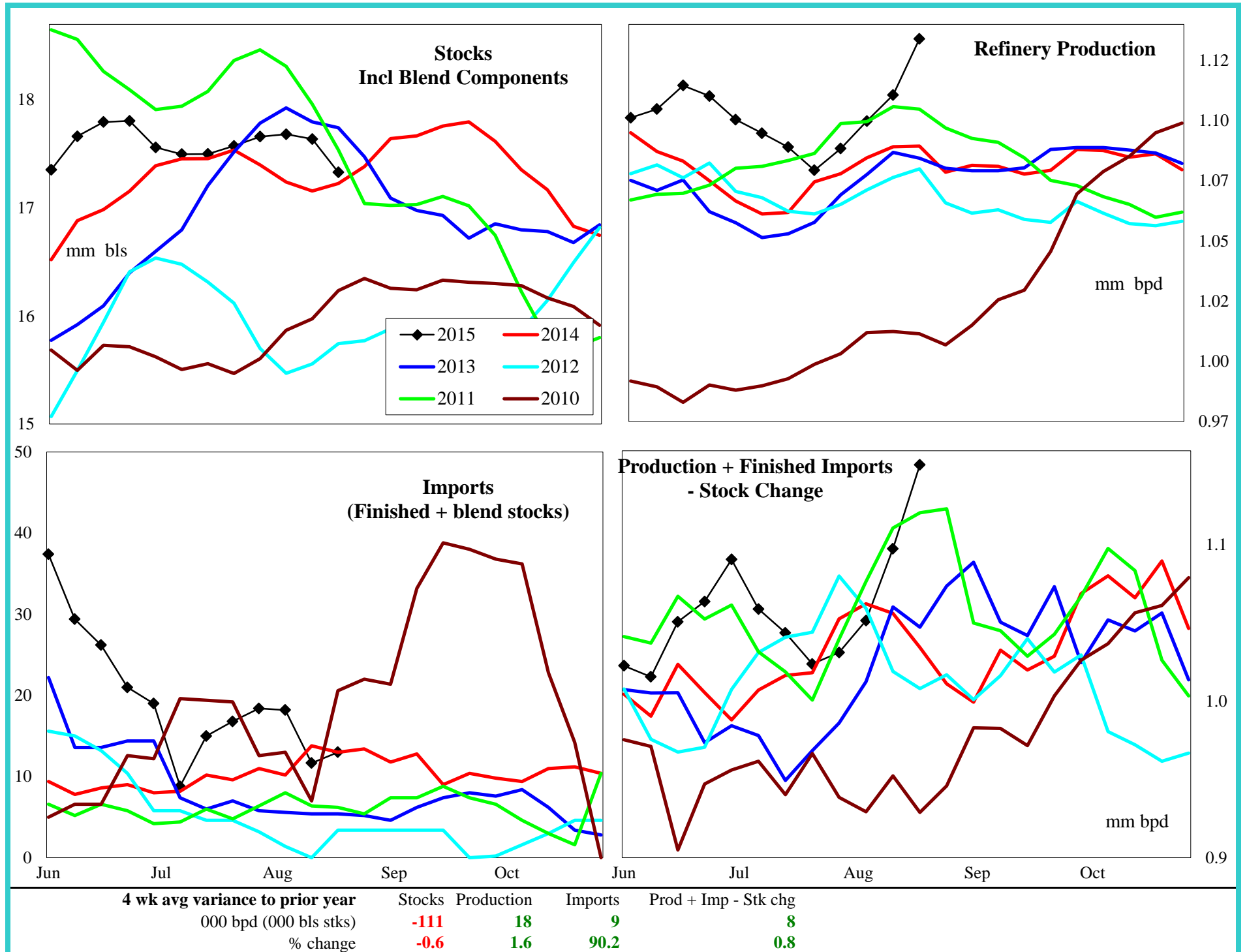
# PADD 5 Crude Oil Supply and Refining



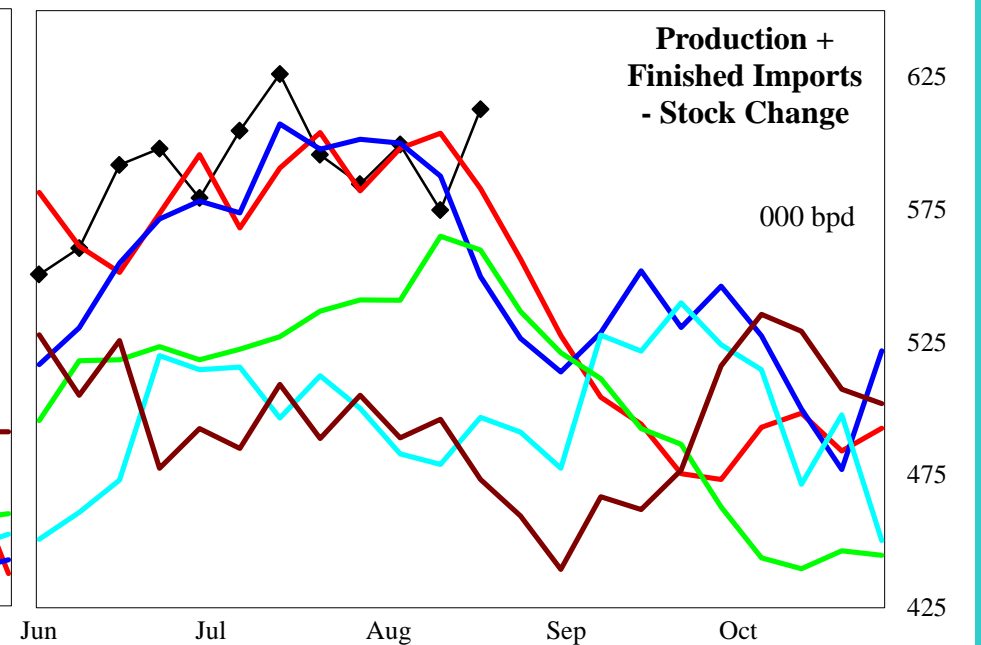
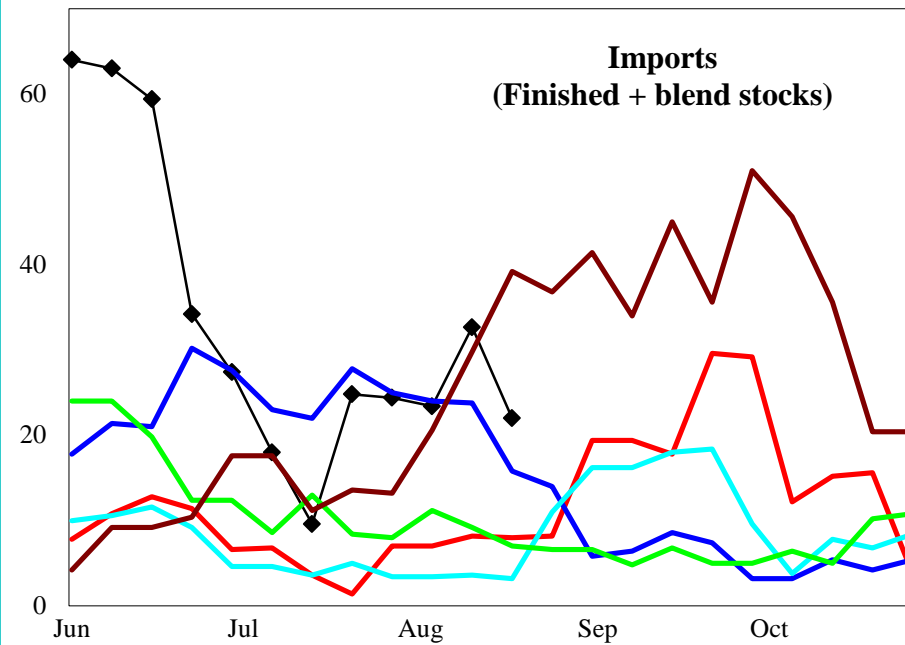
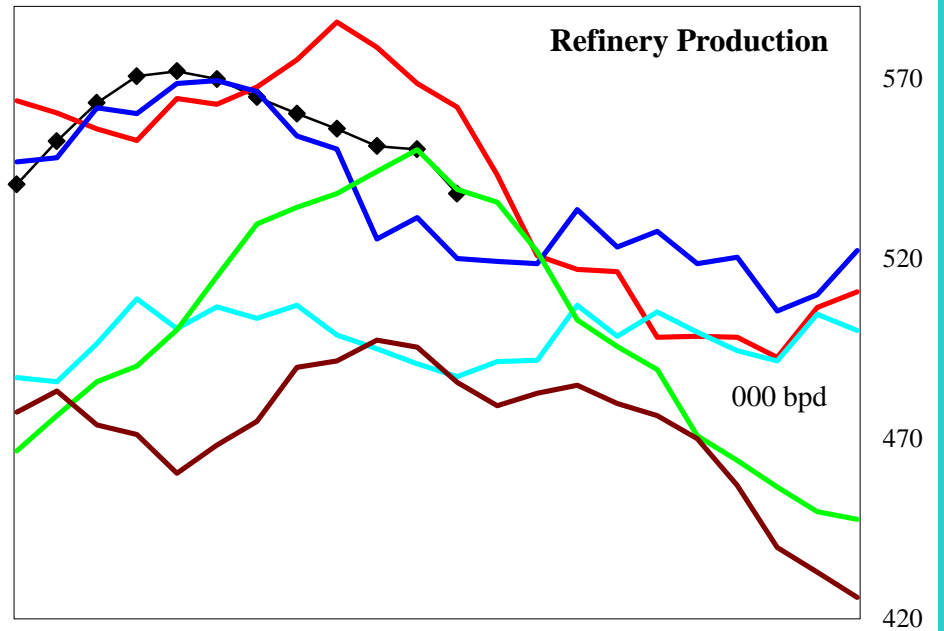
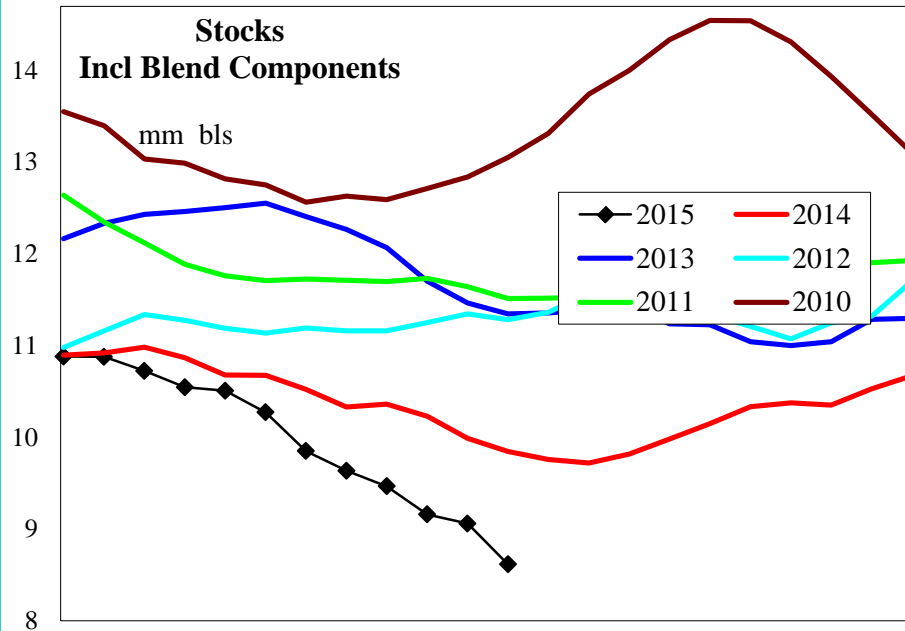
## PADD 5 Gasoline Supply



# PADD 5 Reformulated Gasoline Supply



# PADD 5 Conventional Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

**-1,244**

**-36**

**17**

**-12**

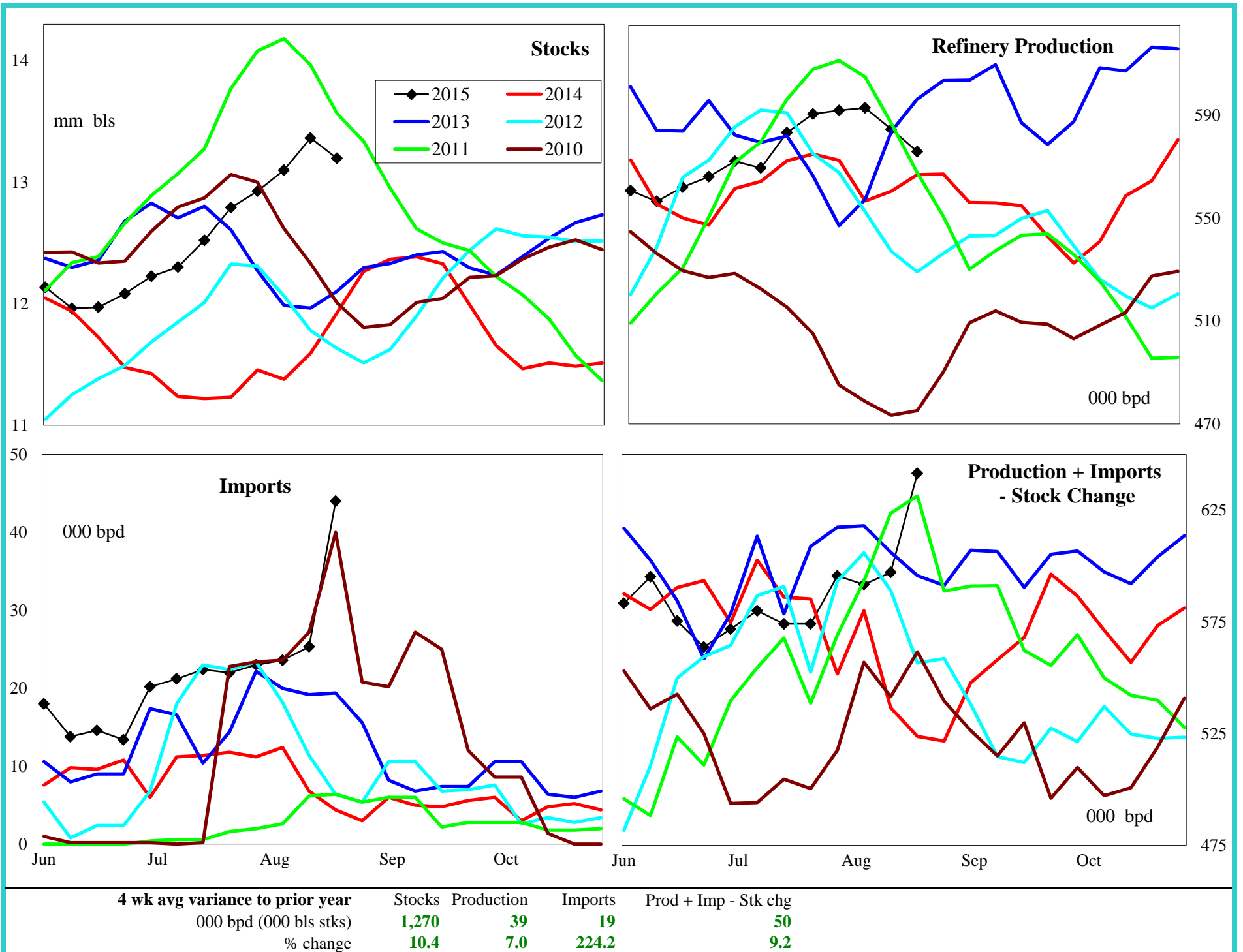
**-13.3**

**-6.2**

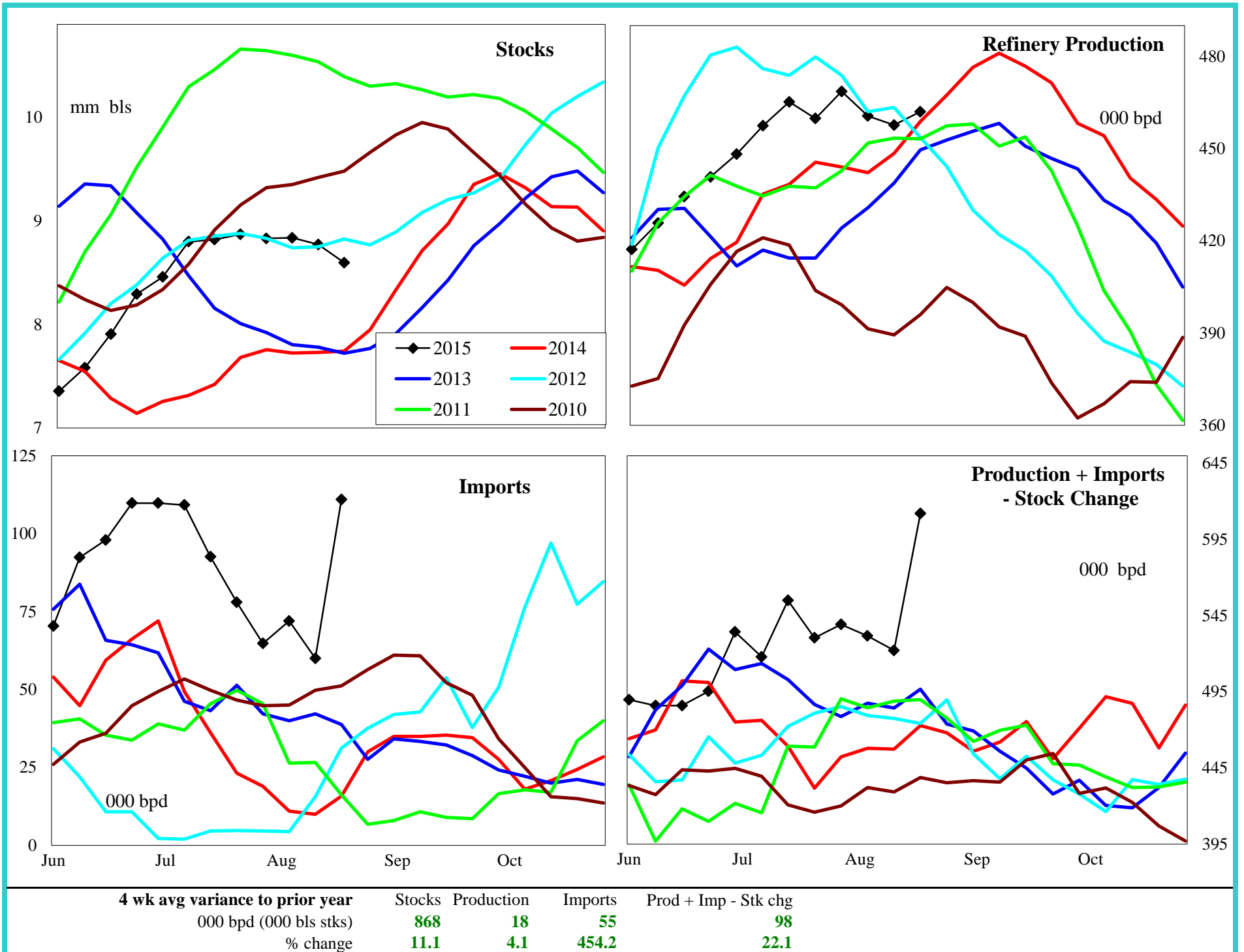
**206.1**

**-2.0**

# PADD 5 Distillate Supply



# PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

