



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

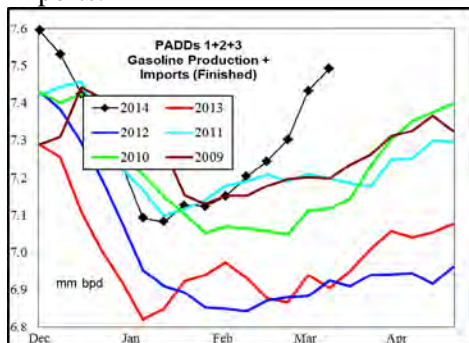
### A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, March 19, 2014

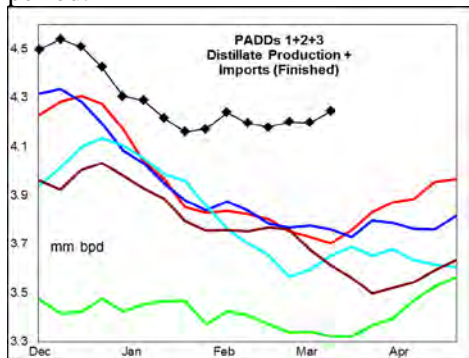


#### Major Fundamental Trends<sup>1</sup>

Gasoline production East of the Rockies during the last 60-days has been significantly above the last 2-yrs. This increase is likely the result of below average refinery maintenance, and increased processing of domestic light sweet crude oil grades that yield a higher share of gasoline. This increased production has offset a -220,000 bpd decline in blend stock imports.

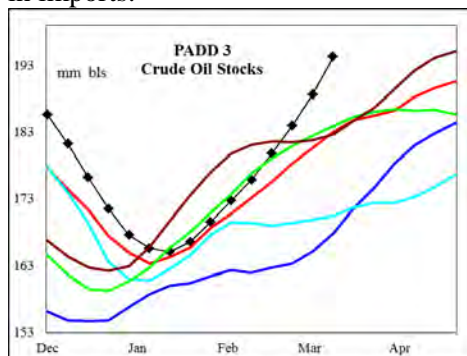


Gasoline stocks in regional markets East of the Rockies are unequally distributed; the Central Atlantic Region and PADD 2 each report stock levels below the 5-yr range, while the Gulf and Lower Atlantic Regions each report stocks at record highs for the period.



Distillate production East of the Rockies during the last 60-days has also seen a very significant increase compared to prior years. This increase is likely the result of low refinery maintenance and very favorable refinery economics for distillate

production. Stock levels are also unequally distributed; the East Coast and Midwest each report stock levels below the 5-yr range, while stock levels in the Gulf match year ago levels. Stock draws east of the Rockies have been extremely low, compared to prior years and is driven by the surge in imports.



Crude oil stocks have increased +12 million barrels in the Gulf region during the last 2-wks; driven by increased deliveries of domestic crude oil and seasonal refinery maintenance.

Refinery crude oil runs remain +0.9 million bpd above a year ago, driven by increased capacity on the Gulf and run rates above a year ago in all major regional markets.

**Wholesale Demand** was sharply lower for gasoline and jet fuel last week, while distillate demand was significantly higher. Wholesale demand, measured over the last four weeks compared to a year ago: gasoline increased +1.5%; distillate was +5.1% higher; jet fuel increased +2.3%, and residual fuel decreased -20%.

**Stocks forward coverage:** Gasoline demand coverage fell on a -1.5 million barrel stock draw, limited by lower weekly demand. Coverage ended the week at a level equal to the 2-yr mid range.

Distillate coverage decreased on a -3.1 million barrel stock draw. Coverage ended the week at a level below the 5-yr range.

Jet fuel coverage fell on a -0.8 million barrel stock draw for the week. Coverage levels were well below the

historic range.

Residual fuel oil coverage ended the week at a level that matched historic highs for the period.

**Refinery utilization** rates decreased on a -36,000 bpd decline in crude oil runs last week. During the latest 4-wk period crude oil input was +0.9 million bpd above a year ago.

Gasoline yield % on crude oil runs decreased last week on a -126,000 bpd drop in output compared to the -36,000 bpd decline in crude oil runs. Yield % on crude oil runs was a record high for the last year, and above the last 2-yrs.

Distillate yield % on crude oil runs increased last week, on a +102,000 bpd increase in output compared to the decline in crude oil runs. The yield % on crude oil runs ended the week at a level well above the historic range.

Jet fuel yield % on crude oil runs decreased on a -71,000 bpd decline in output, compared the decrease in crude oil runs. The yield % level fell to 5-yr lows for the period.

**Petroleum Imports/Exports:** Imports of crude oil, gasoline and distillates were little changed on the week. Jet fuel imports fell sharply.

During the latest 4-wk period crude oil imports were -0.3 million bpd below last year; distillate imports were +167,000 bpd higher; finished gasoline imports were nearly unchanged, gasoline blend stock imports were -210,000 bpd lower; jet fuel imports decreased -5,000 bpd, while residual fuel oil imports were -34,000 bpd lower.

*Exports during the most recent week for distillate were +197,000 bpd above a year ago, gasoline +21,000 bpd, jet fuel +37,000 bpd and propane was +214,000 bpd higher.*

**Crude Oil** stocks climbed +5.9 million barrels last week, including a +4.7 million barrel build in the Gulf. Stock levels in the Gulf are +11 million barrels above a year ago; offset by stock levels in Cushing that are -20 million barrels below last year.

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



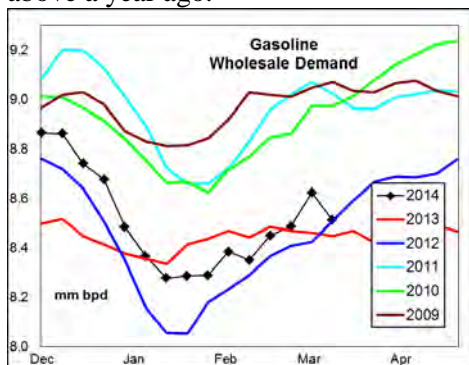
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

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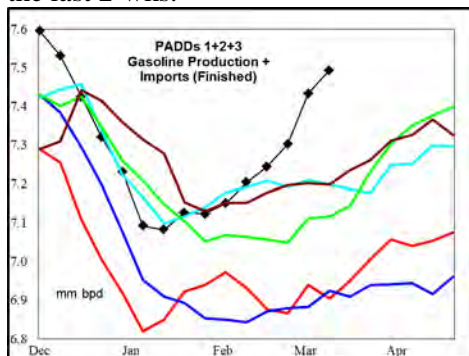
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#### Product Supply-Demand Trends

**Gasoline** wholesale demand fell -0.4 million bpd last week, reversing the prior week surge. The latest 4-wk average demand was +124,000 bpd above a year ago.



Supply decreased -100,000 bpd on lower production. Supply for the latest 4-wk period was +238,000 bpd above a year ago. Supplies were sharply higher in markets East of the Rockies, driven by a return of FCCU's to operation and high thru put of light sweet domestic crude oil grades during the last 2-wks.

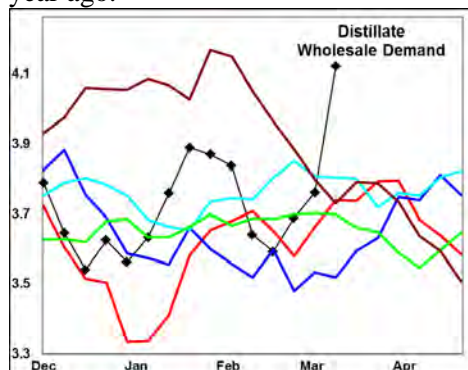


Stocks declined -1.5 million barrels last week, with stock levels below the last 3-yrs. Stocks are particularly low in the Midwest and Central Atlantic Region.

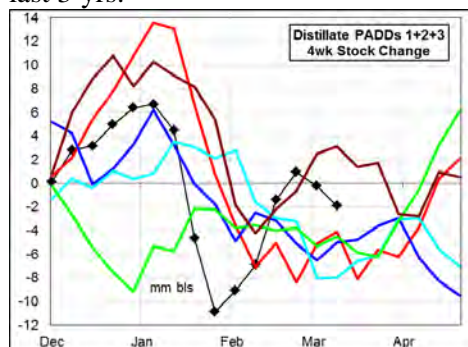
The latest 4-wk stock draw East of the Rockies of -8.9 million barrels was greater than four of the last 5-yrs. Look for higher seasonal demand, refinery maintenance and continued low imports to risk a supply squeeze in the Northeast during the 2<sup>nd</sup> quarter.

**Distillate** wholesale demand surged +0.5 million bpd last week, continuing the rebound from earlier lows. The latest 4-wk average demand was +183,000 bpd above last year. Supply

increased +94,000 bpd last week on higher production, with the latest 4-wk average was +511,000 bpd above a year ago.



The latest 4-wk stock change in markets East of the Rockies was a -1.9 million barrel draw, compared to an average -5 million barrel draw for the last 3-yrs.



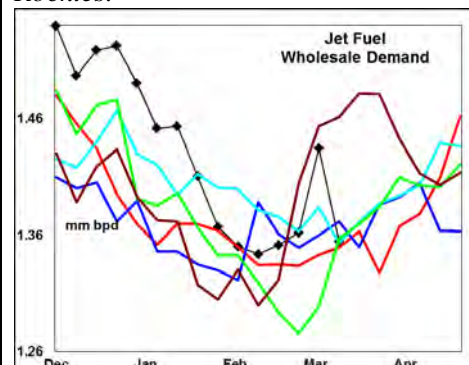
Supplies were +0.5 million bpd above last year for the latest 4-wk period; driven by record output and very high imports. This increase in supply has limited stock draws to well below the last several years. Look for a year-on-year increase in production to offset a seasonal uptrend in wholesale demand, leading below average stock draws, or even earlier than normal spring builds.

**Jet Fuel** wholesale demand declined -163,000 bpd last week, a level comparable to the 3-yr average. The latest 4-wk average demand was +31,000 bpd above last year.

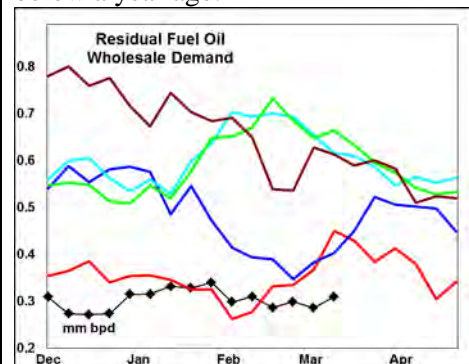
Supplies fell -147,000 bpd on lower imports and production. Output for the most recent 4-wk period was +73,000 bpd above a year ago. Imports were -5,000 bpd below last

year. Stocks fell -0.8 million barrels last week, a level -1.7 million barrels below last year, also a record low.

Look for jet fuel supplies to remain extremely tight in markets east of the Rockies.



**Residual fuel oil** demand increased +73,000 bpd last week. Demand for the latest 4-wk period was -59,000 bpd below a year ago.



Supply (production + imports) decreased -12,000 bpd on lower imports. Production was -110,000 bpd below a year ago for the latest 4-wk period, while imports also decreased -34,000 bpd. Stock levels ended the week nearly unchanged from a year ago.

Production and imports in the key gulf region are -20% and -15%; respectively below a year ago for the most recent 4-wk period. Even with the low supply, stock levels ended the week +1.1 million barrels above the historic range.





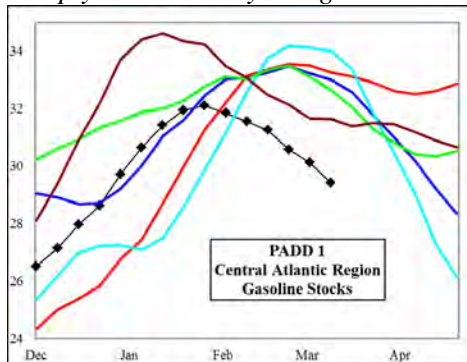
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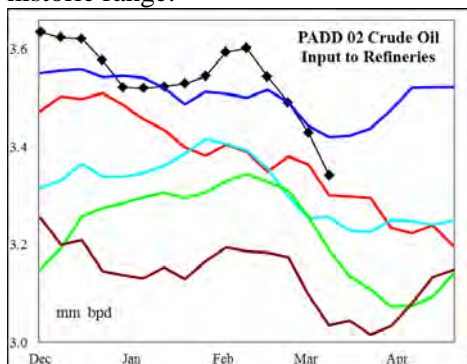
#### PADD Supply Trends

**PADD 1** refinery crude oil runs increased +71,000 bpd last week; with the latest 4-wk average +74,000 bpd above last year. Gasoline supply increased +49,000 bpd on higher production. Stocks fell -1.9 million barrels, to a level near 5-yr lows. *Central Atlantic Region stocks remain sharply below the 5-yr range.*



Distillate supply increased +35,000 bpd last week on higher production. Stocks increased +0.6 million barrels on the week, but remain -5.2 million barrels below the historic range.

Jet fuel imports fell -76,000 bpd on the week, to match record lows. Stocks ended the week -17% below the historic range.



**PADD 2** crude oil refinery runs increased +14,000 bpd last week, a level near the 2-yr mid range. Crude oil stocks increased +1.9 million barrels last week, including a -1 million barrel draw in Cushing.

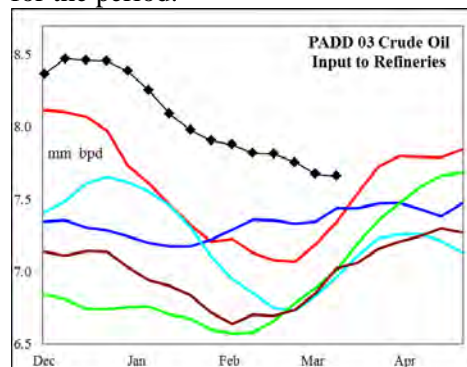
Gasoline supply decreased -15,000 bpd last week, and remains above the 5-yr range. Production for the most recent 4-wk period was +272,000 bpd above a year ago – *driven by the EIA recording sub octane product shipped*

*into the Midwest as finished product production when blended with ethanol.* Stocks fell -1.7 million barrels on the week, ending at a level well below the 5-yr range. *Gasoline imports from Canada into PADD 2 have climbed to nearly +15,000 bpd, an all time record.*

Distillate supply declined -30,000 bpd last week, with the 4-wk average +59,000 bpd above a year ago. Stock levels ended the week -7% below the 5-yr range.

Jet fuel production declined -27,000 bpd last week, with the 4-wk average +1,000 bpd above last year. Stock levels ended the week -9% below the 5-yr range.

**PADD 3** refinery runs decreased -65,000 bpd last week, a level slightly above the historic range. During the latest 4-wk period, average runs were +656,000 bpd above last year. Crude oil stocks climbed +4.7 million barrels last week, well above the historic range for the period.



Gasoline supply increased +179,000 bpd last week, with the latest 4-wk average +148,000 bpd above a year ago. Stocks jumped +2.3 million barrels last week, to a level significantly above the historic range.

Distillate supply increased +92,000 bpd on the week, with record high production for the period. The latest 4-wk average supply was +277,000 bpd above last year. Stocks fell -2.7 million barrels last week, to a level that matched last year's 5-yr lows.

Jet fuel production increased +14,000 bpd on the week, a level that matched historic highs. Stocks

increased +0.3 million barrels on the week, -15% below last year and a record low.

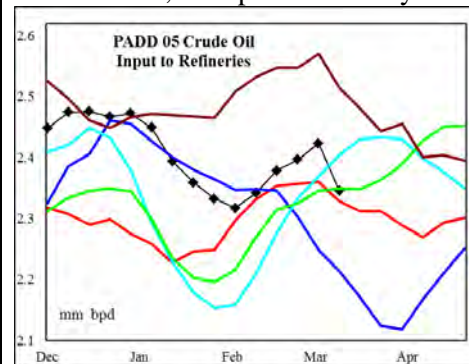
Residual fuel supply increased +29,000 bpd last week. Supplies remain -155,000 bpd below a year ago. **PADD 4** refinery crude runs increased +10,000 bpd last week, a level that matched historic highs for the season.

Gasoline production increased +36,000 bpd on the week, above the historic range, reflecting the restart of FCCU's and conversion of in process material to finished gasoline. Stocks spiked +0.6 million barrels on the week, with the level near 5-yr highs.

Distillate production increased +35,000 bpd on the week, a level that matched historic highs for the season. Stocks increased +0.3 million barrels to a level below each of the last 2-yrs.

Jet fuel production and stock levels were each comparable to the average of the last 2-yrs.

**PADD 5** crude oil refinery runs fell -65,000 bpd last week, a level near the 3-yr mid range. The latest 4-wk run rate was +52,000 bpd above last year.

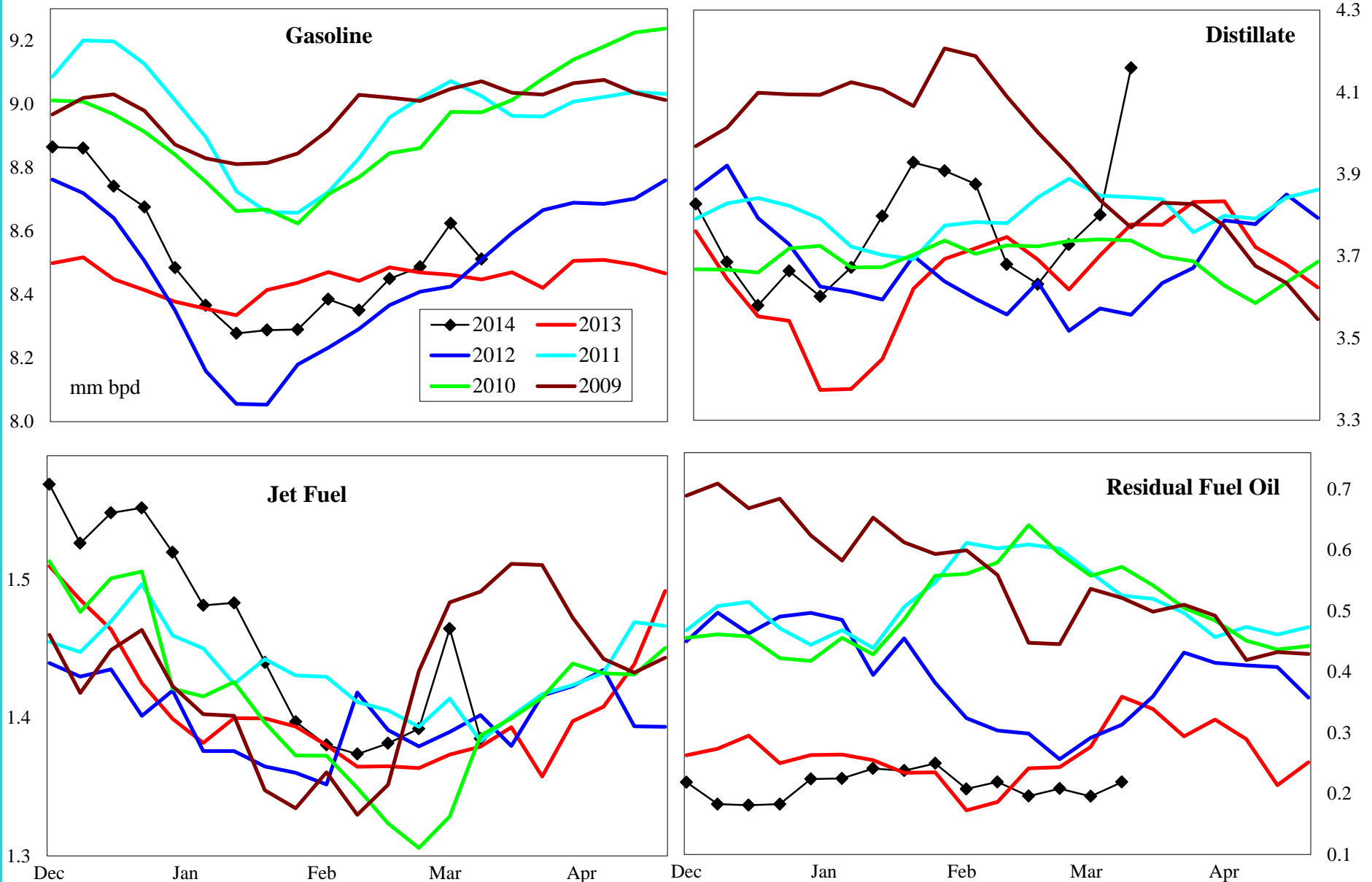


Gasoline supply declined -63,000 bpd last week with production at the 3-yr mid range. The latest 4-wk average supply was +24,000 bpd above a year ago. Stocks decreased -0.8 million barrels on the week, a level below the last 3-yrs.

Distillate supply fell -37,000 bpd, with the level still near historic highs for the period. The latest 4-wk average supply was +40,000 bpd above a year ago. Stocks fell -0.8 million barrels, to a level near the 3-yr mid range.



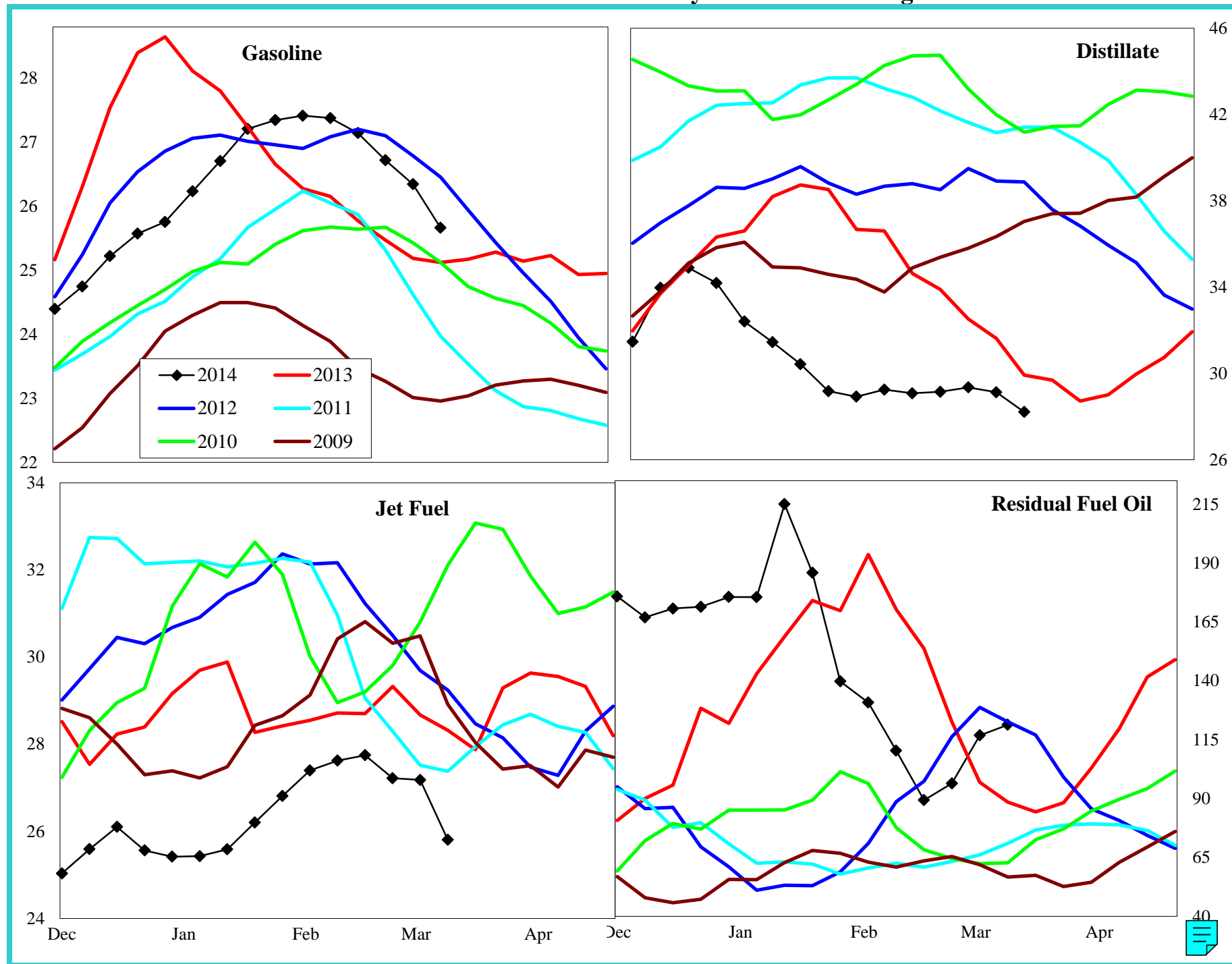
# United States Wholesale Petroleum Demand



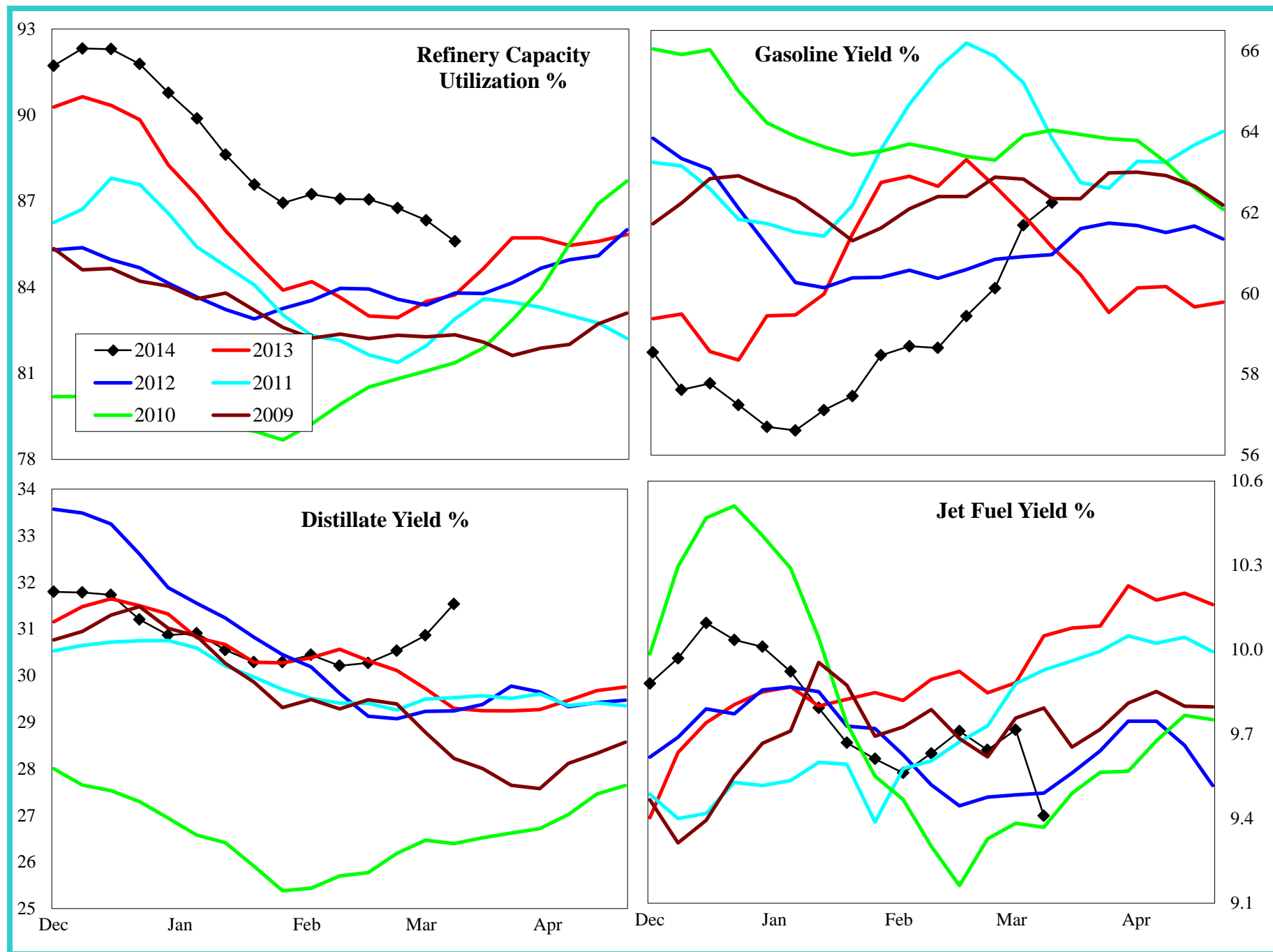
	000 bpd change from prior year				% change from prior year			
	4wk avg	Feb	Jan	Dec	4wk avg	Feb	Jan	Dec
<b>Gasoline</b>	124	-87	61	297	1.5	-1.0	0.7	3.5
<b>Distillate</b>	183	-360	-63	422	5.1	-9.1	-1.6	12.0
<b>Jet Fuel</b>	31	-10	140	66	2.3	-0.8	10.8	4.8
<b>Resid</b>	-59	-55	-52	28	-19.6	-18.1	-14.9	14.7



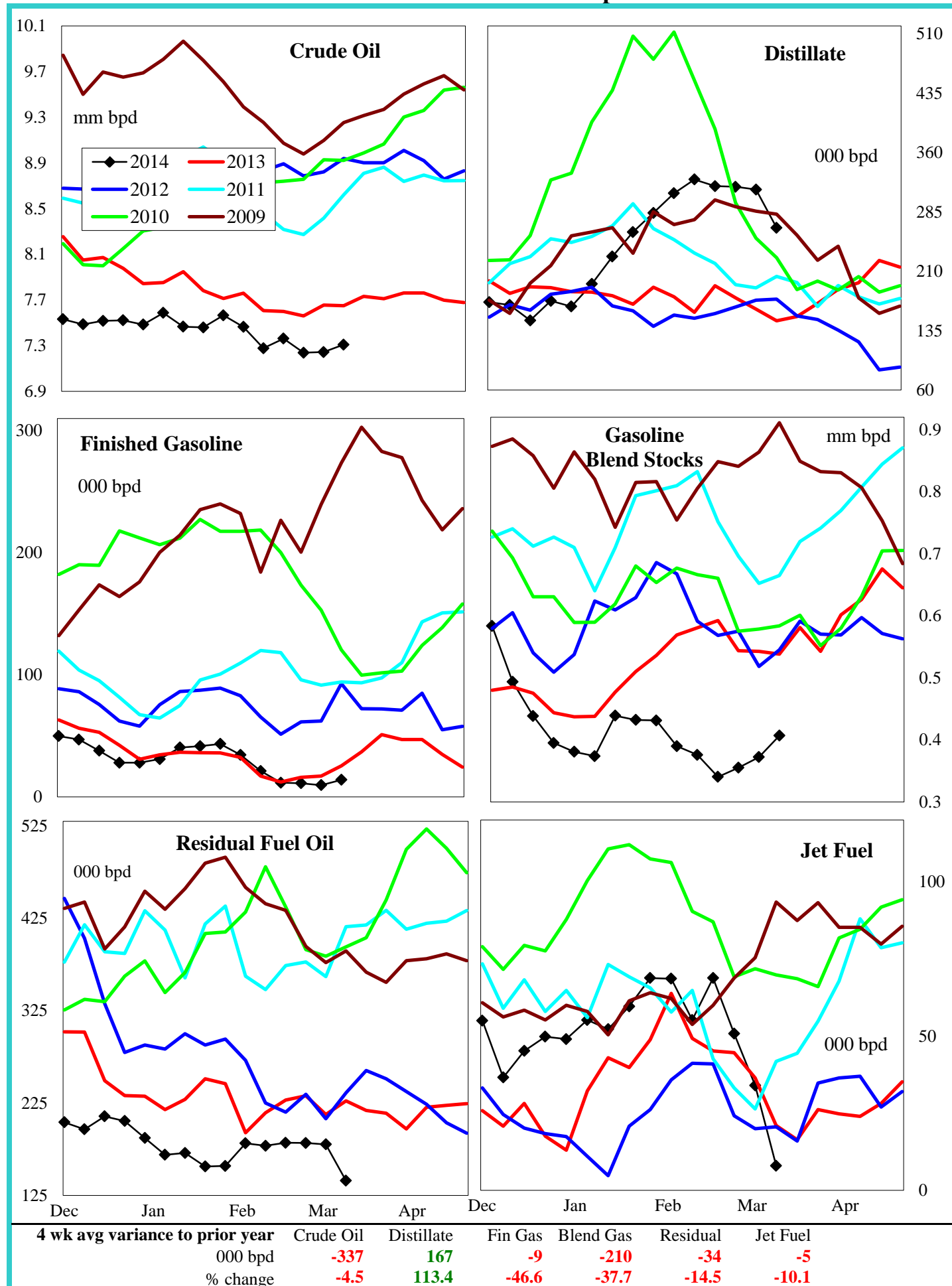
## United States Product Stocks: Days Forward Coverage



## United States Refinery Percent Utilization Rate and Product Yields

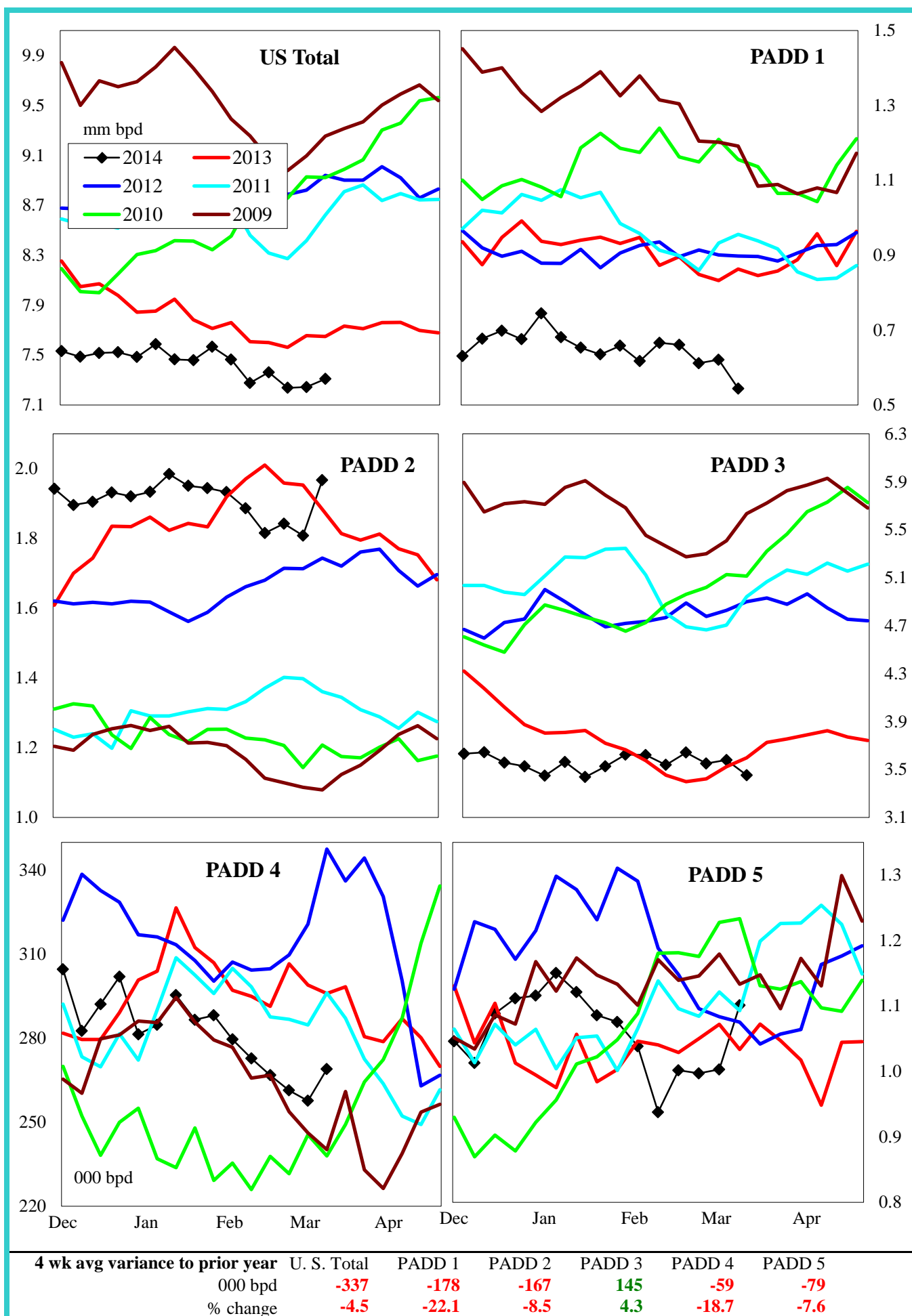


# United States Petroleum Imports

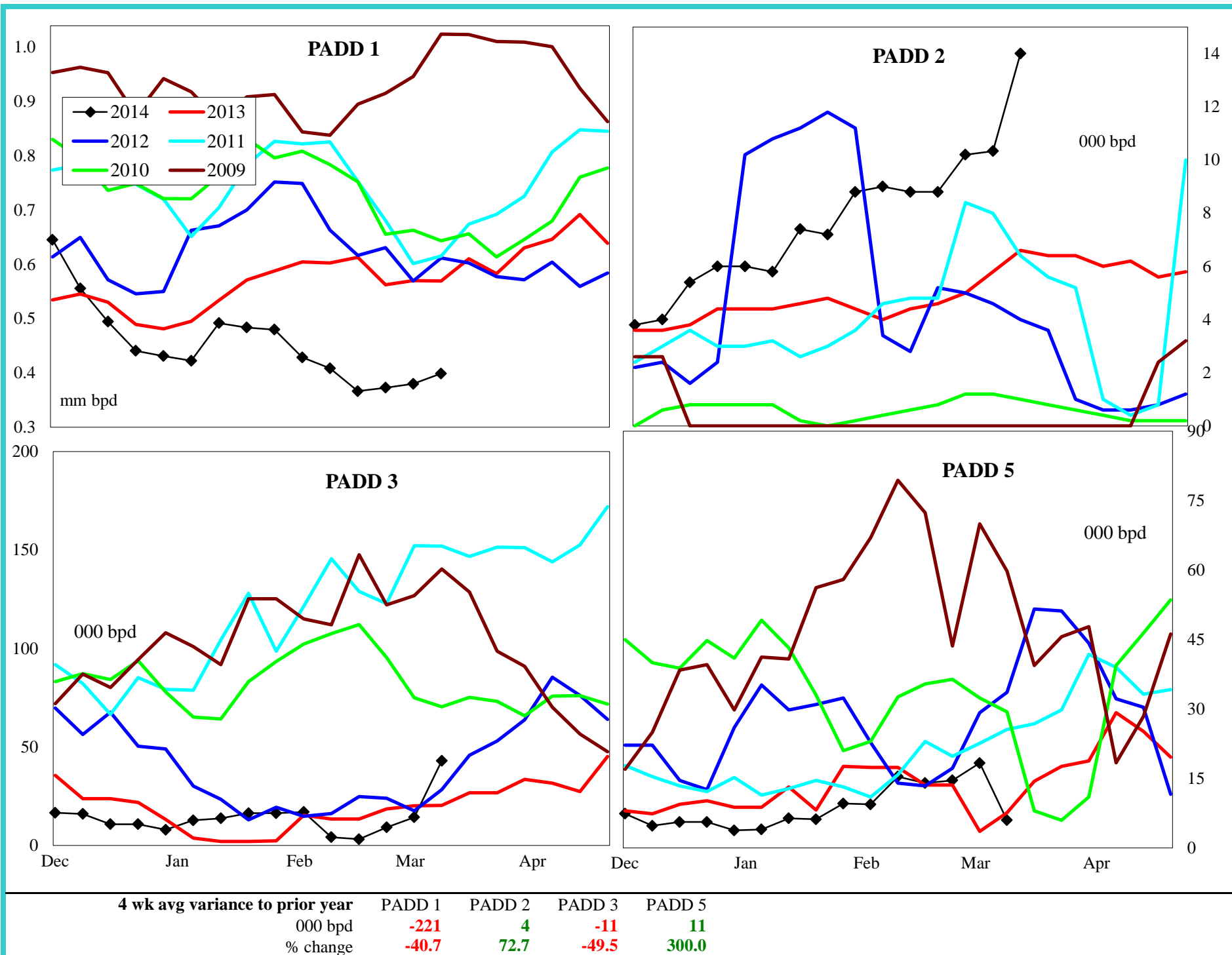




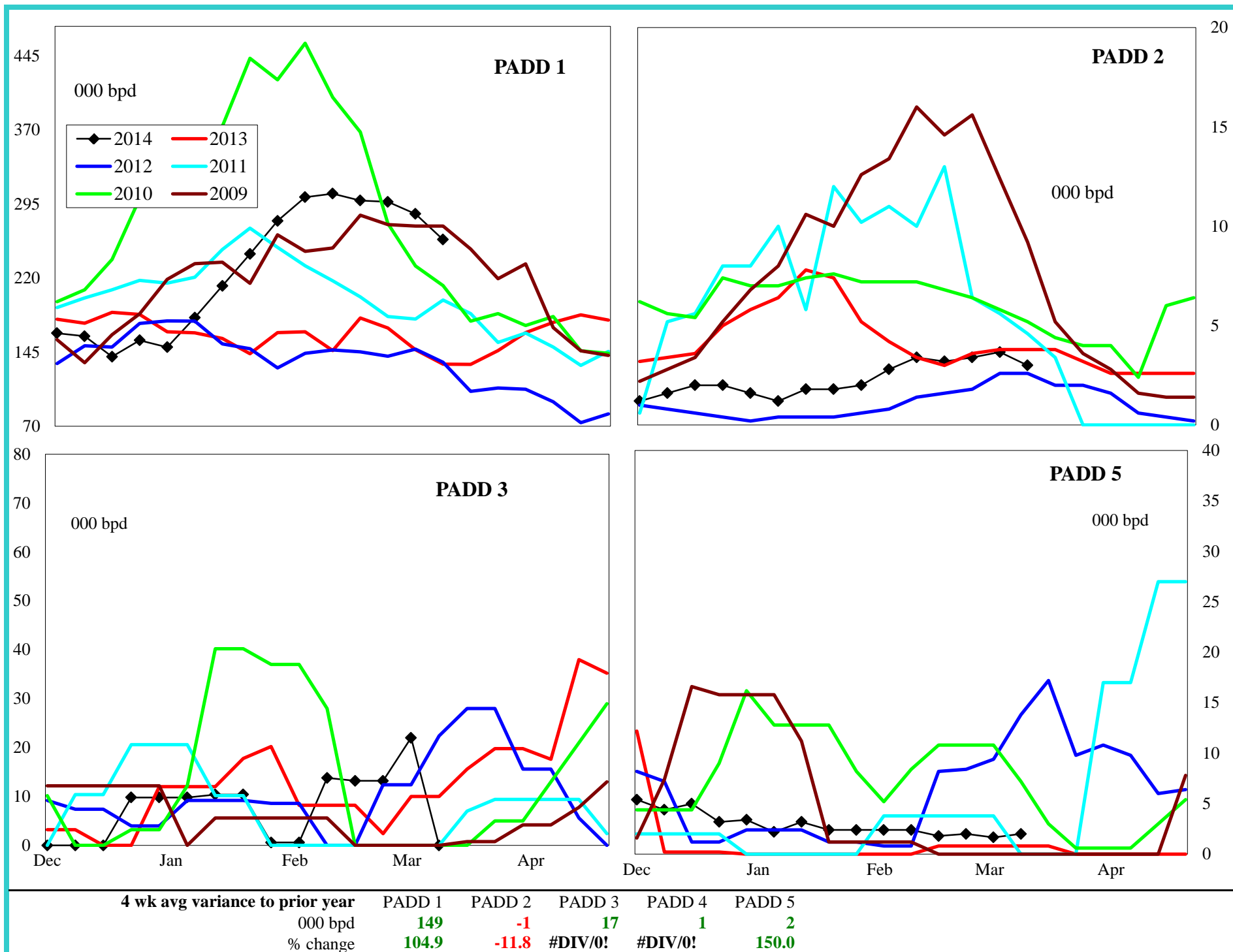
## Crude Oil Imports by PADD



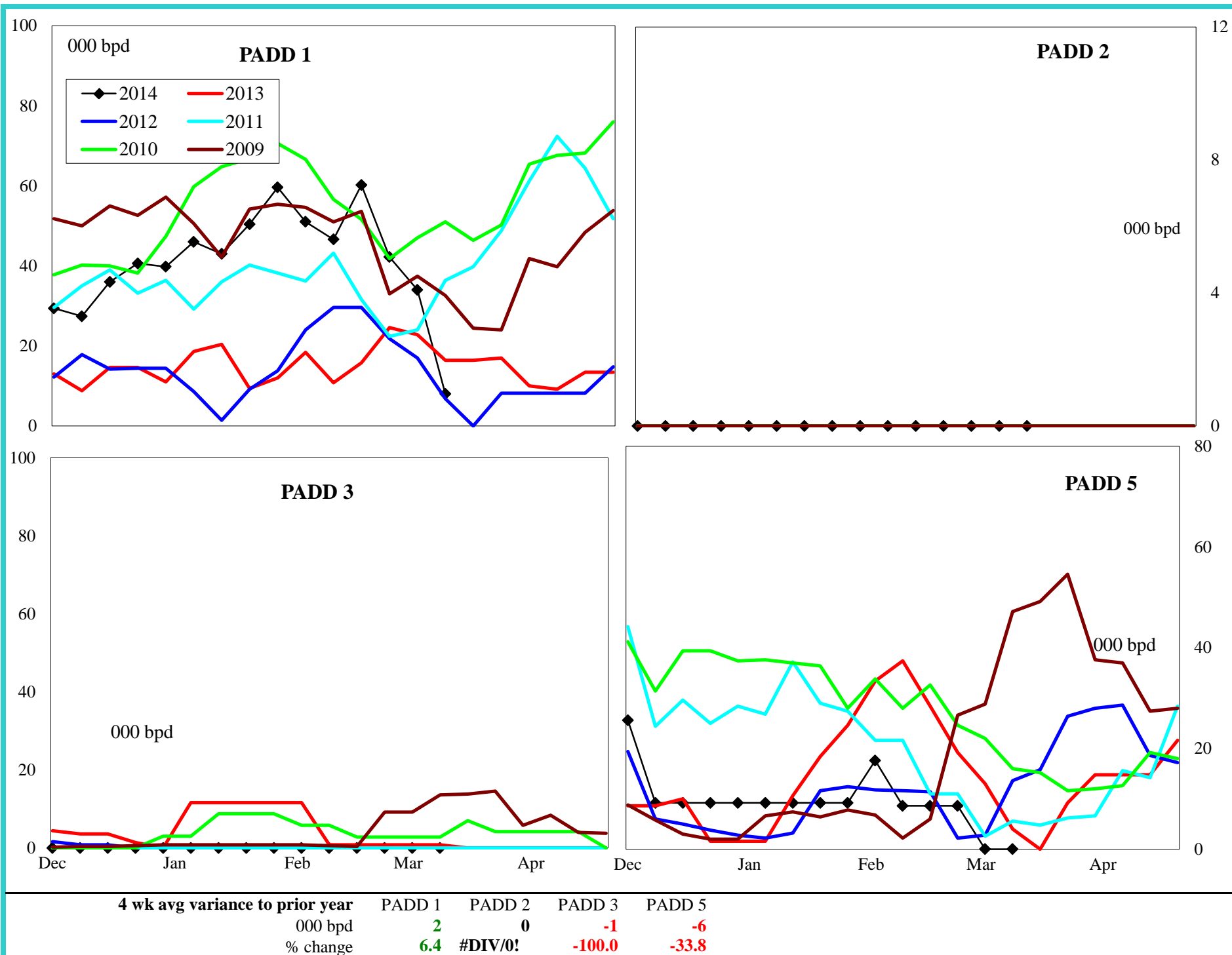
# Gasoline Imports by PADD (Finished + Blend Stocks)



# Distillate Imports by PADD

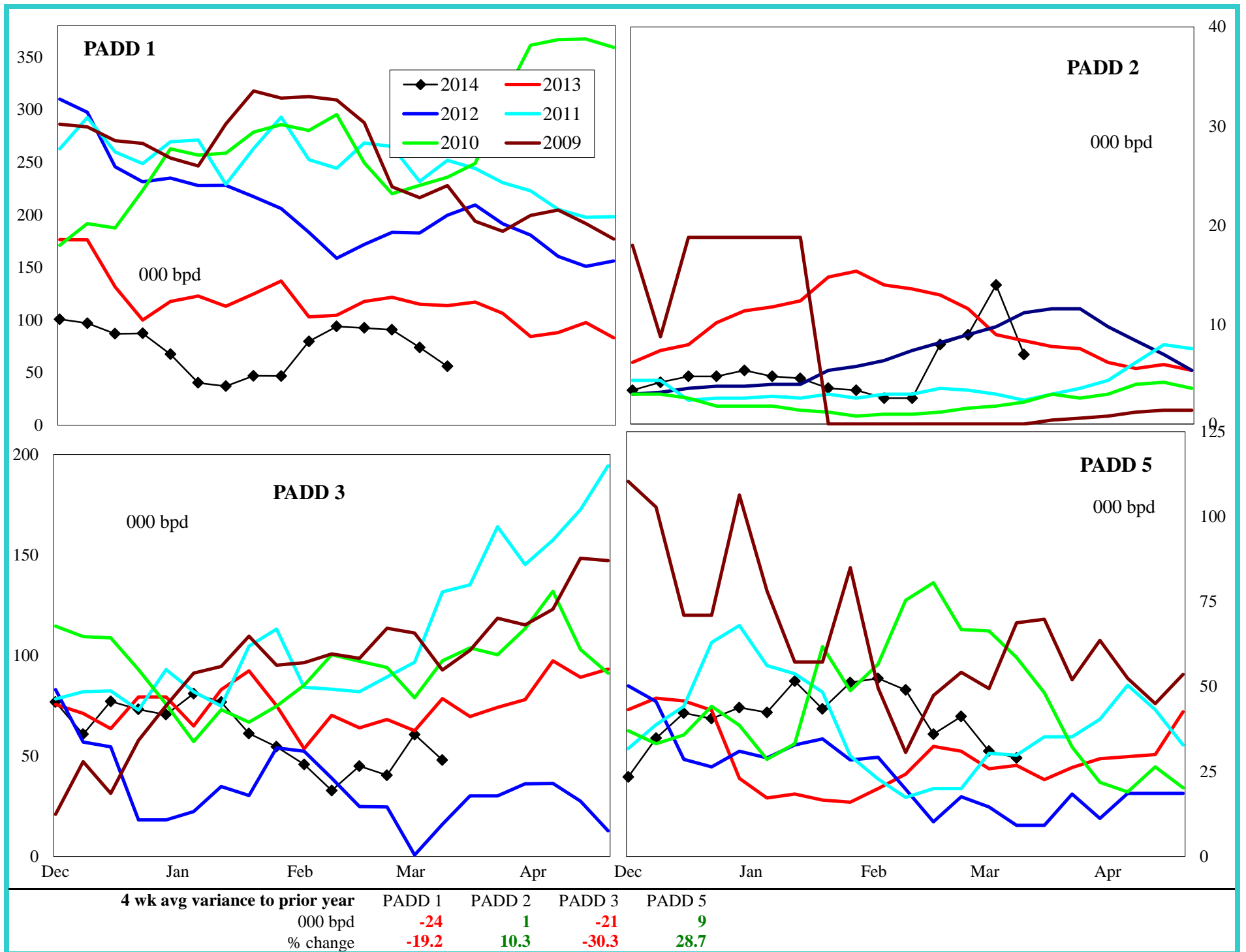


# Jet Fuel Imports by PADD

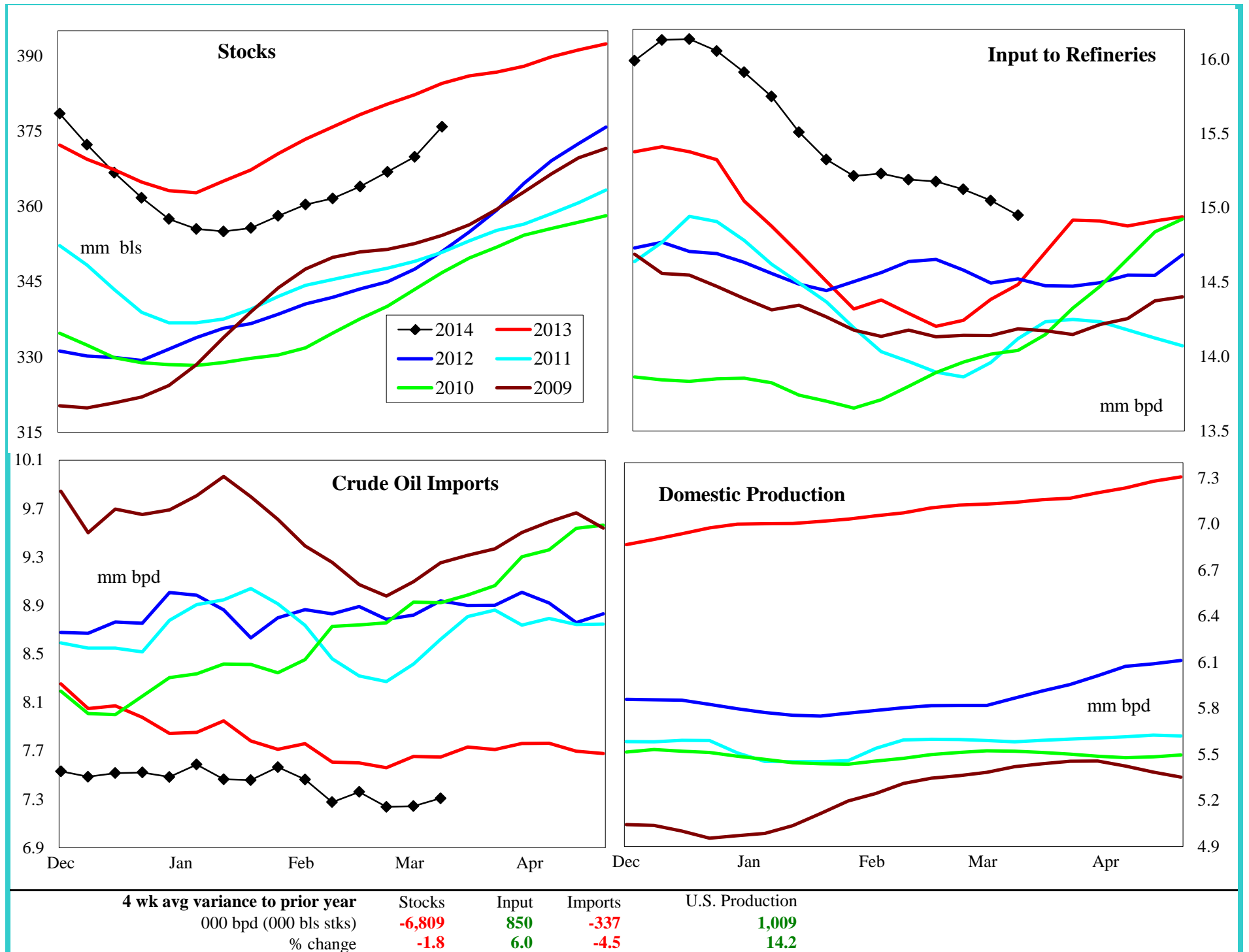




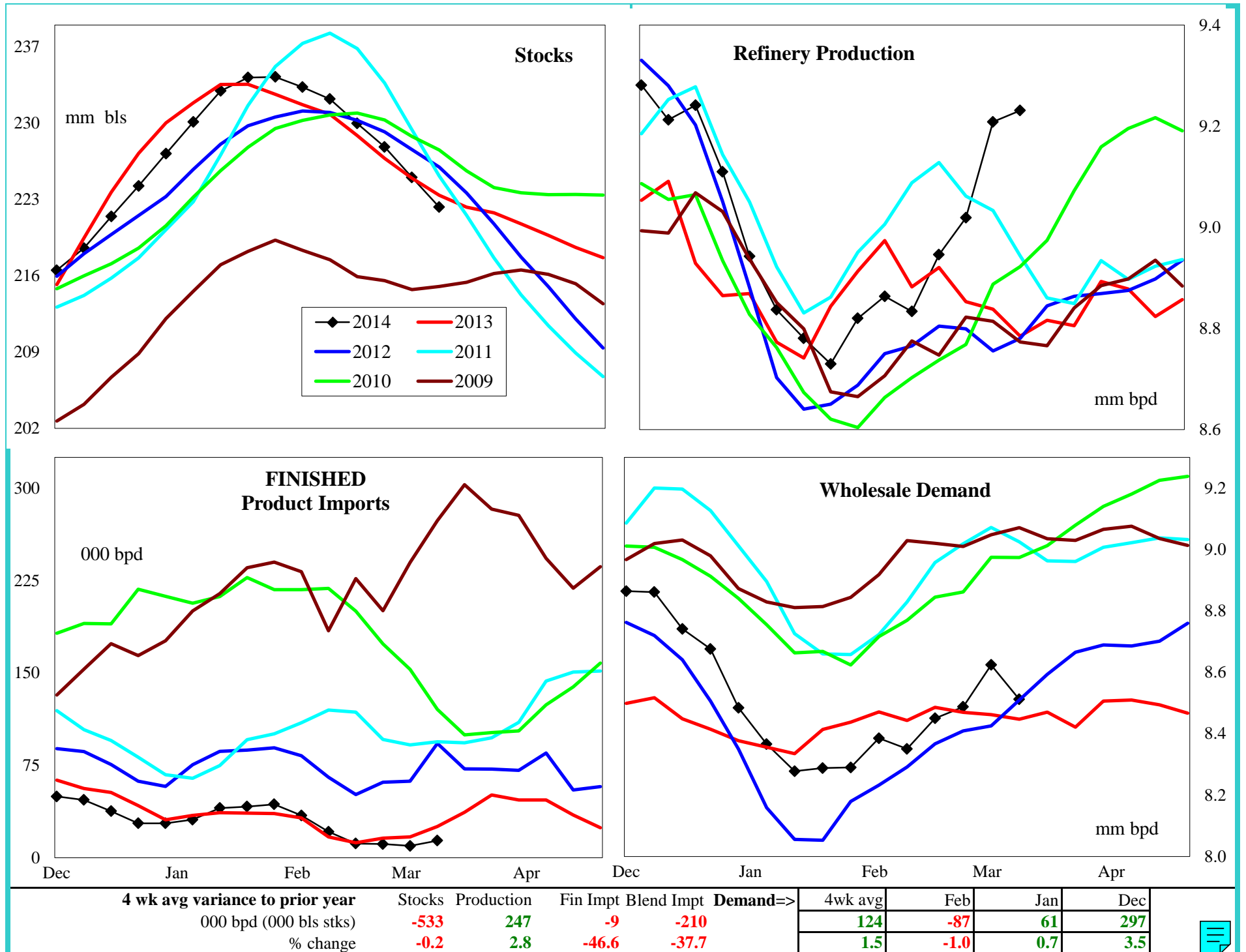
## Residual Fuel Oil Imports by PADD



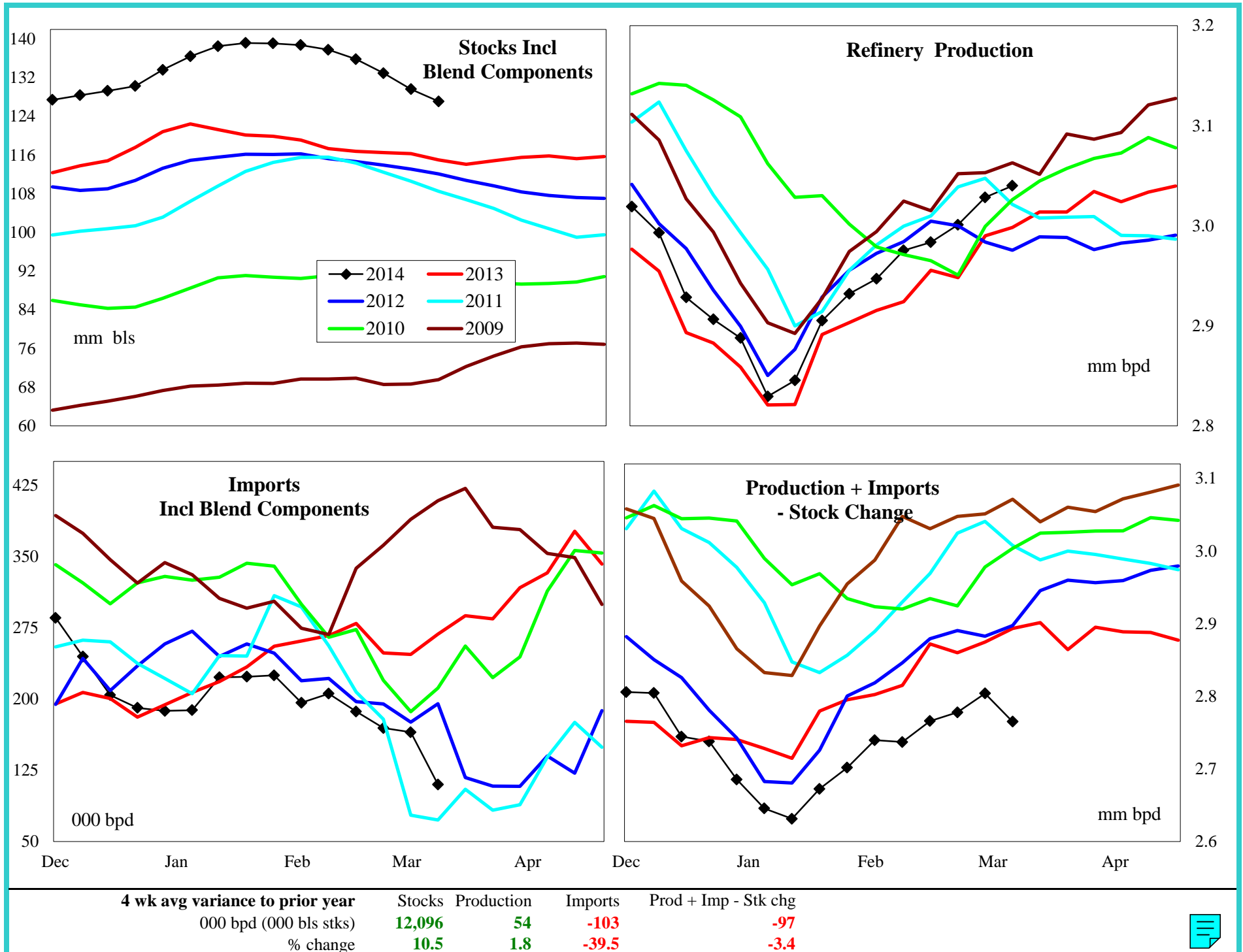
# United States Crude Oil Supply and Demand Balance



# United States Gasoline Supply and Demand Balance

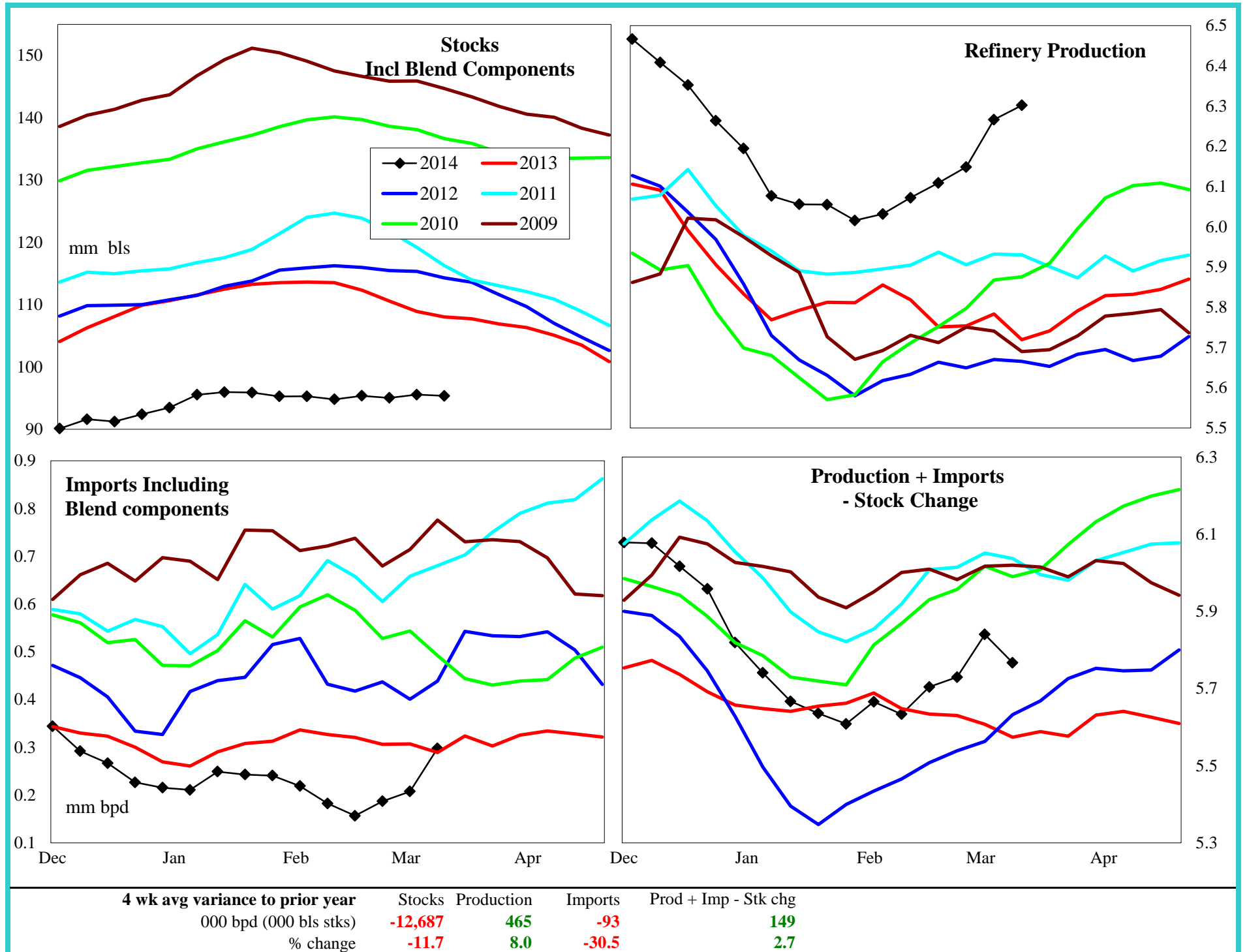


# United States Reformulated Gasoline Supply

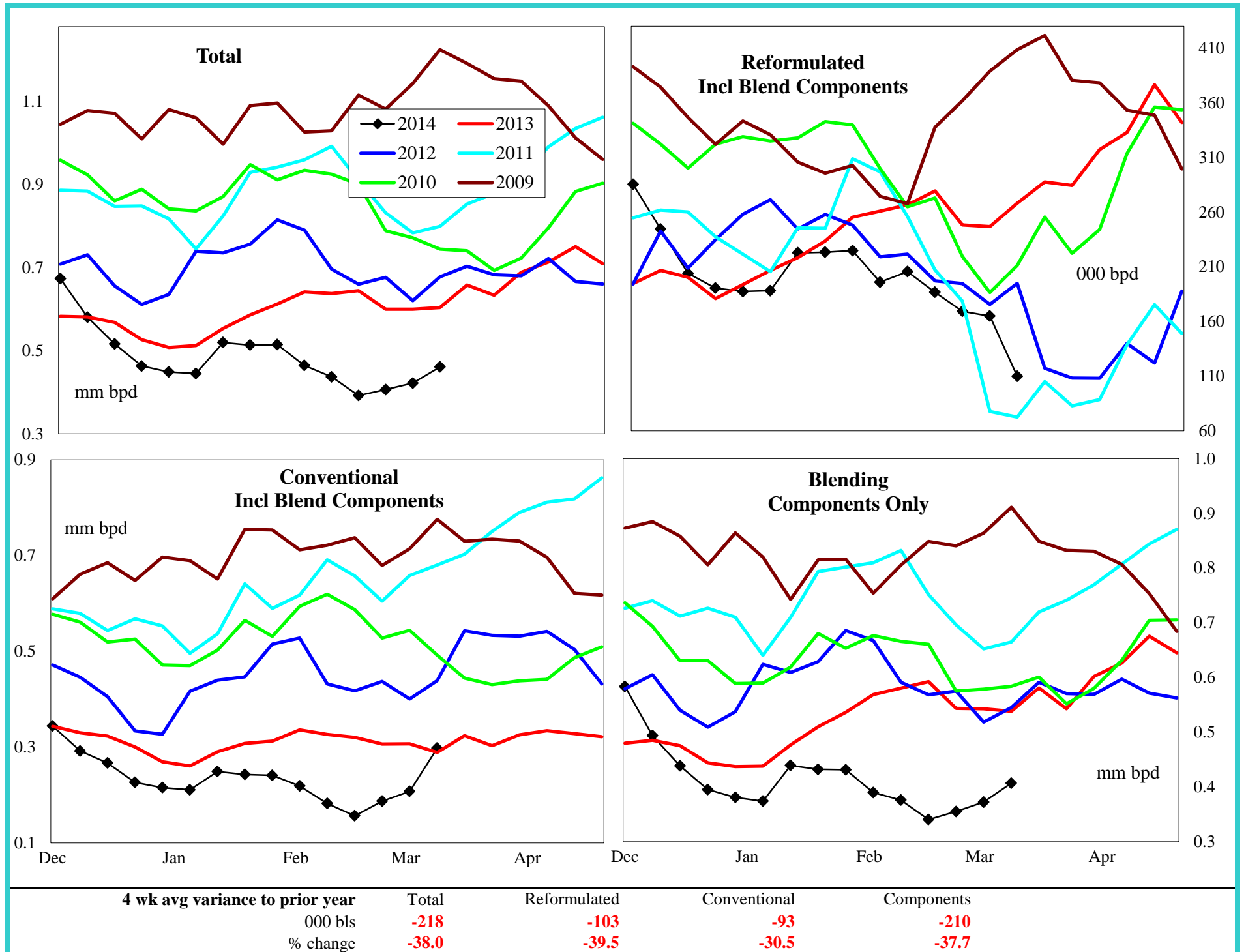




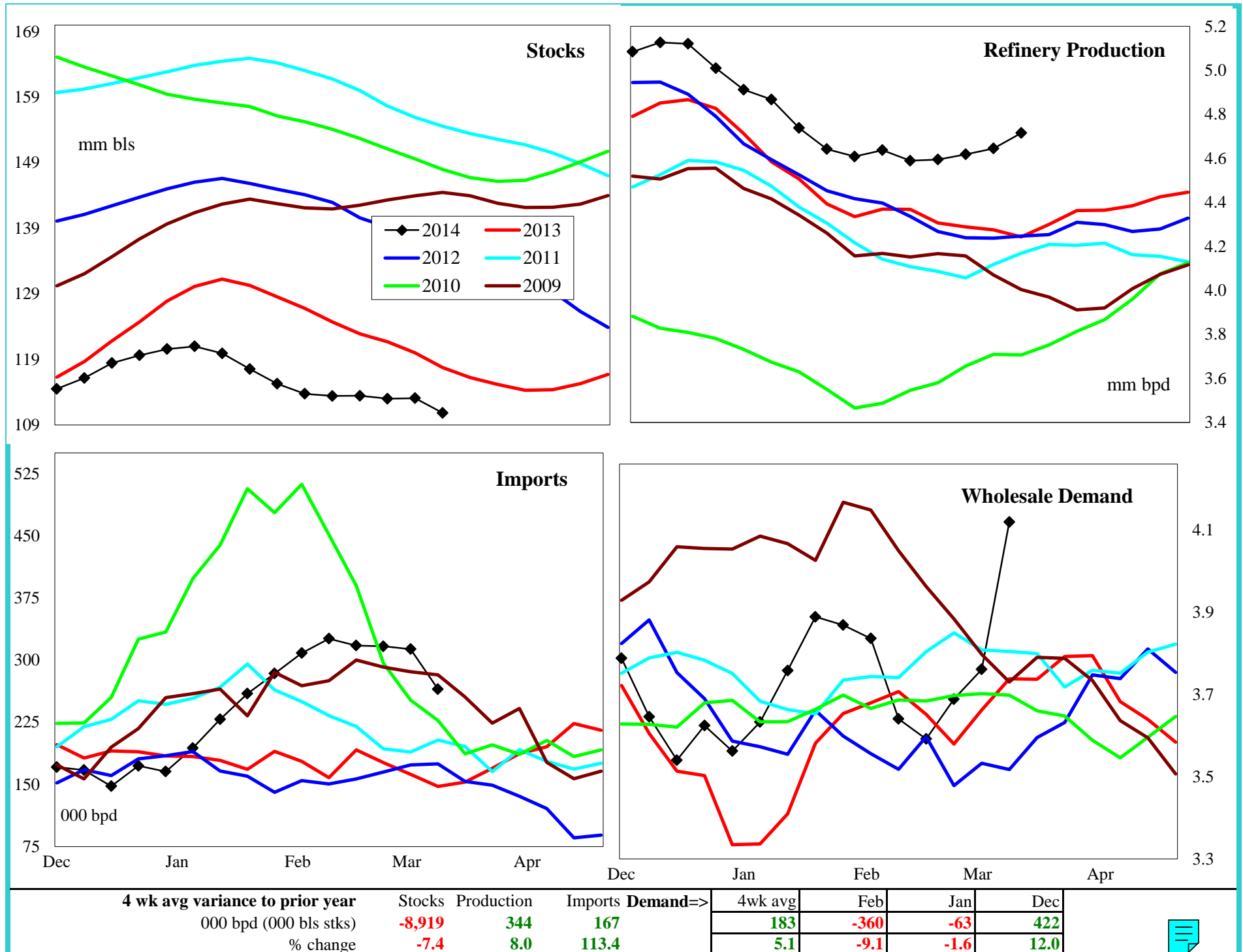
# United States Conventional Gasoline Supply



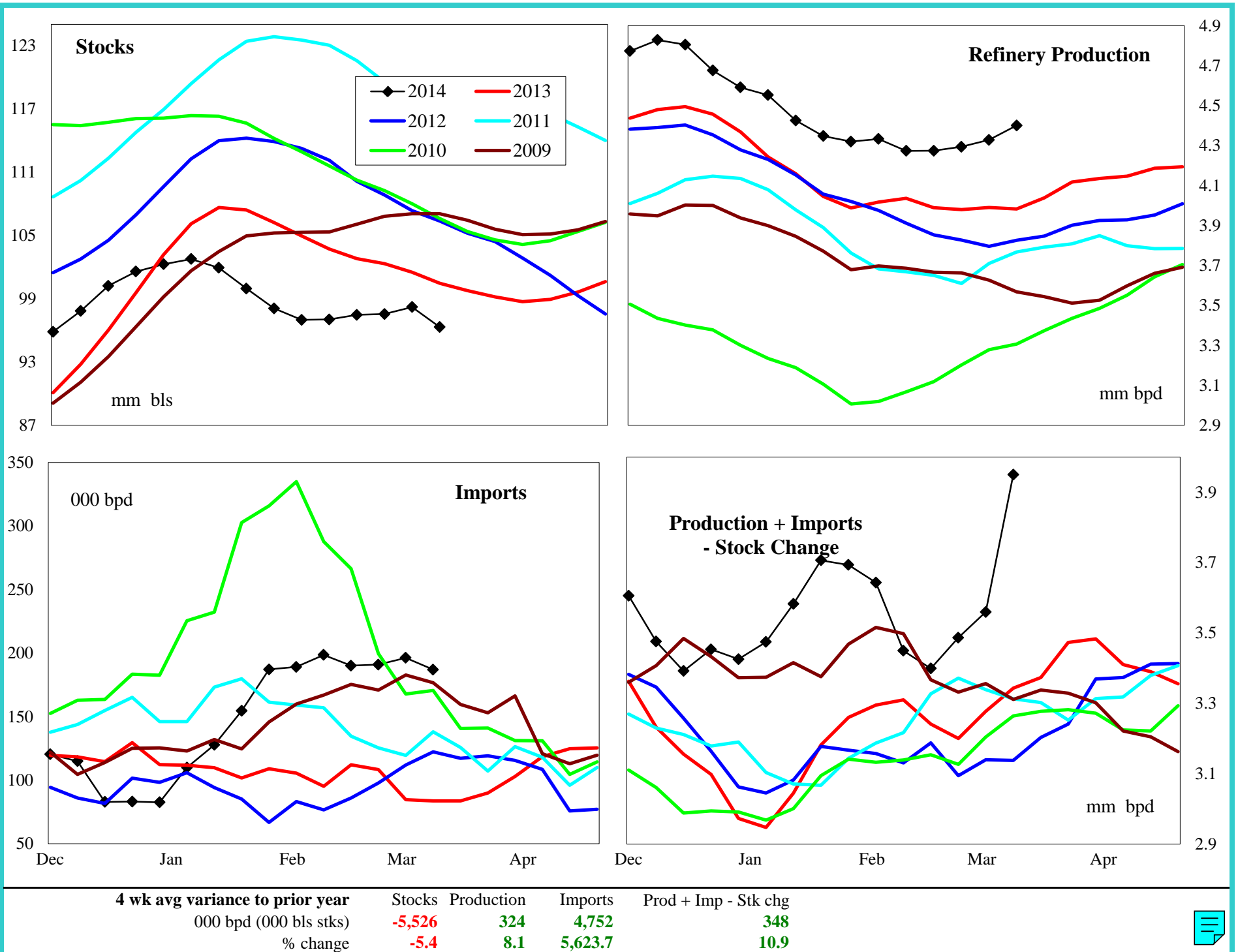
# United States Gasoline Imports by Type



# United States Distillate Supply and Demand Balance

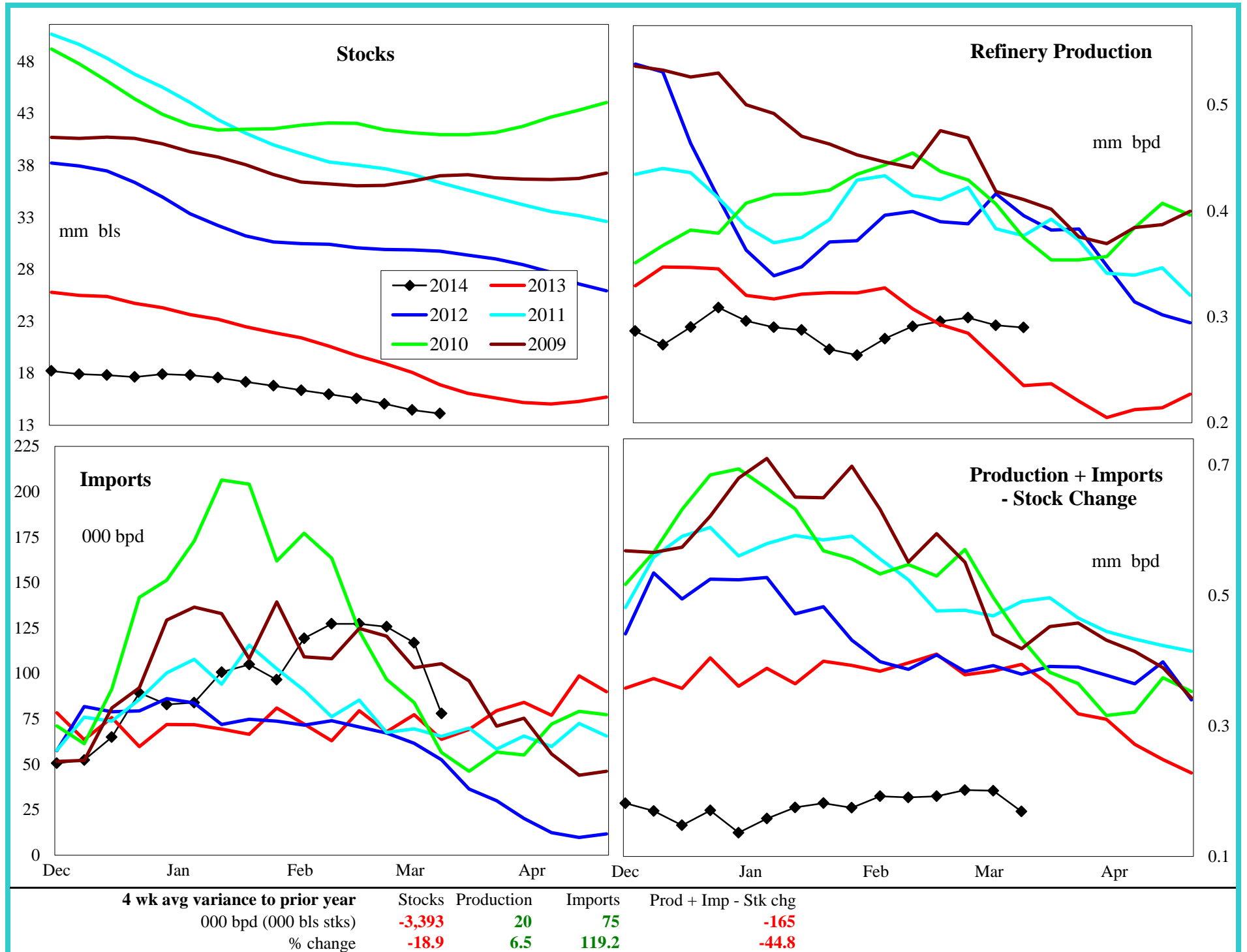


# United States Low Sulfur Distillate Supply

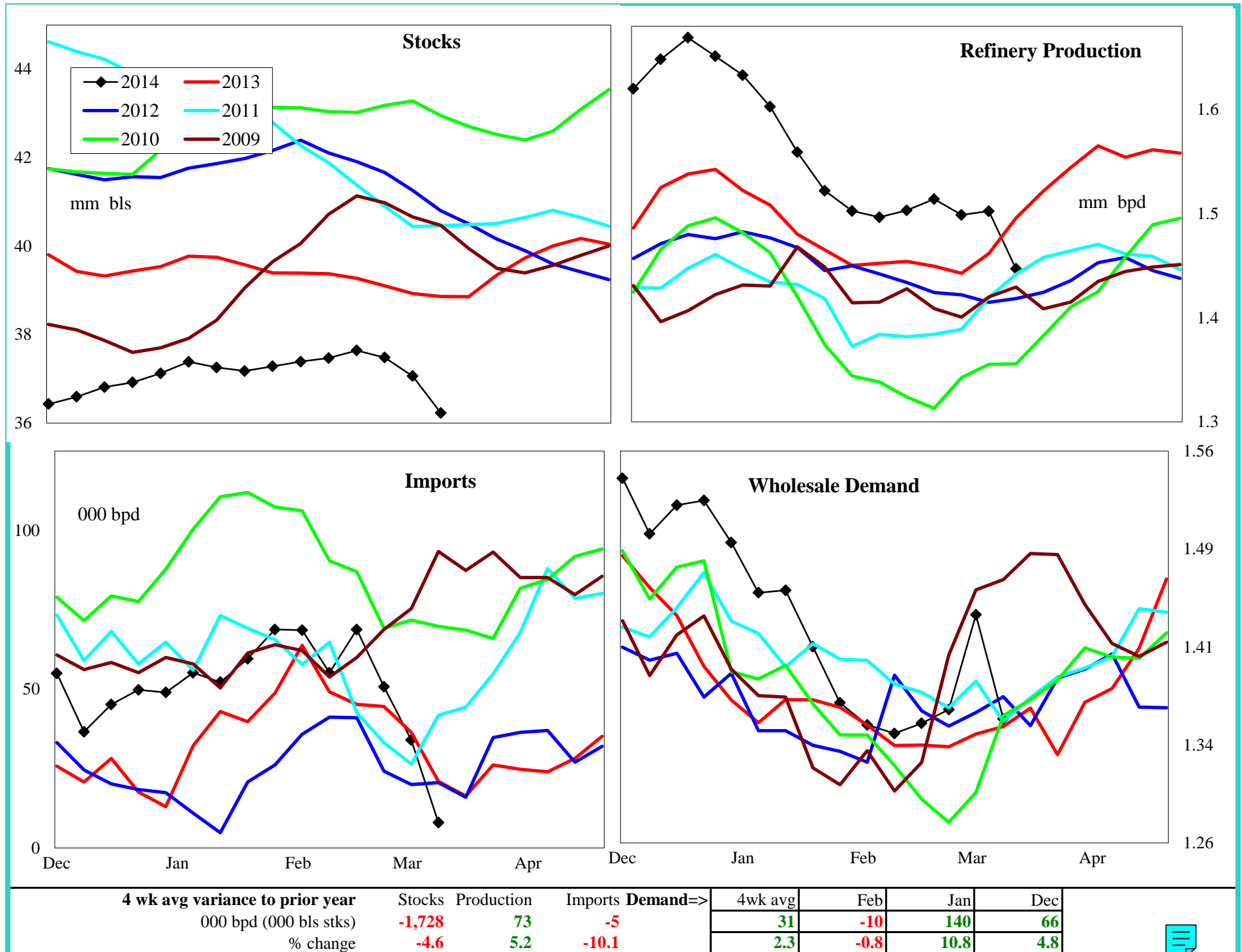




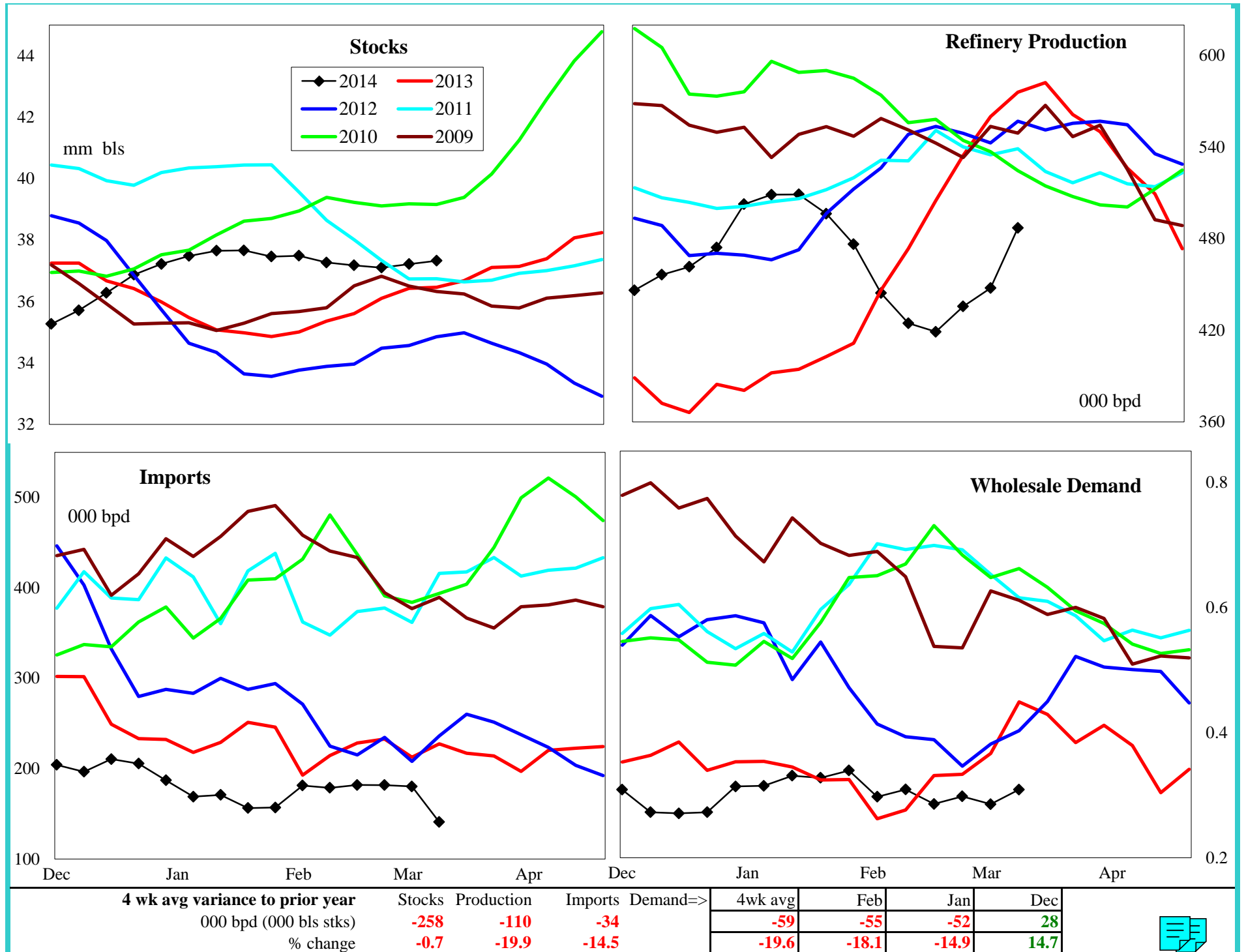
# United States High Sulfur Distillate Supply



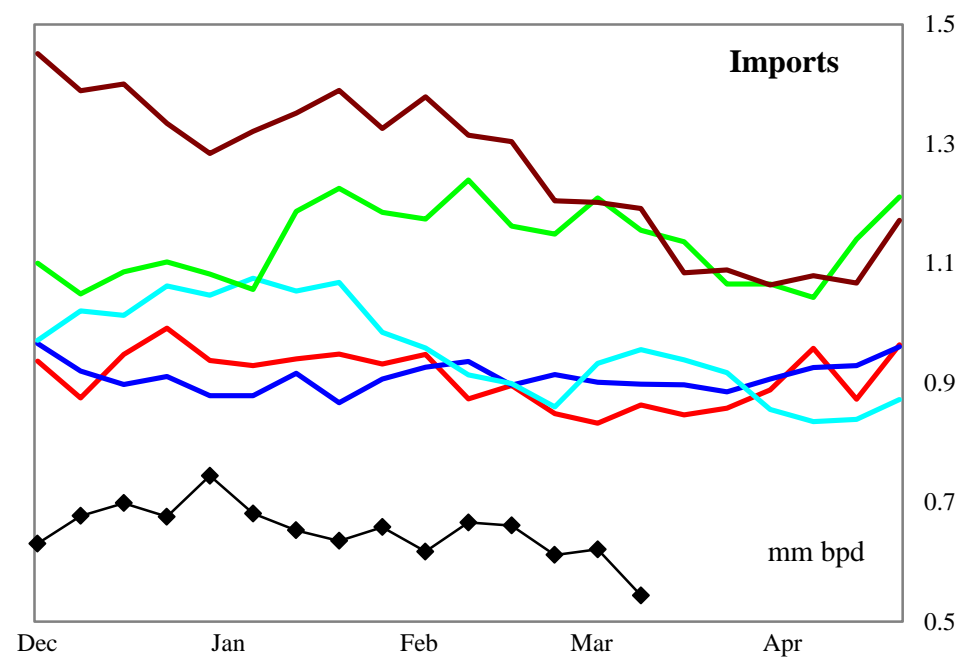
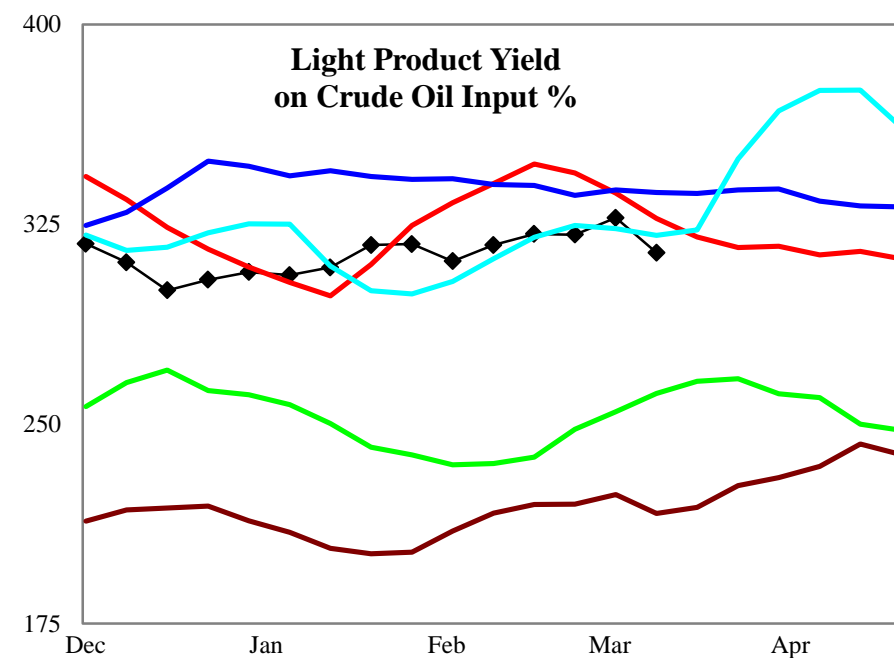
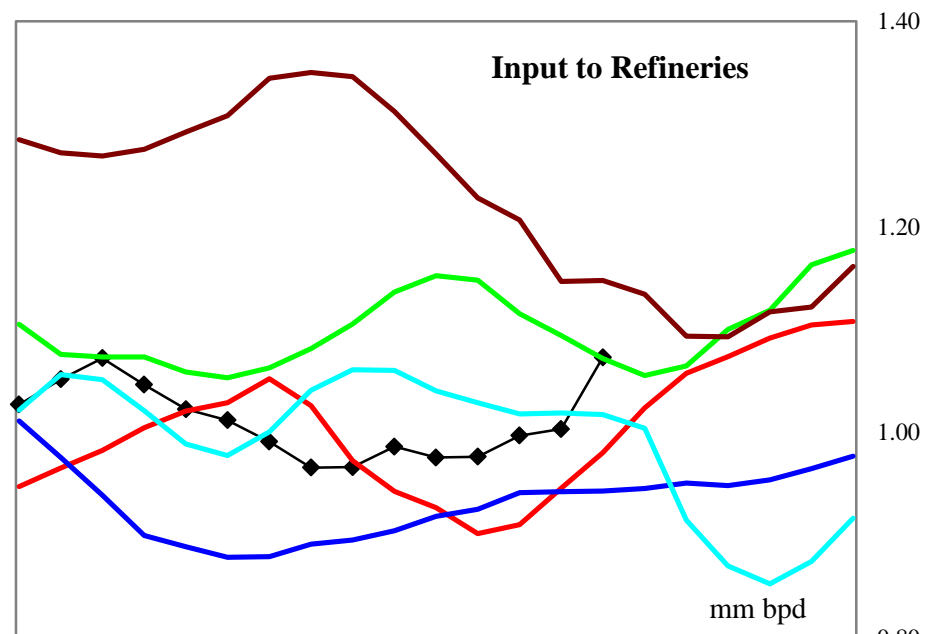
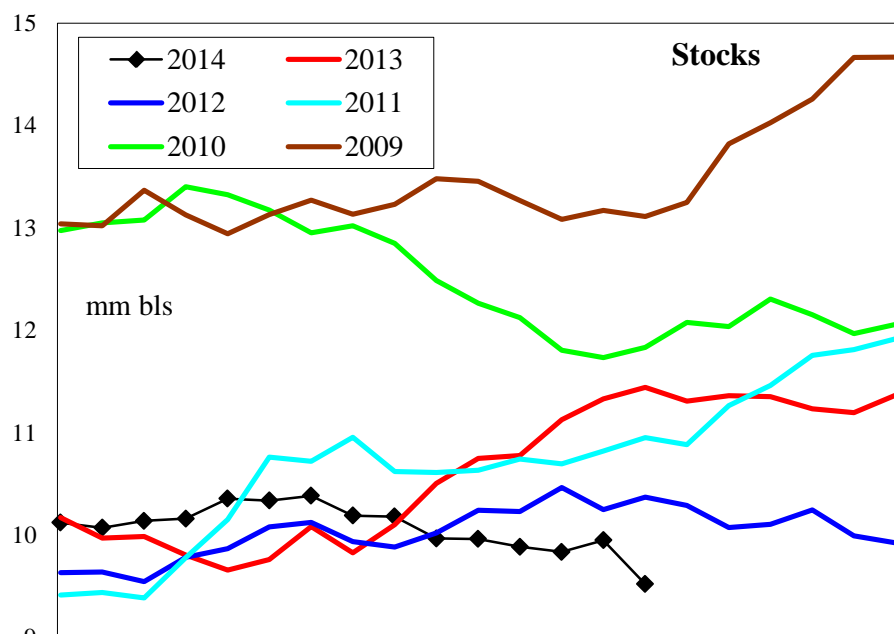
# United States Jet Fuel Supply and Demand Balance



# United States Residual Fuel Oil Supply and Demand Balance



# PADD 1 Crude Oil Supply and Refining



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

-1,921

-16.2

Input

74

7.9

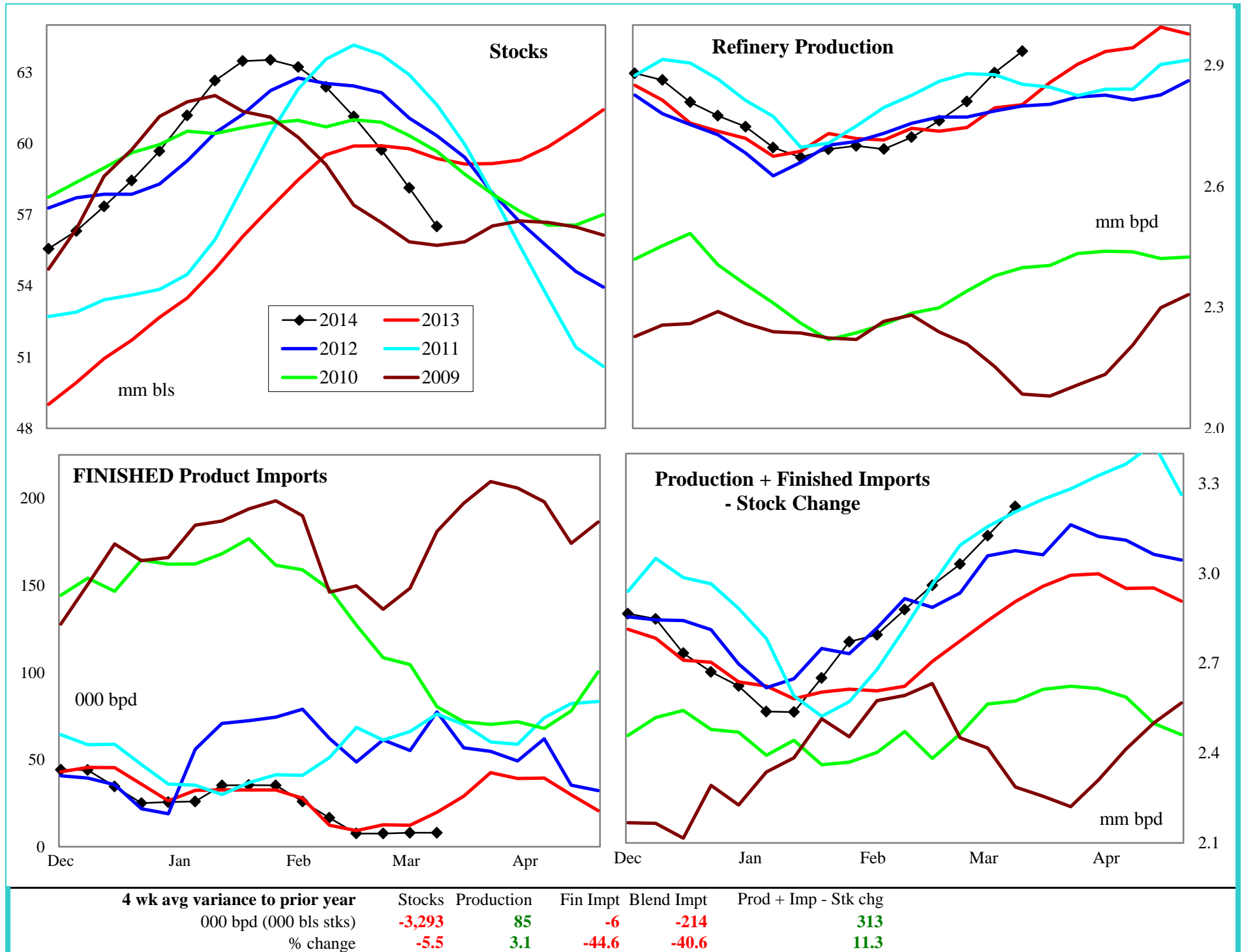
Imports

-178

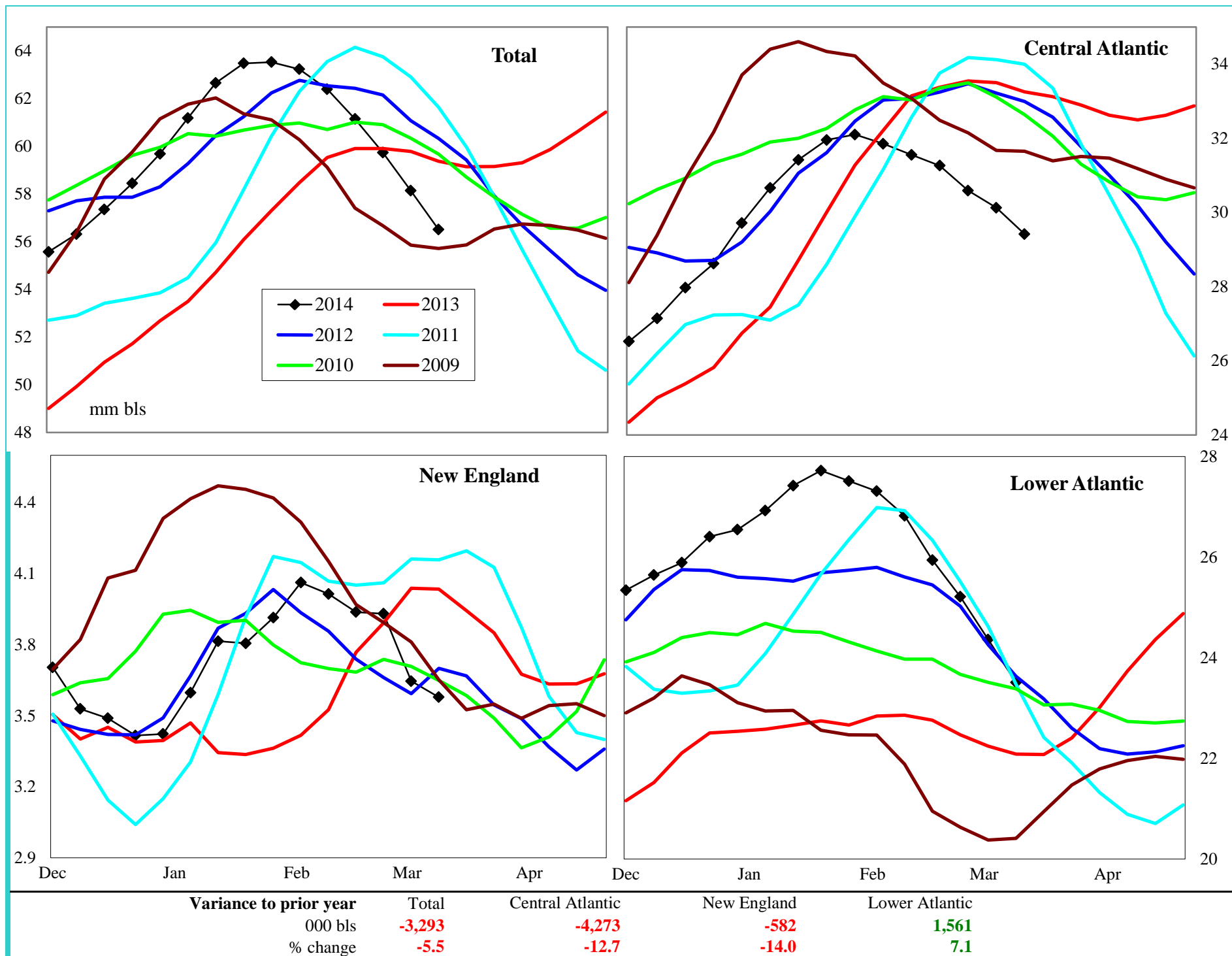
-22.1



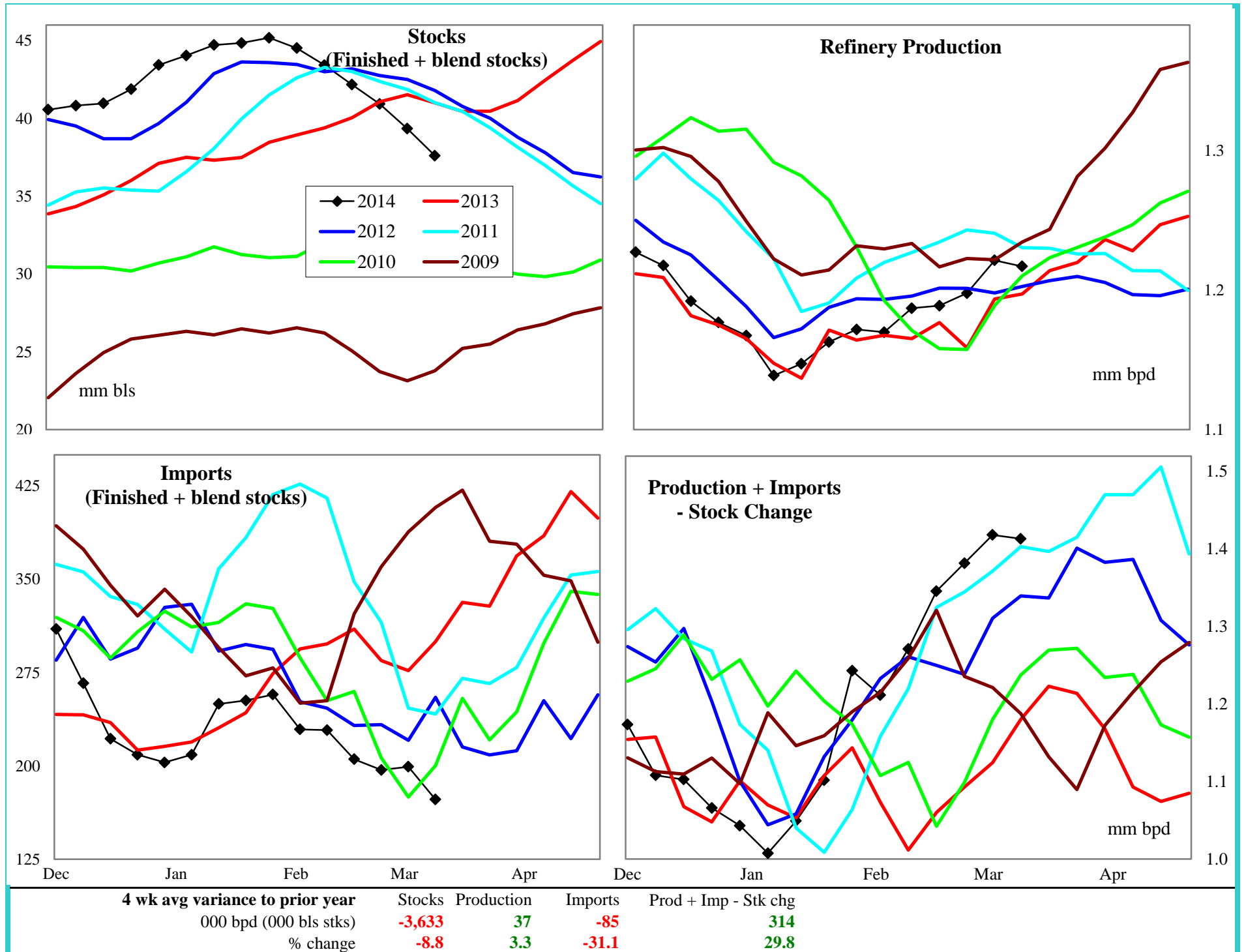
# PADD 1 Gasoline Supply



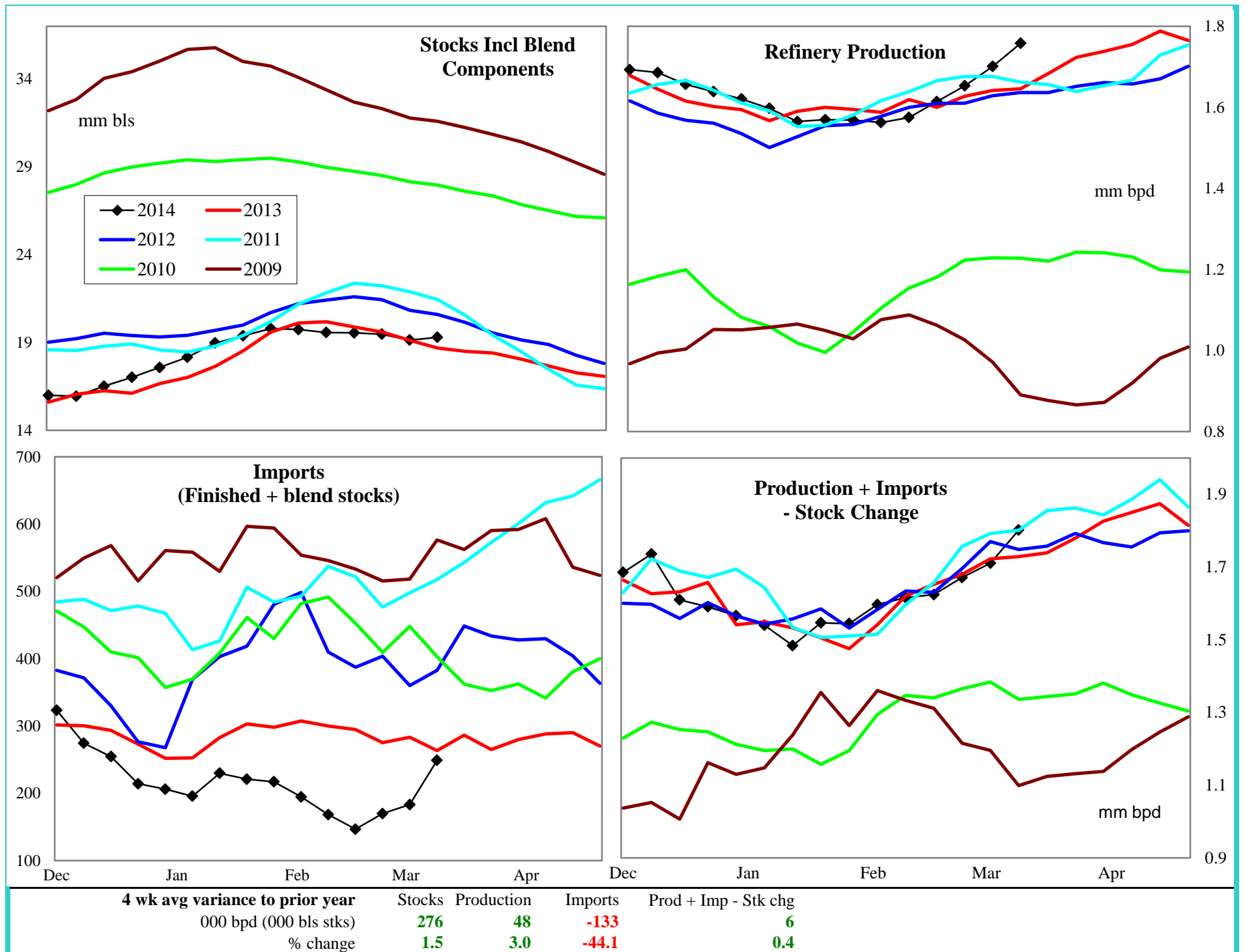
# PADD 1 Gasoline Stocks by Region



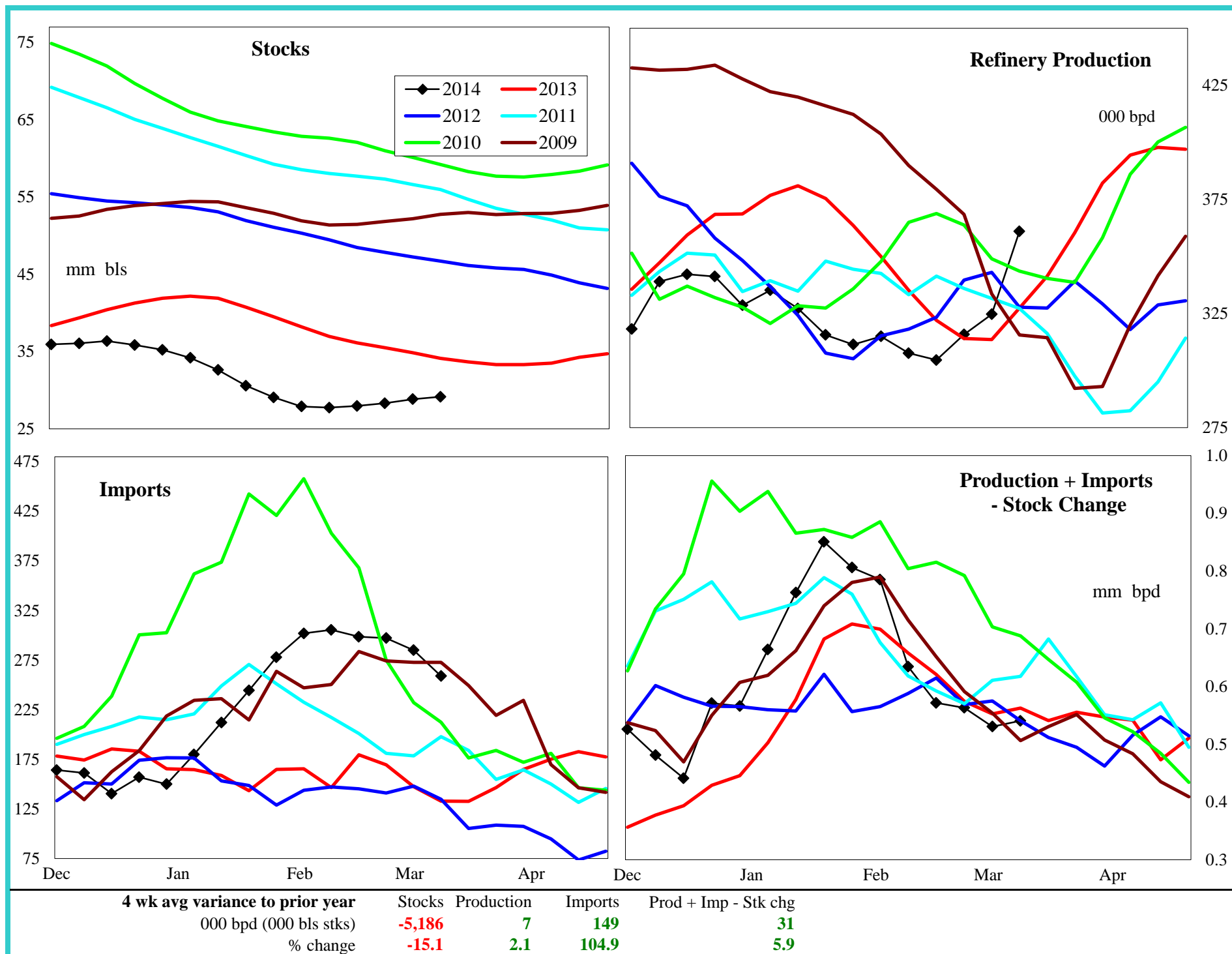
# PADD 1 Reformulated Gasoline Supply



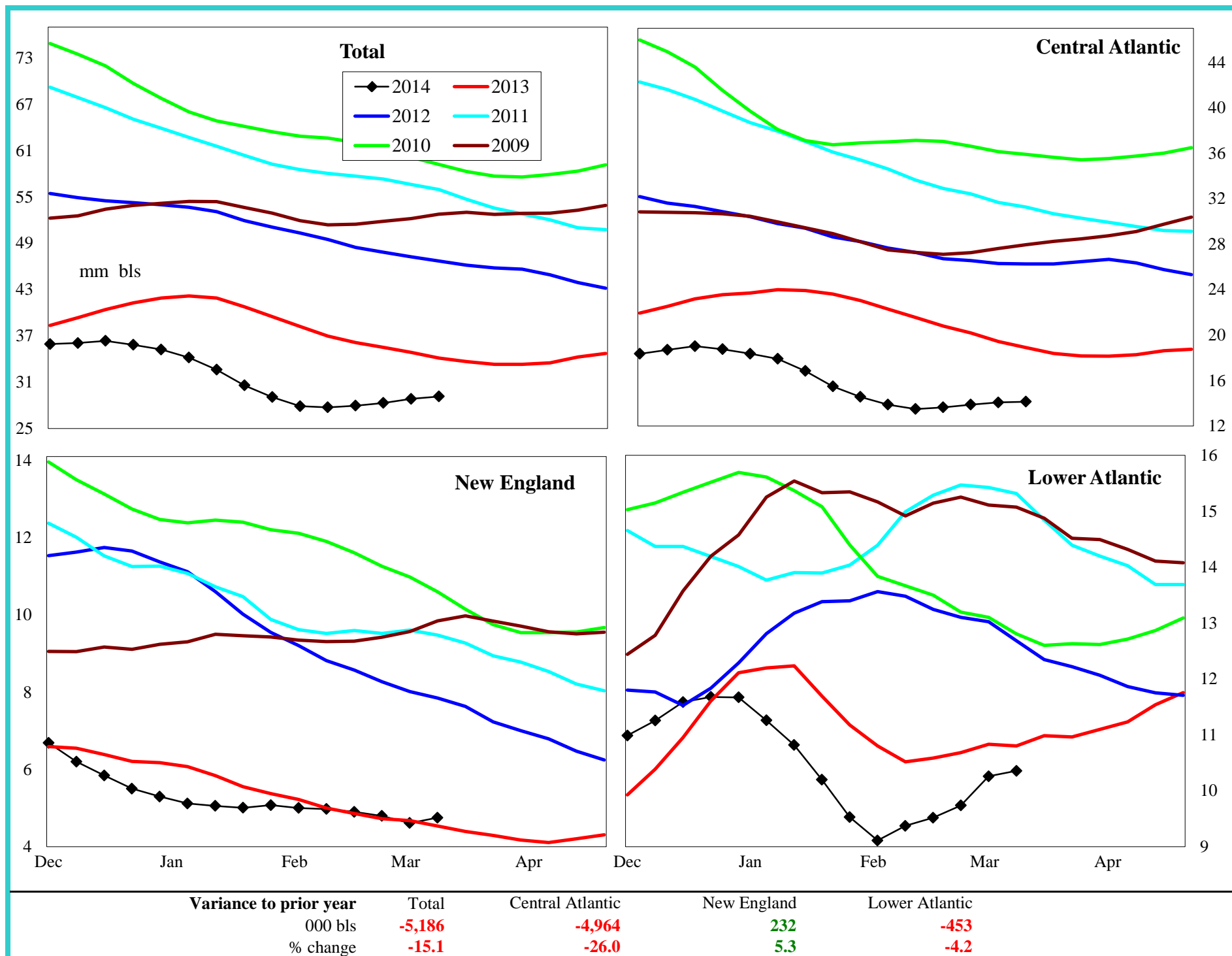
# PADD 1 Conventional Gasoline Supply



## PADD 1 Distillate Supply

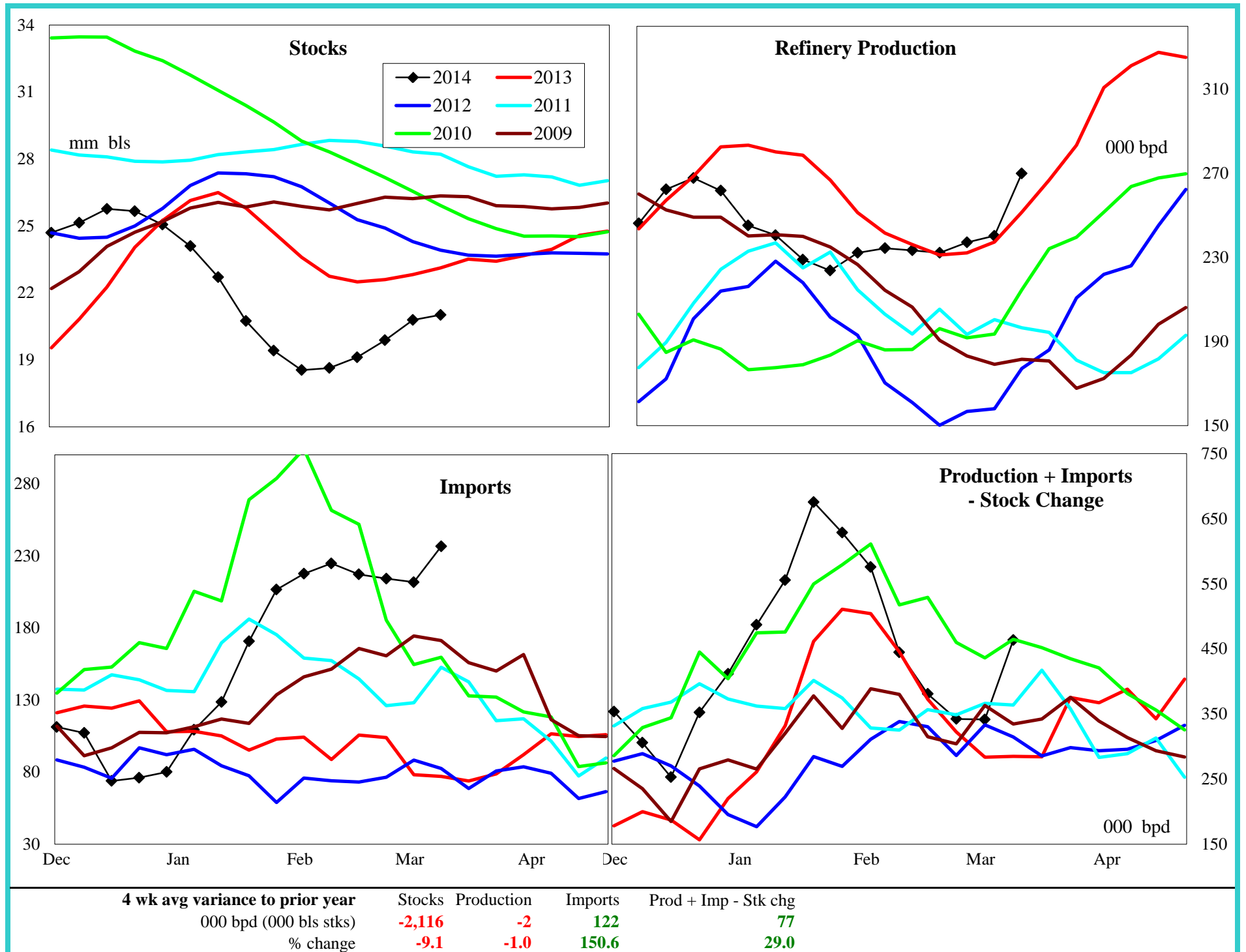


# PADD 1 Distillate Stocks by Region

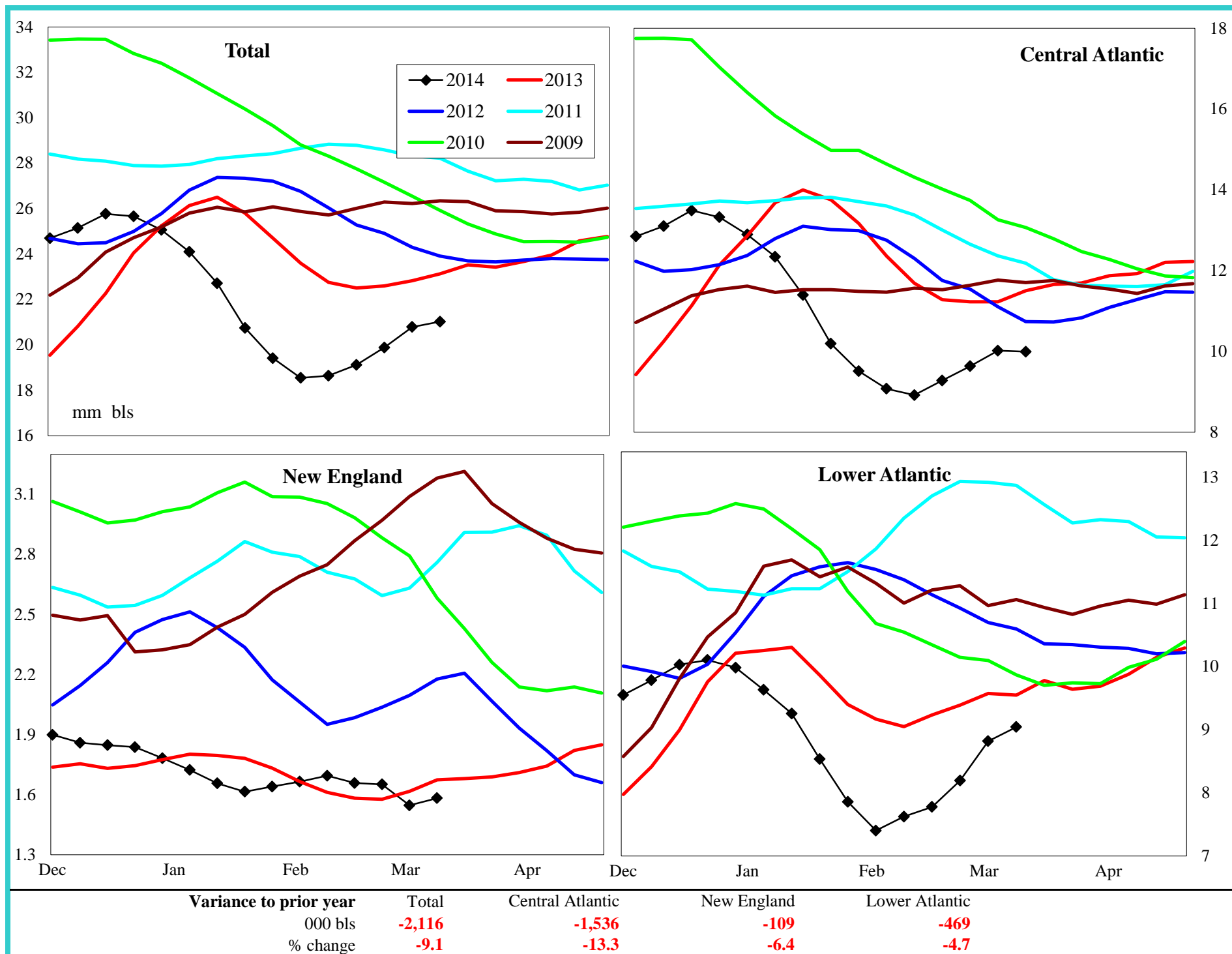




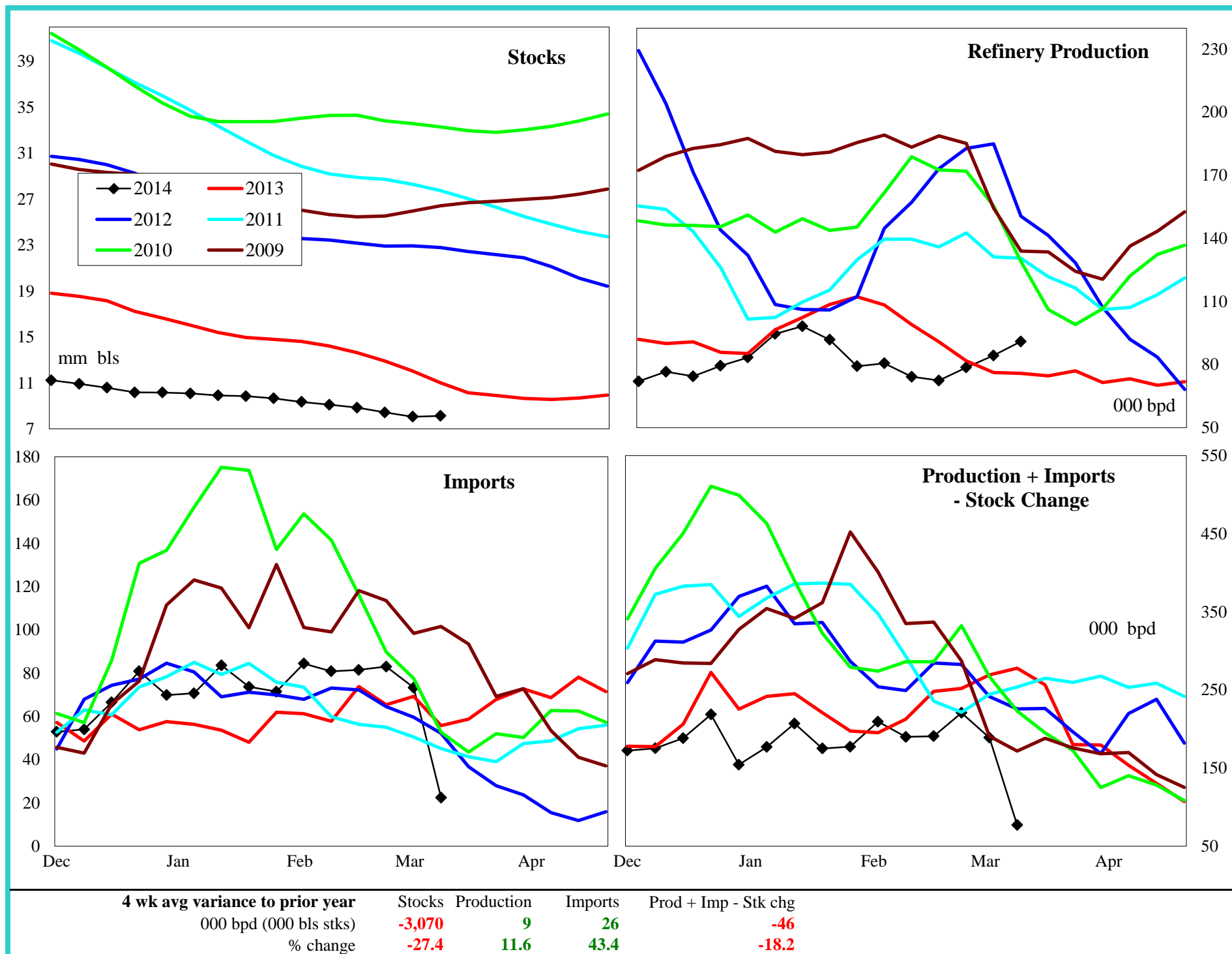
# PADD 1 Low Sulfur Distillate Supply



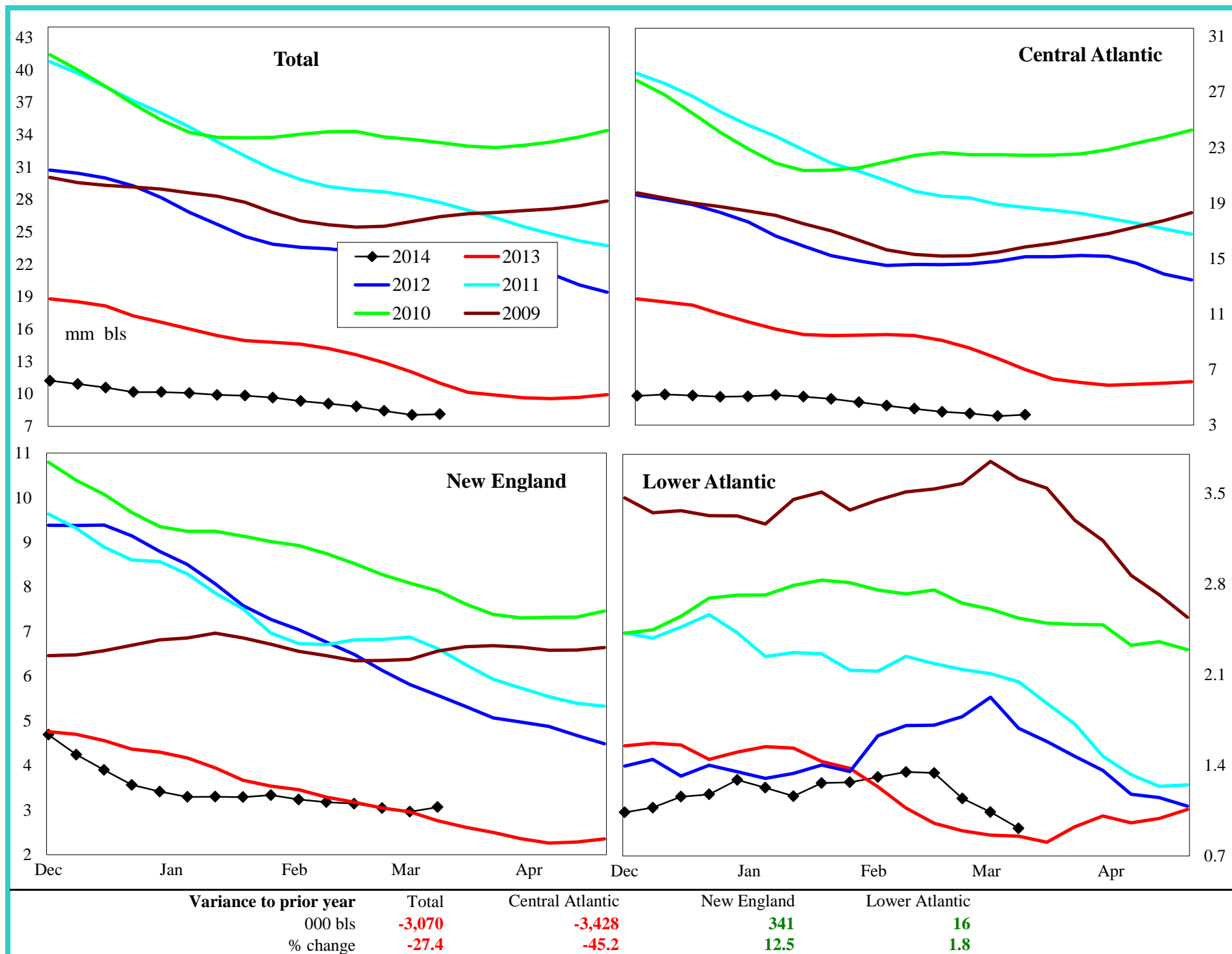
# PADD 1 Low Sulfur Distillate Stocks by Region



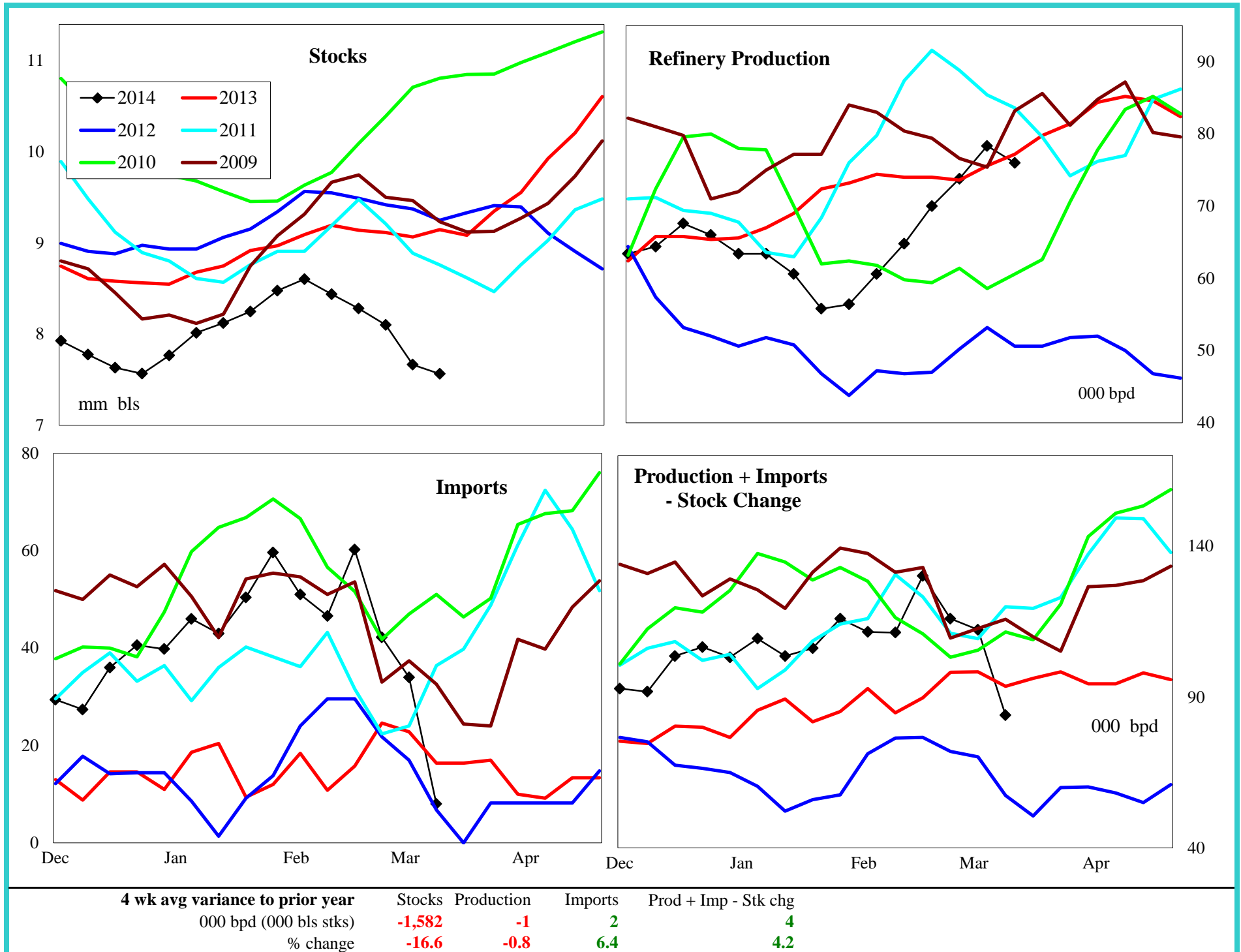
# PADD 1 High Sulfur Distillate Supply



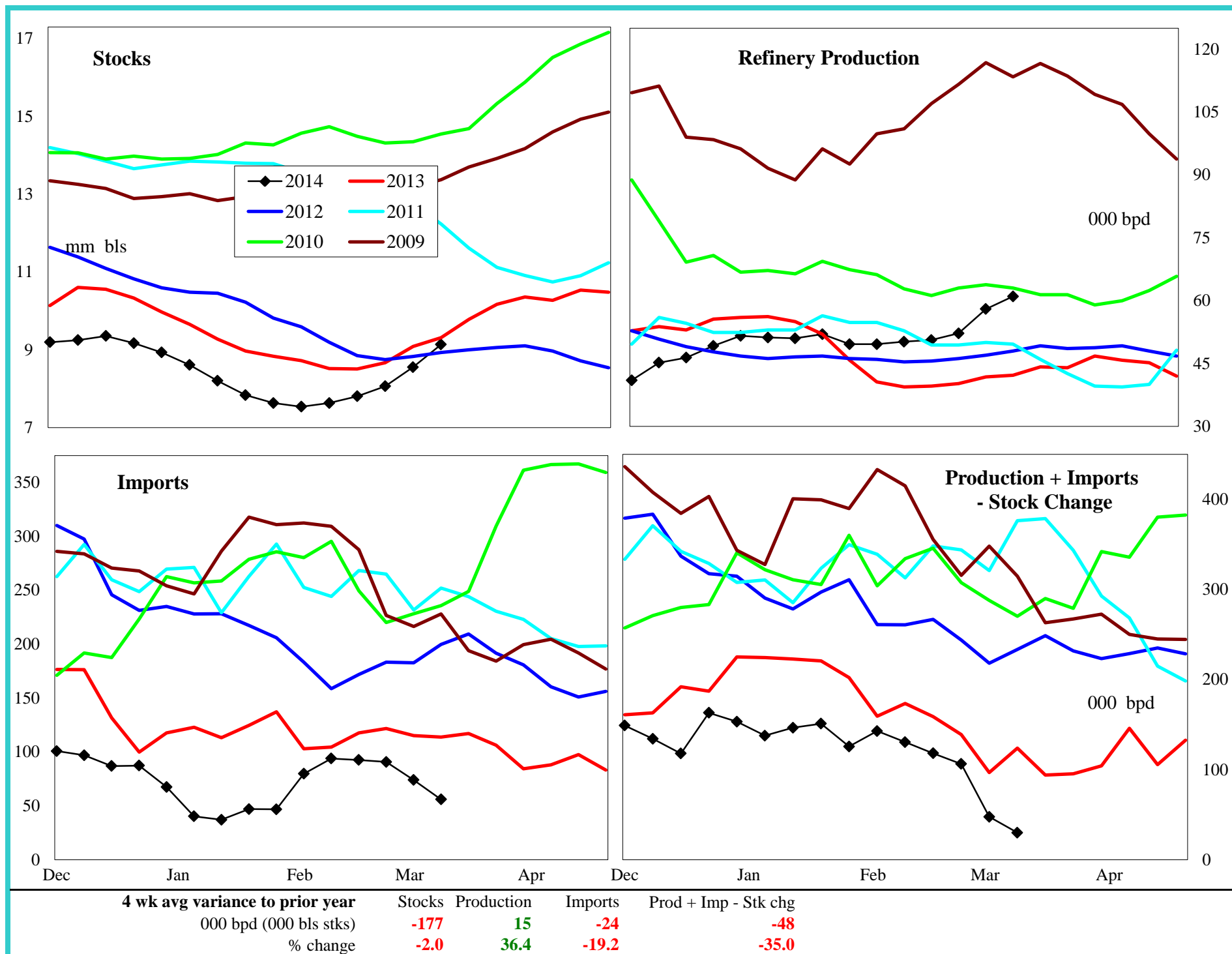
# PADD 1 High Sulfur Distillate Stocks by Region



# PADD 1 Jet Fuel Supply

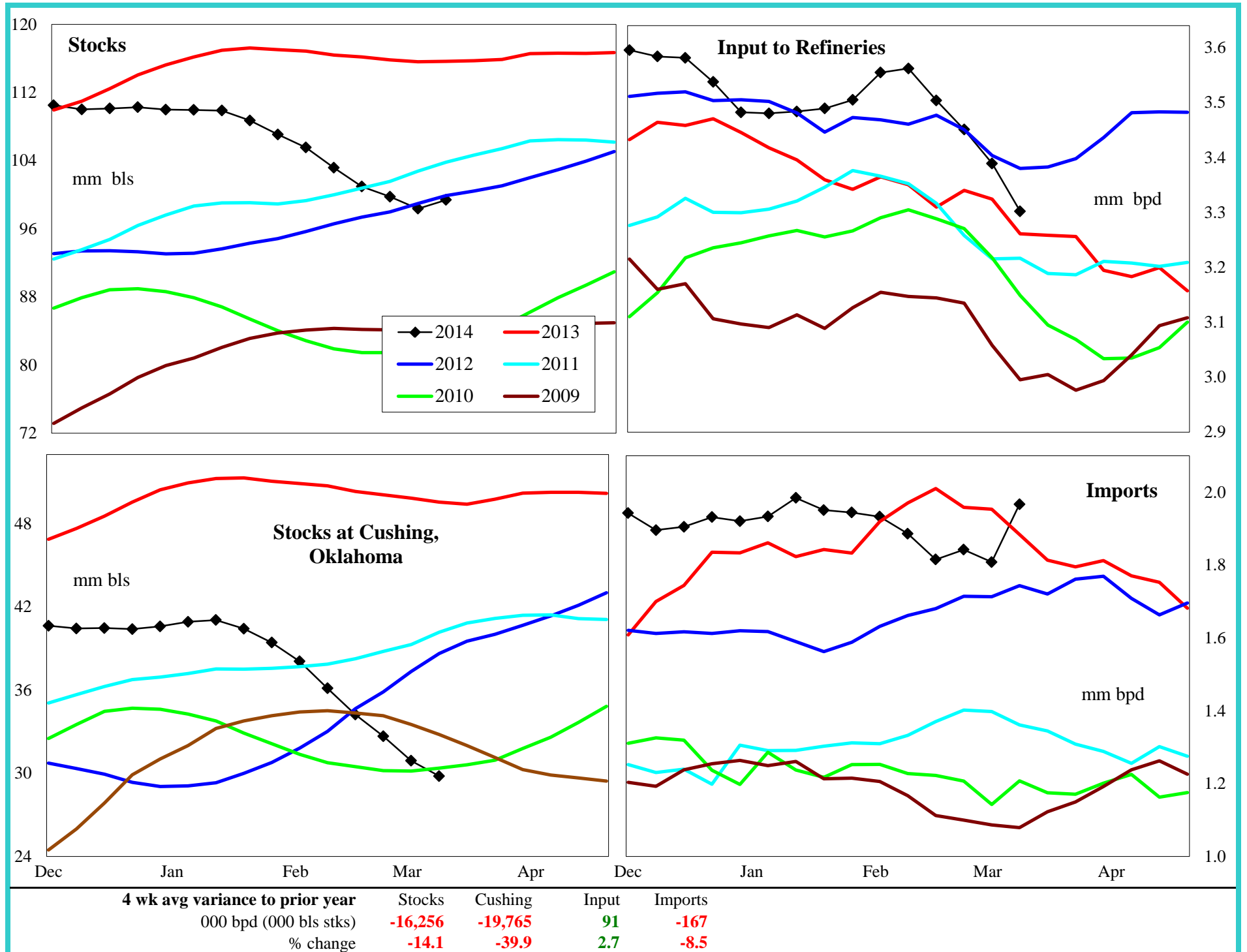


# PADD 1 Residual Fuel Oil Supply

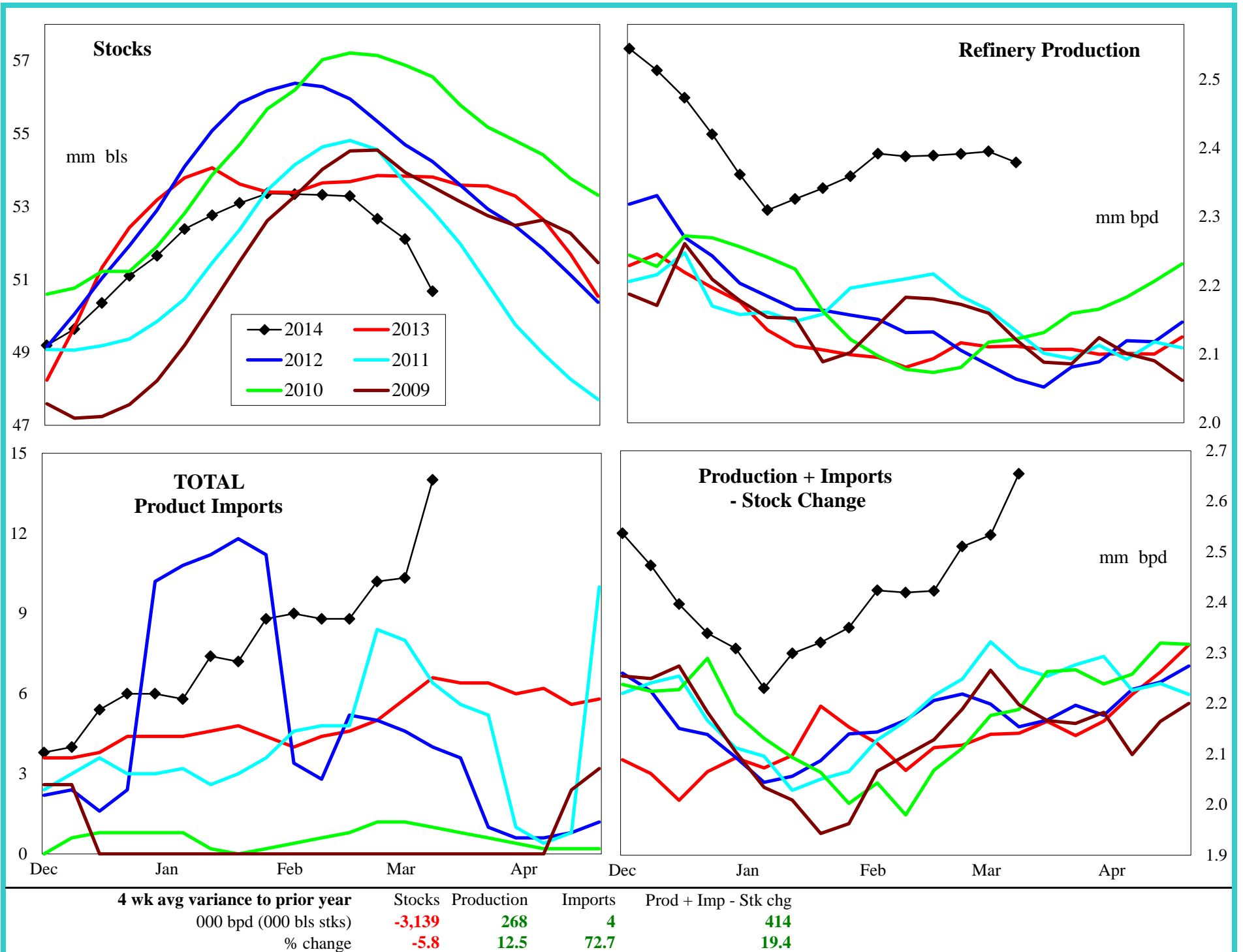




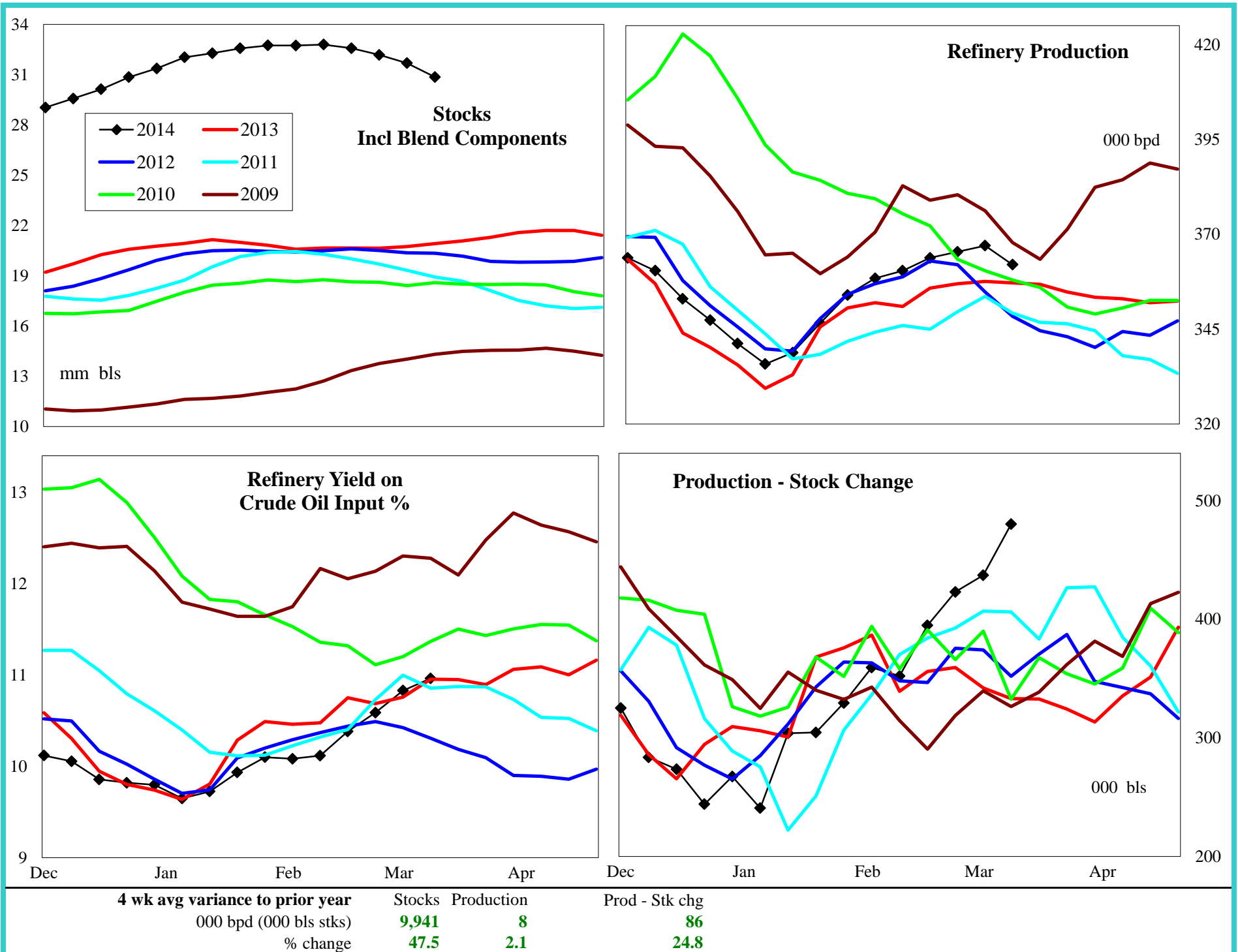
# PADD 2 Crude Oil Supply and Refining



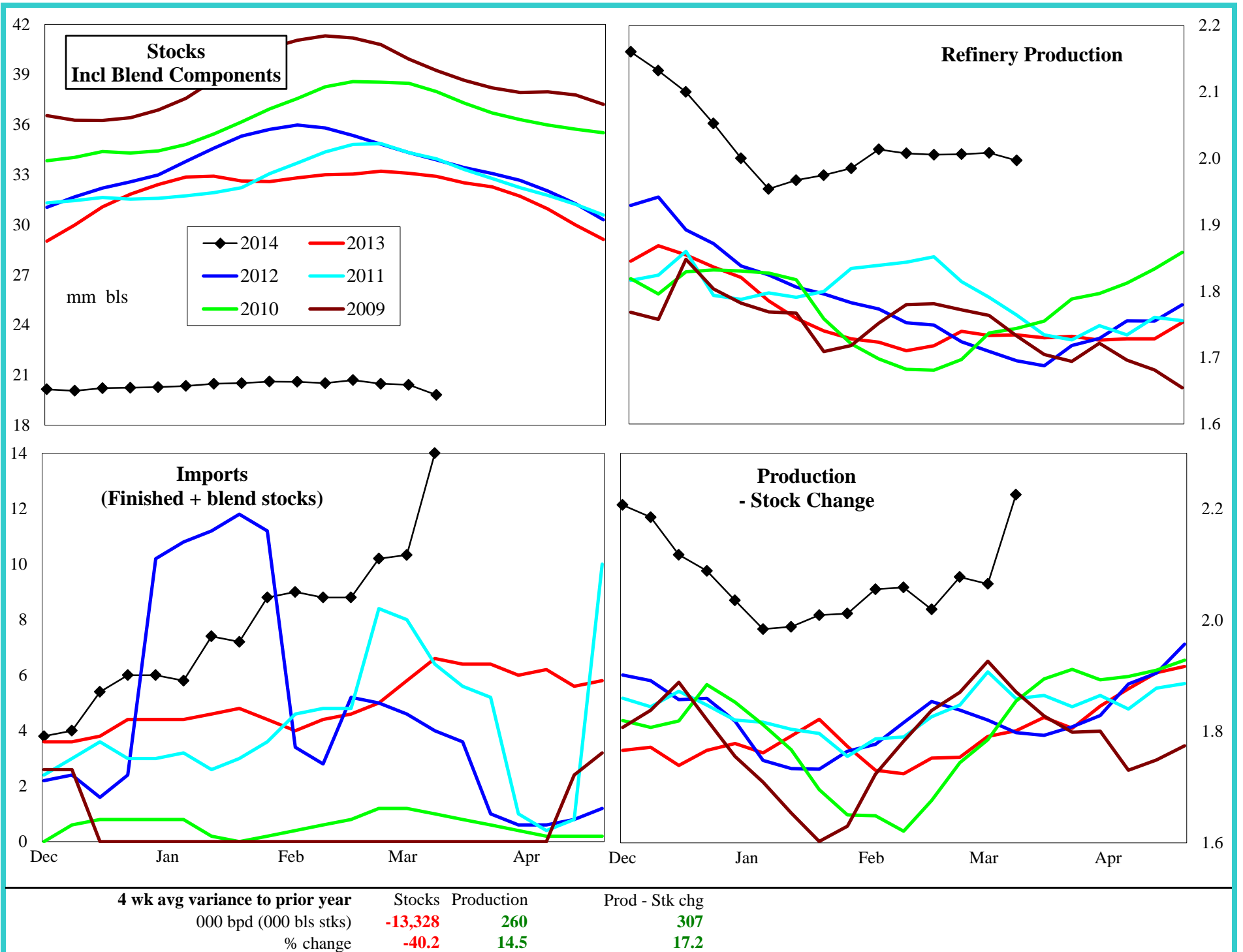
# PADD 2 Gasoline Supply



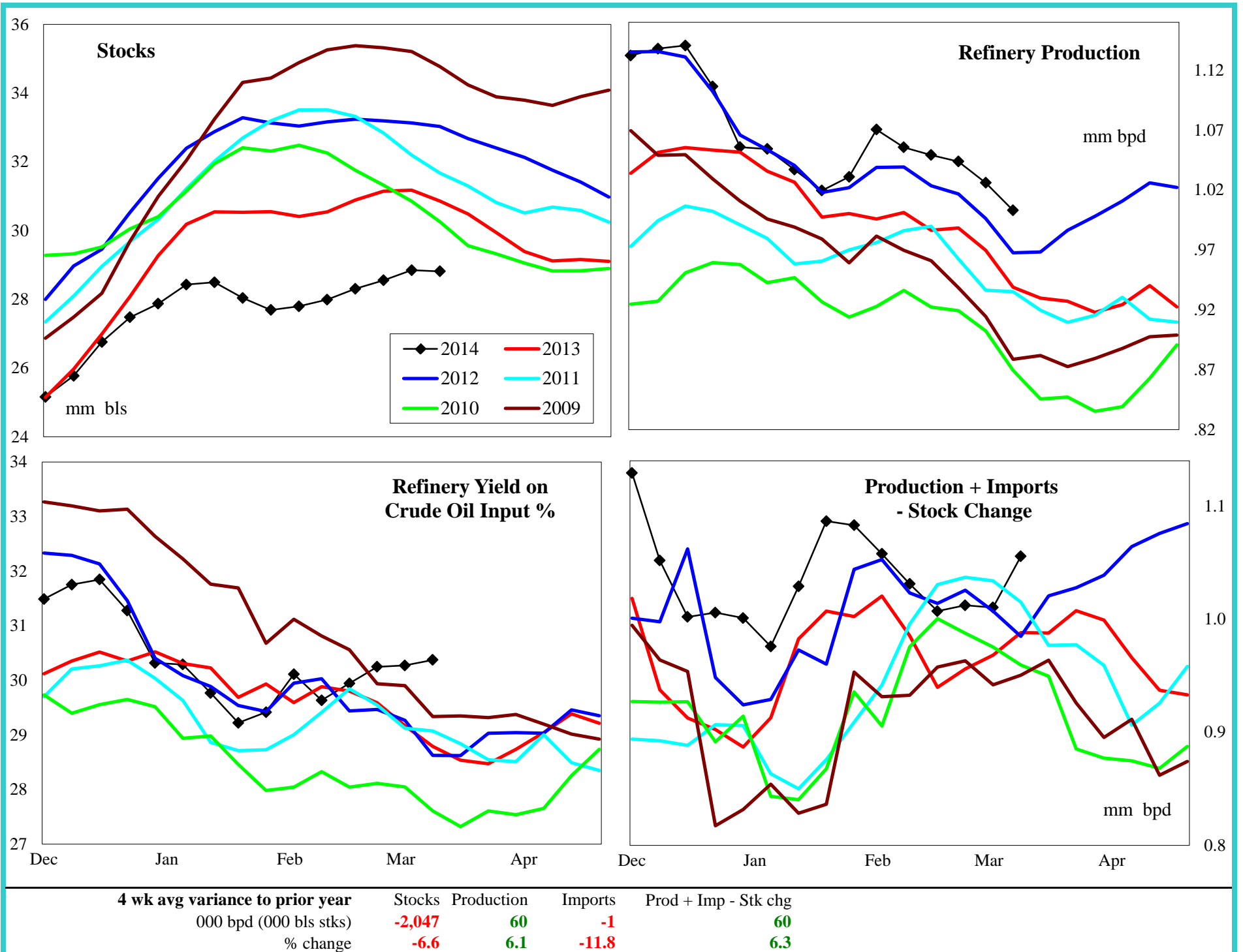
# PADD 2 Reformulated Gasoline Supply



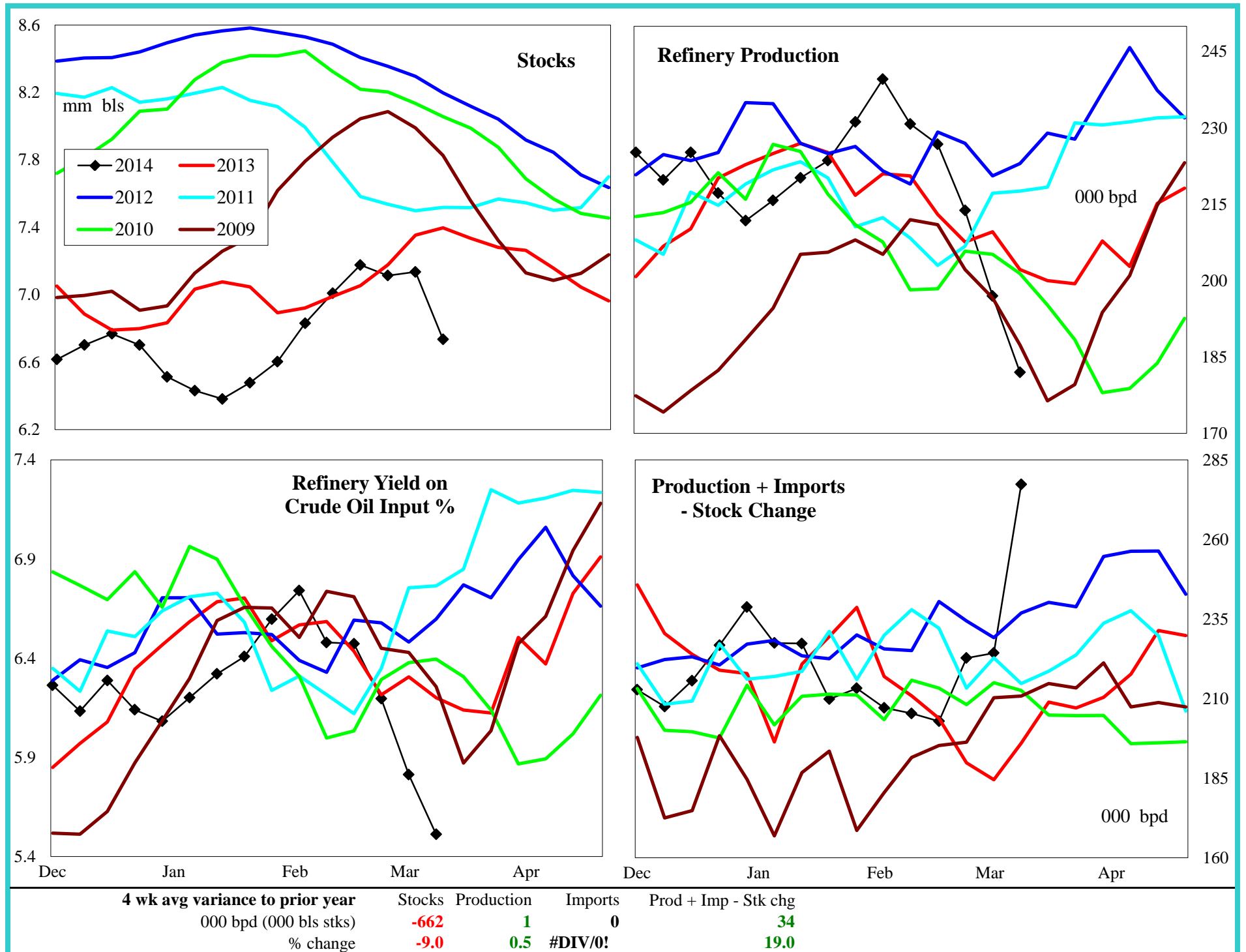
# PADD 2 Conventional Gasoline Supply



# PADD 2 Distillate Supply

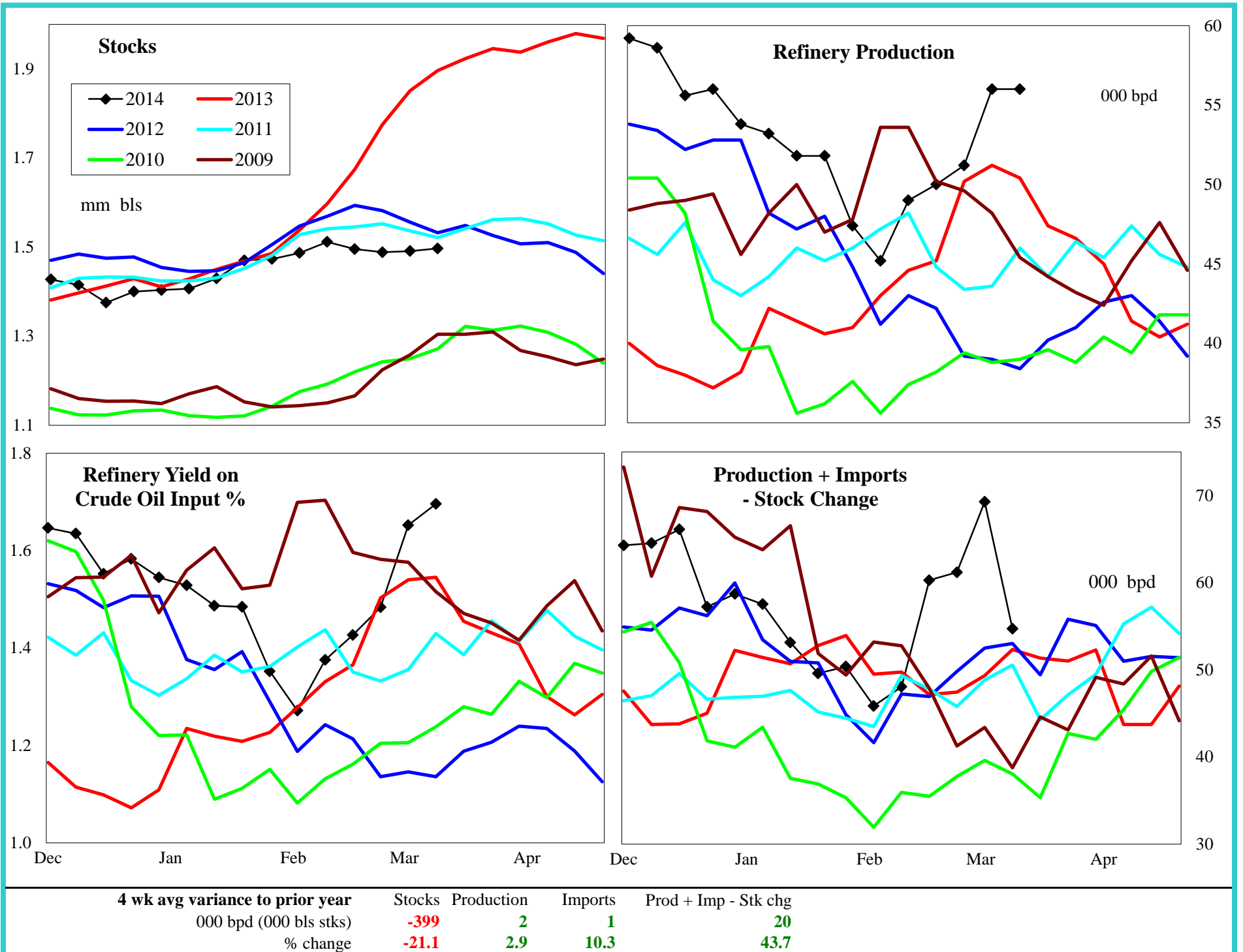


## PADD 2 Jet Fuel Supply

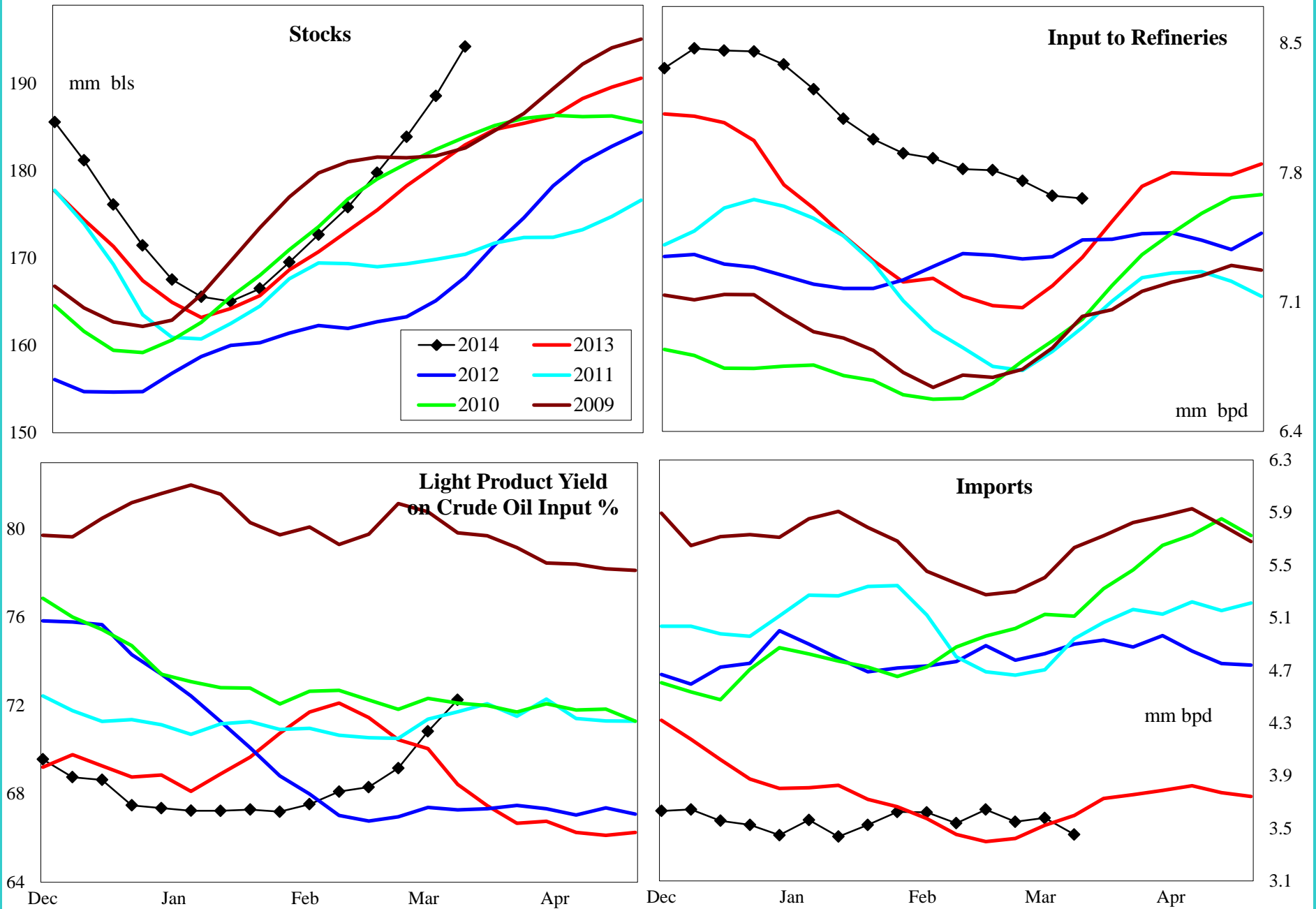




# PADD 2 Residual Fuel Oil Supply



# PADD 3 Crude Oil Supply and Refining



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

11,262

6.2

Input

656

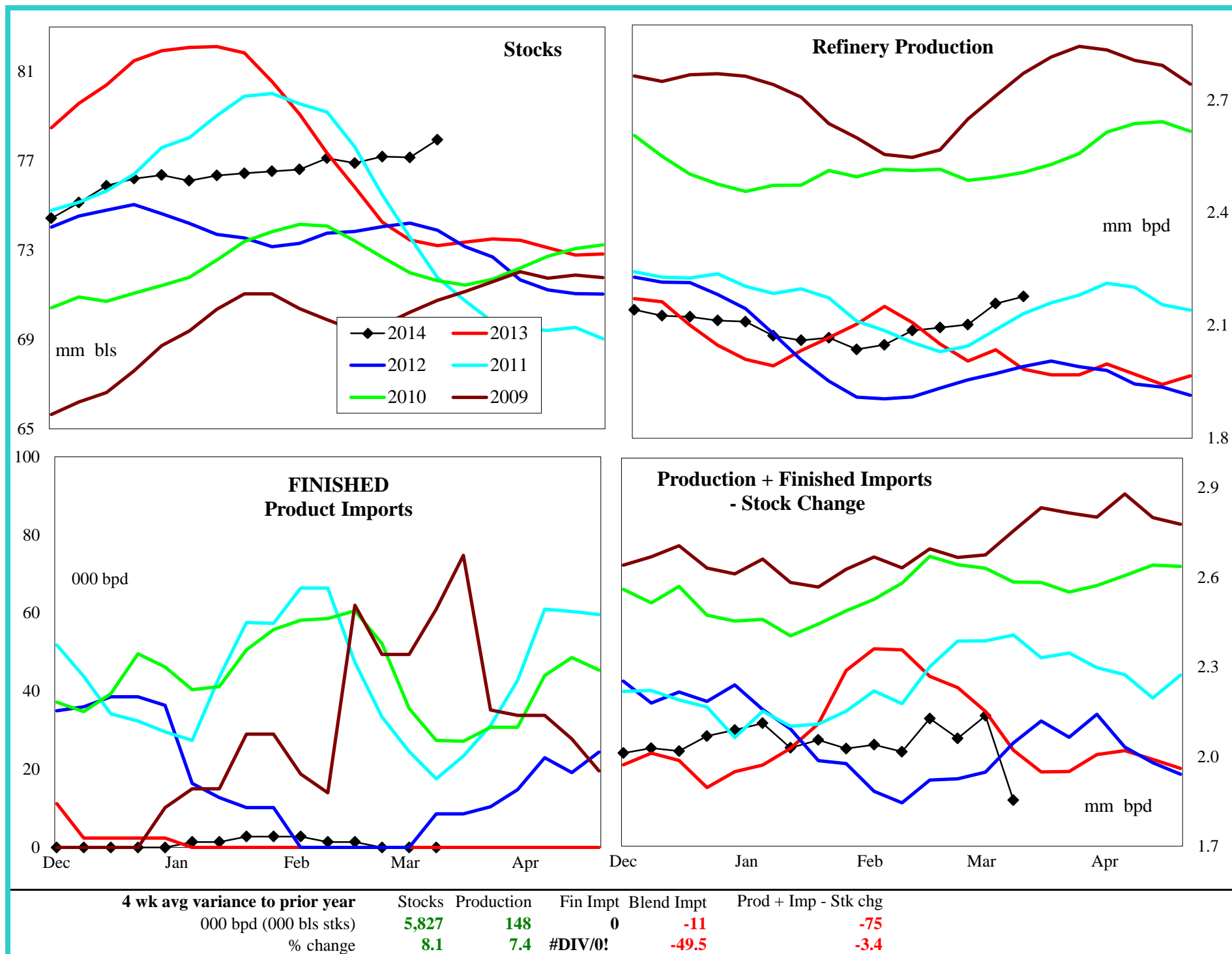
9.3

Imports

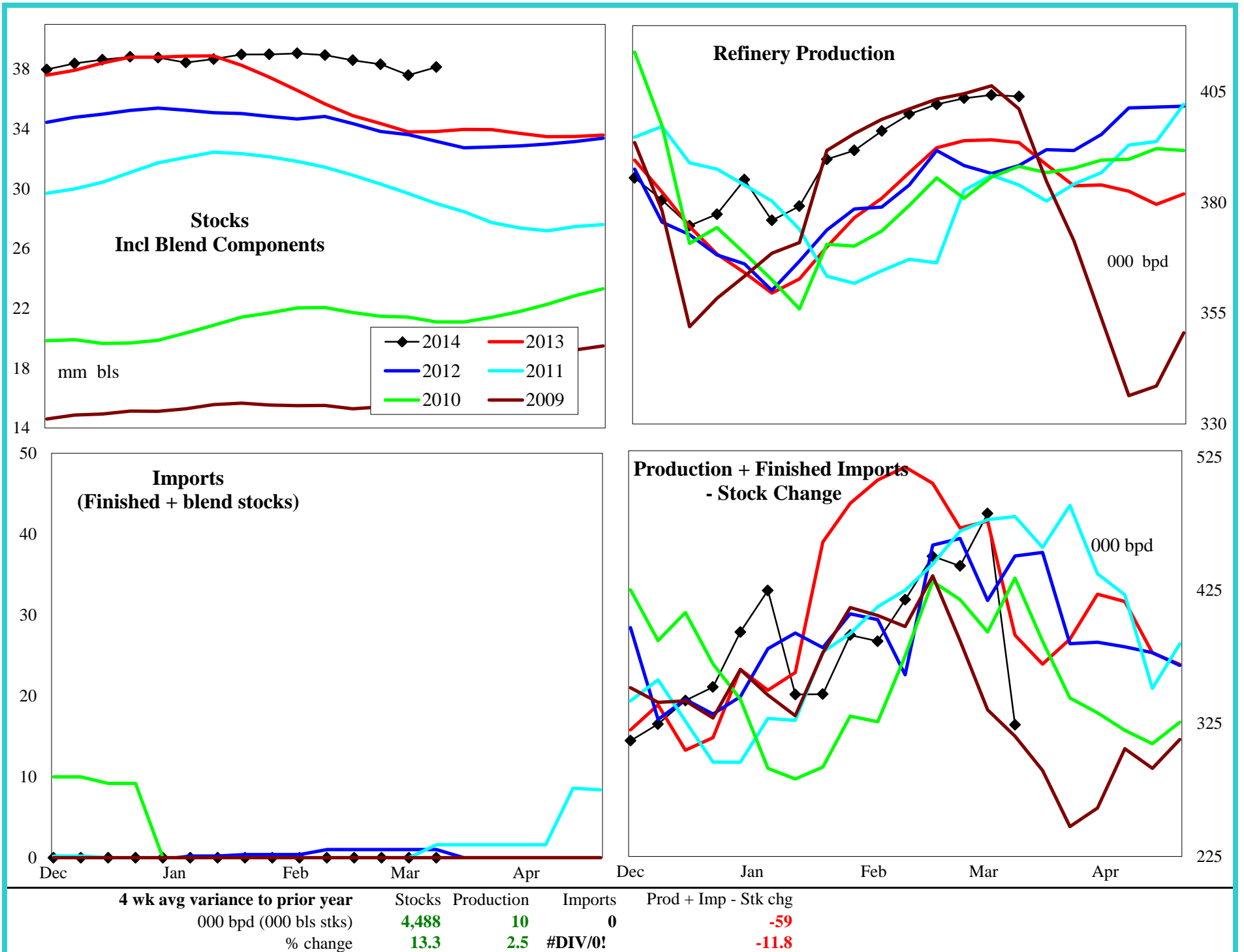
145

4.3

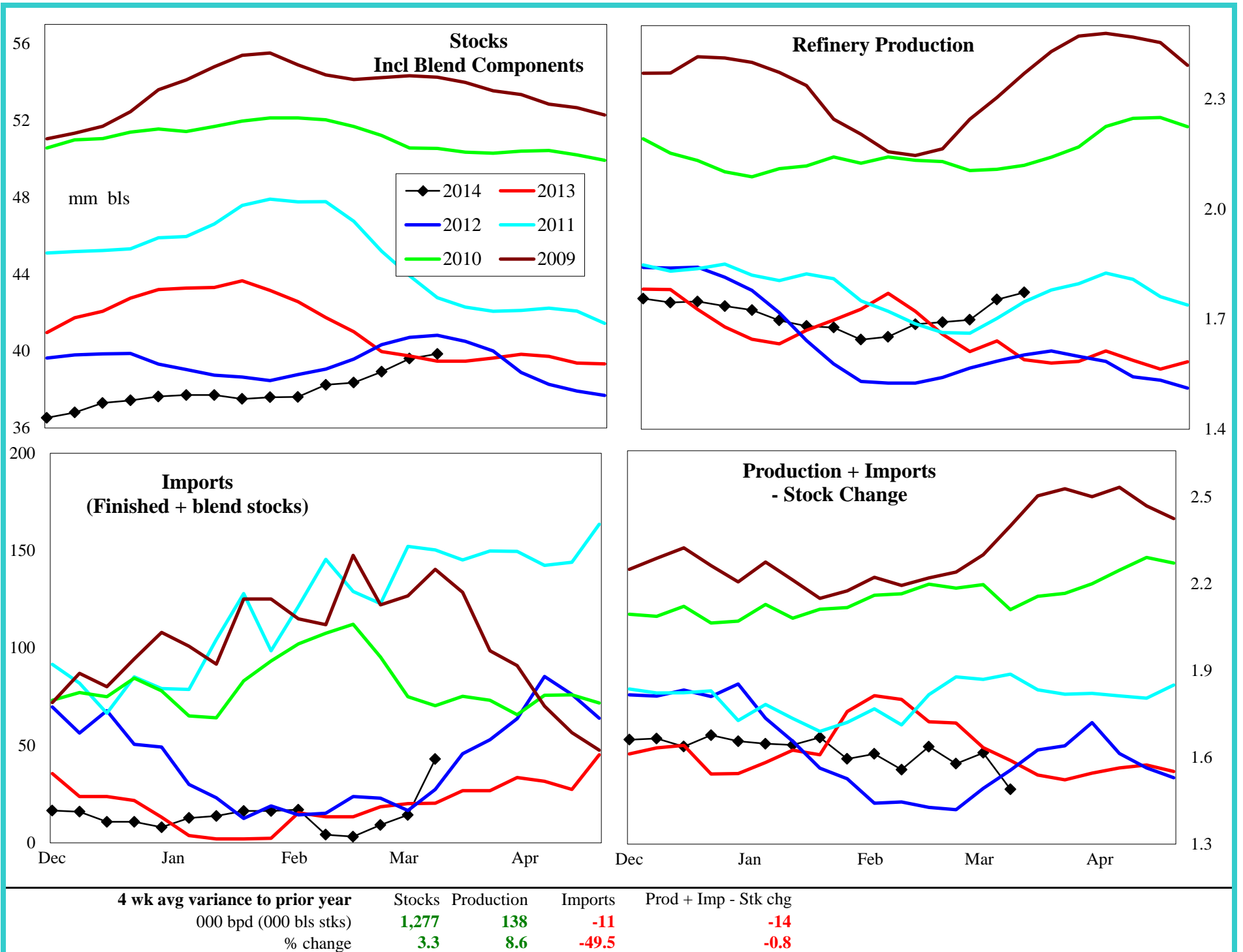
## PADD 3 Gasoline Supply



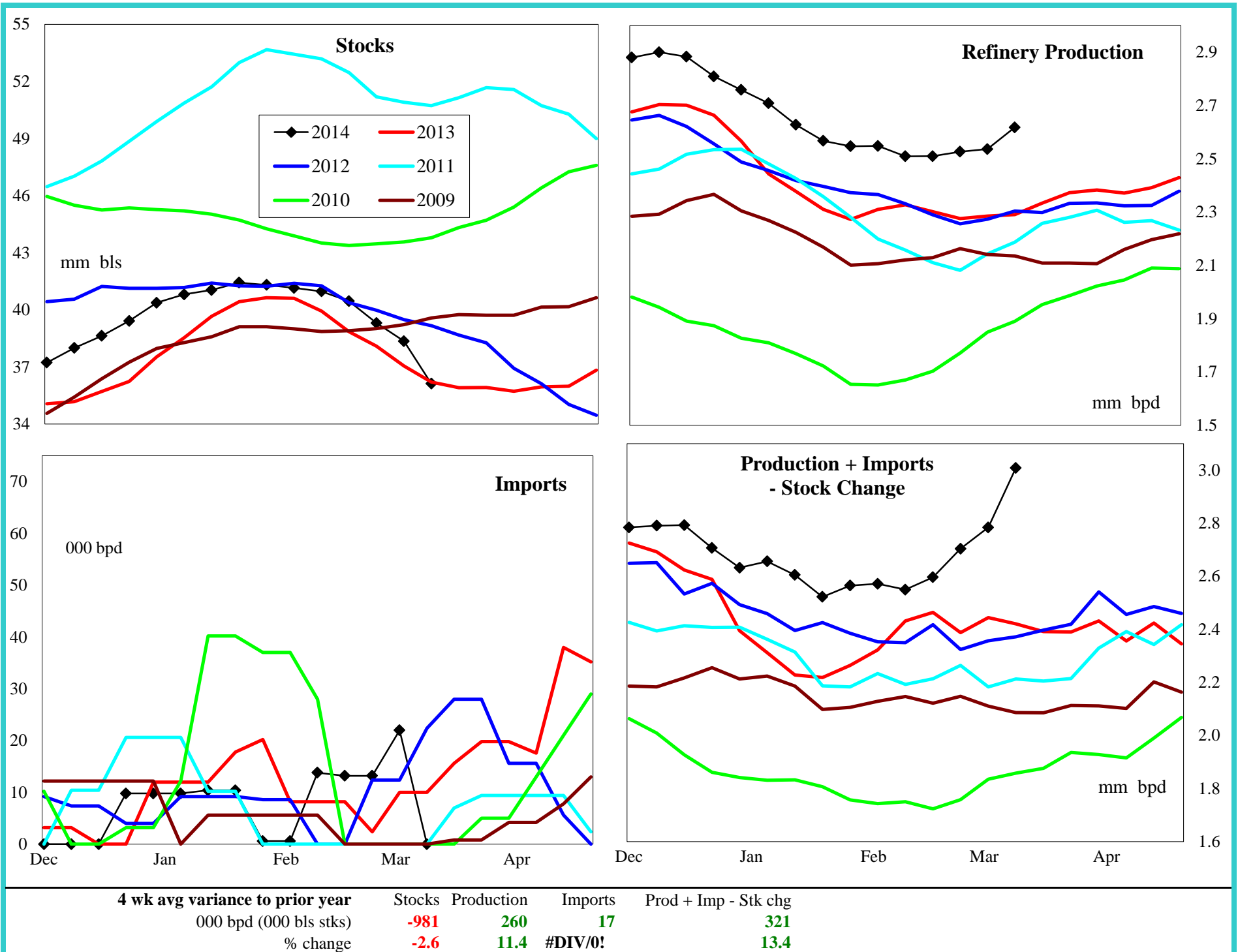
# PADD 3 Reformulated Gasoline Supply



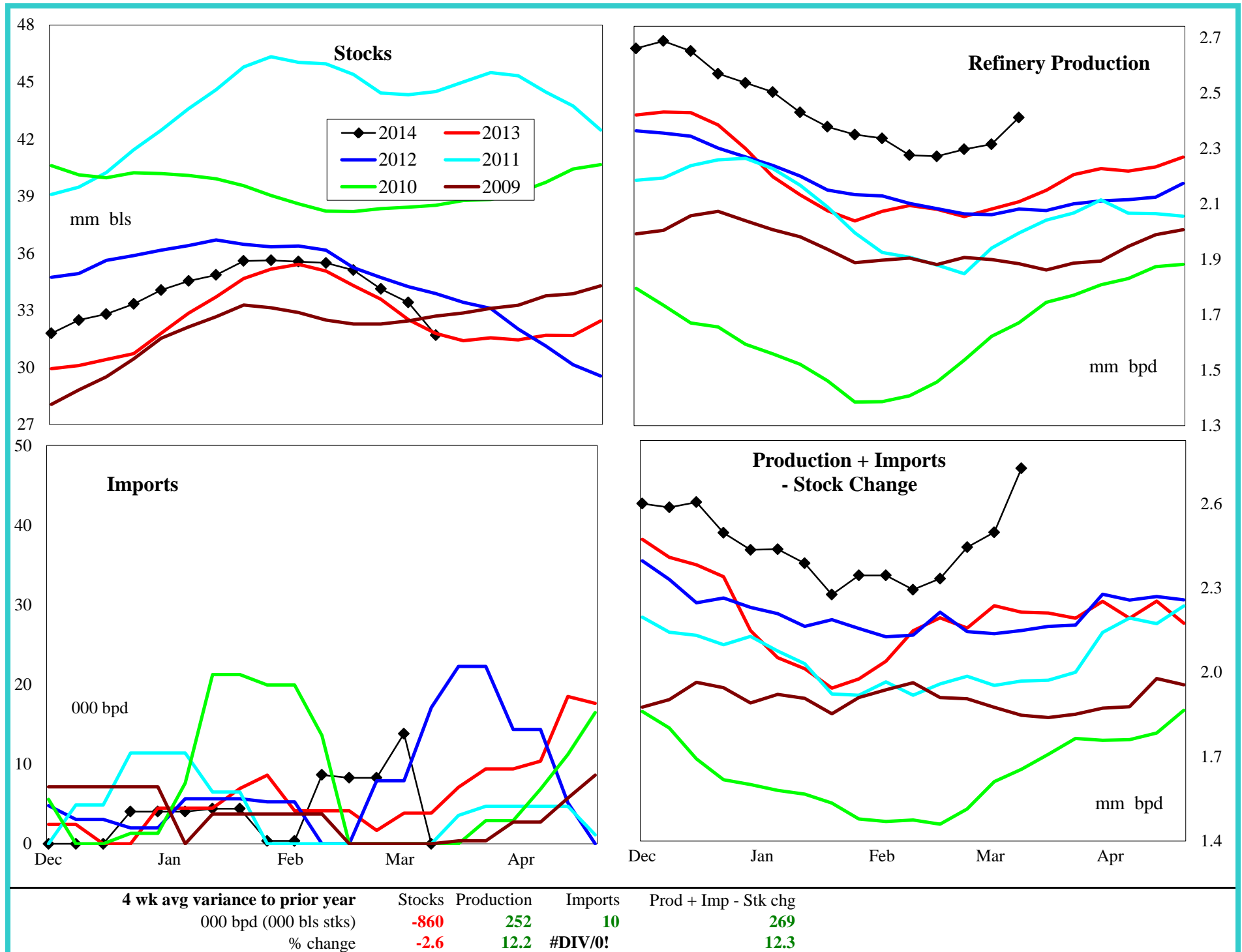
# PADD 3 Conventional Gasoline Supply



# PADD 3 Distillate Supply

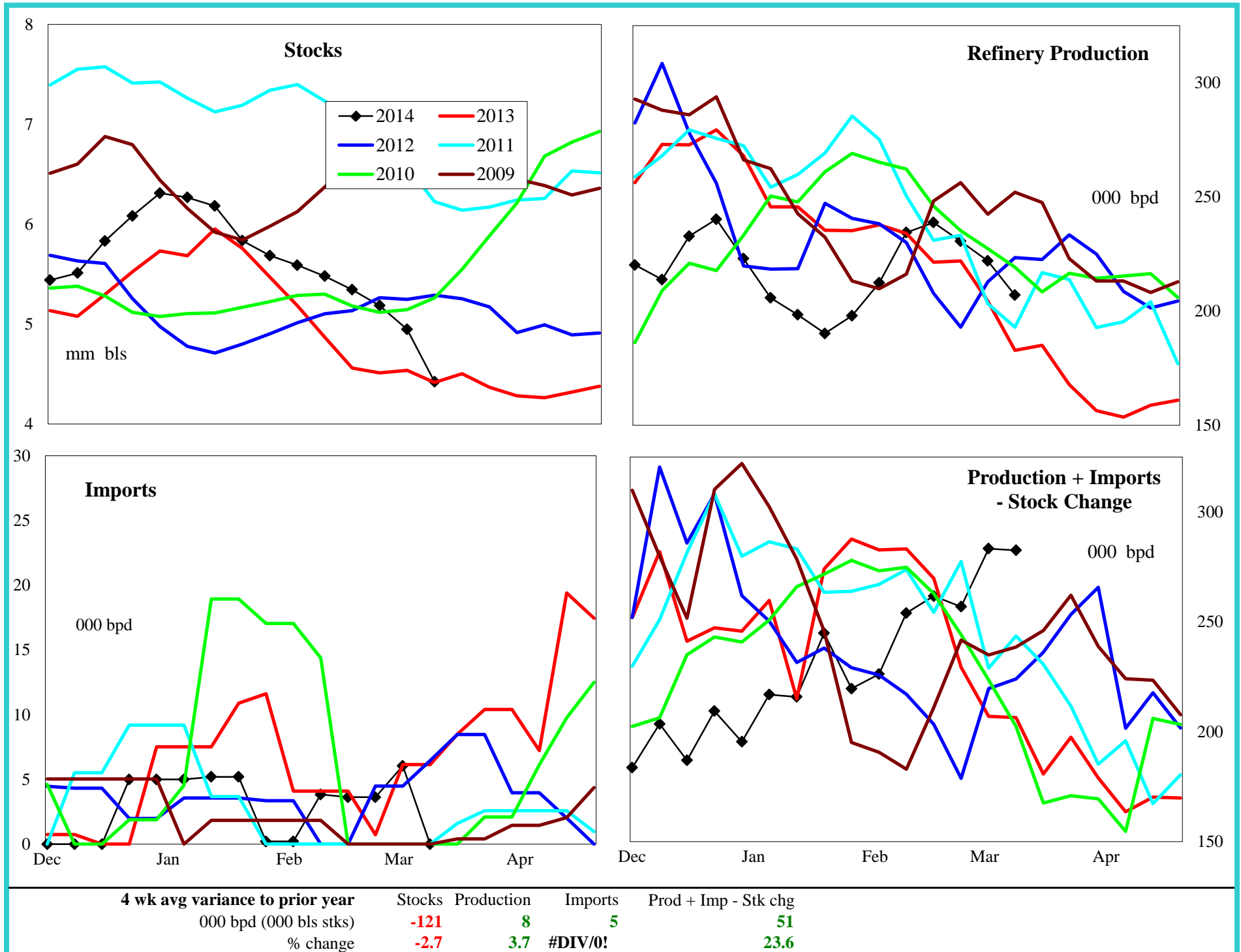


# PADD 3 Low Sulfur Distillate Supply

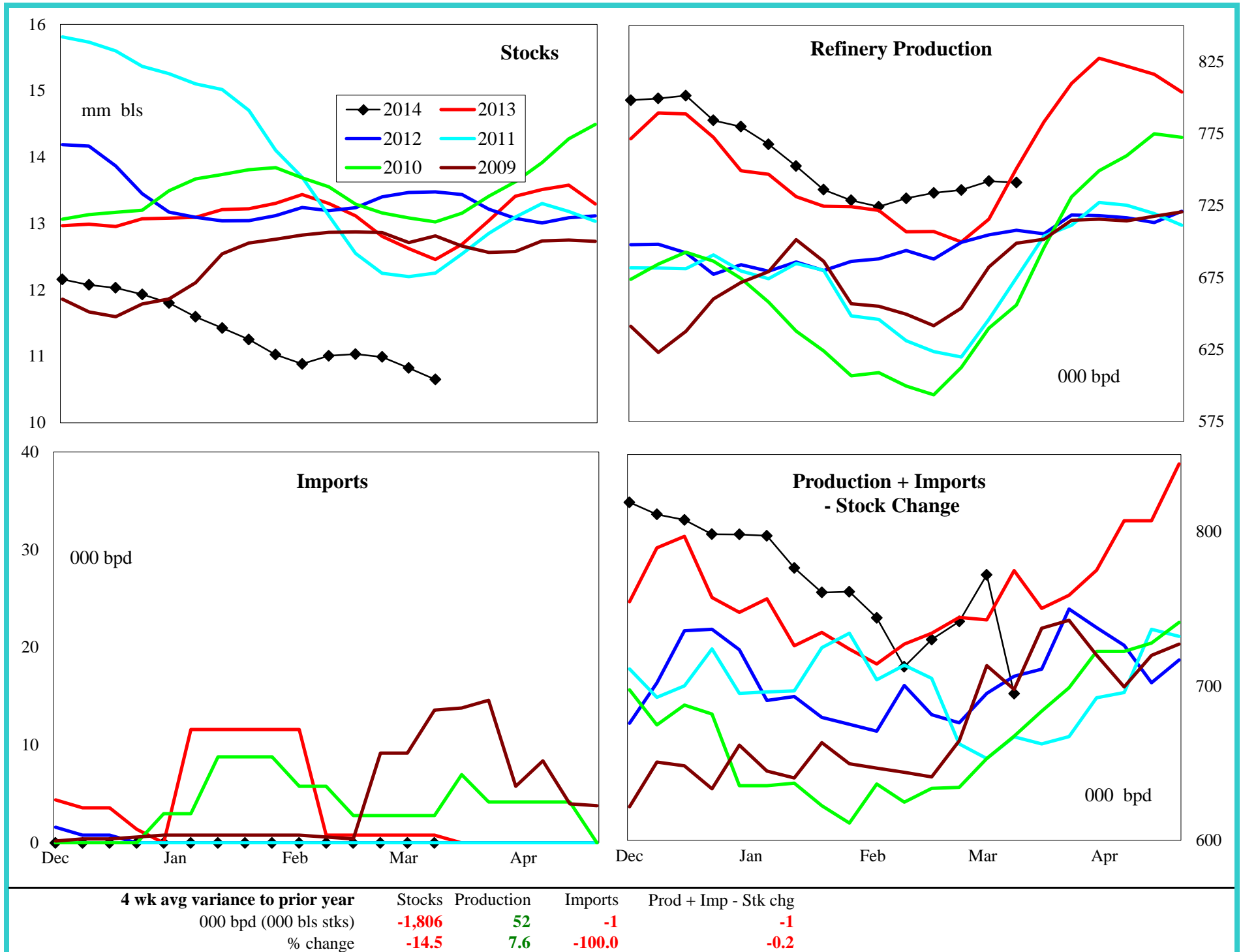




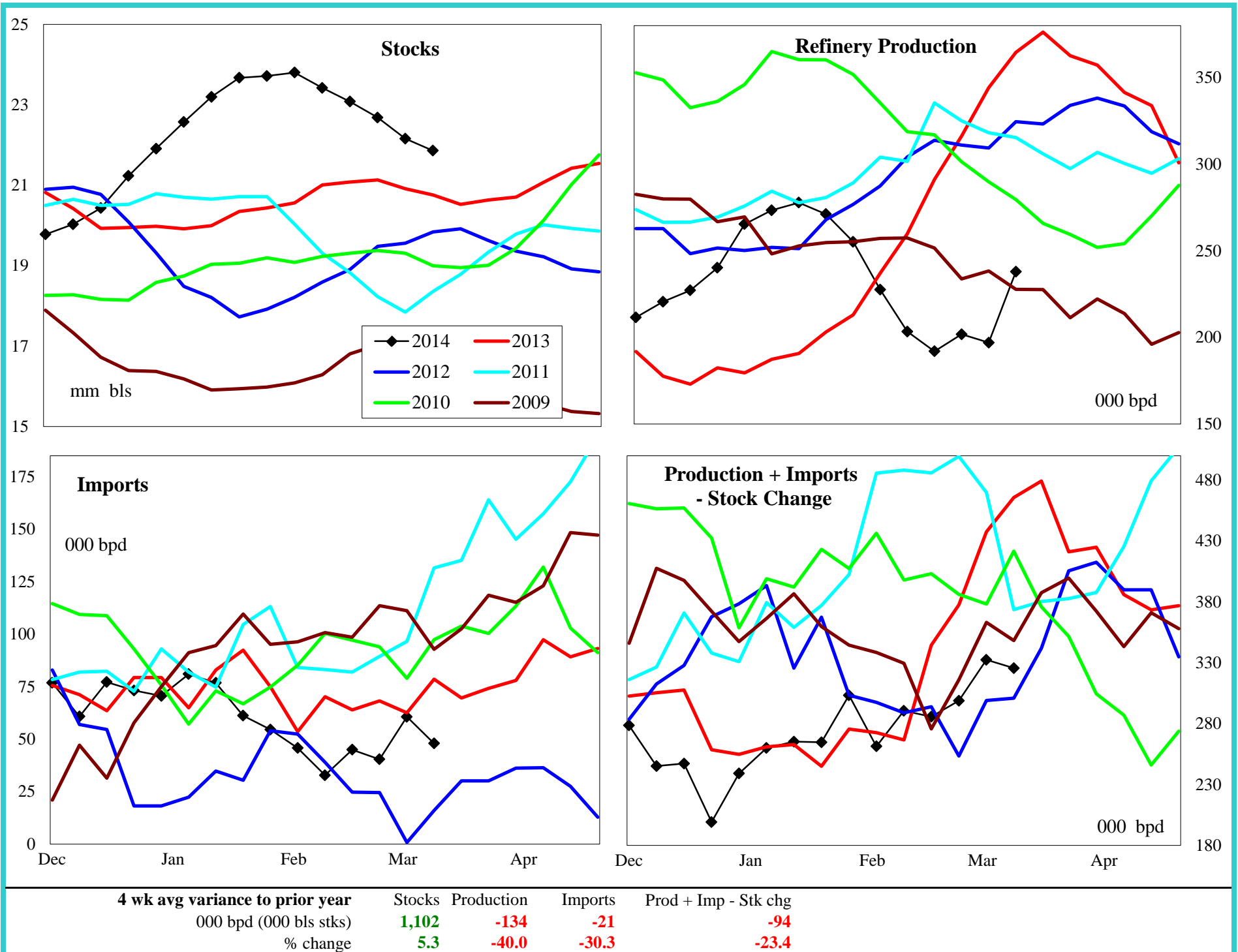
# PADD 3 High Sulfur Distillate Supply



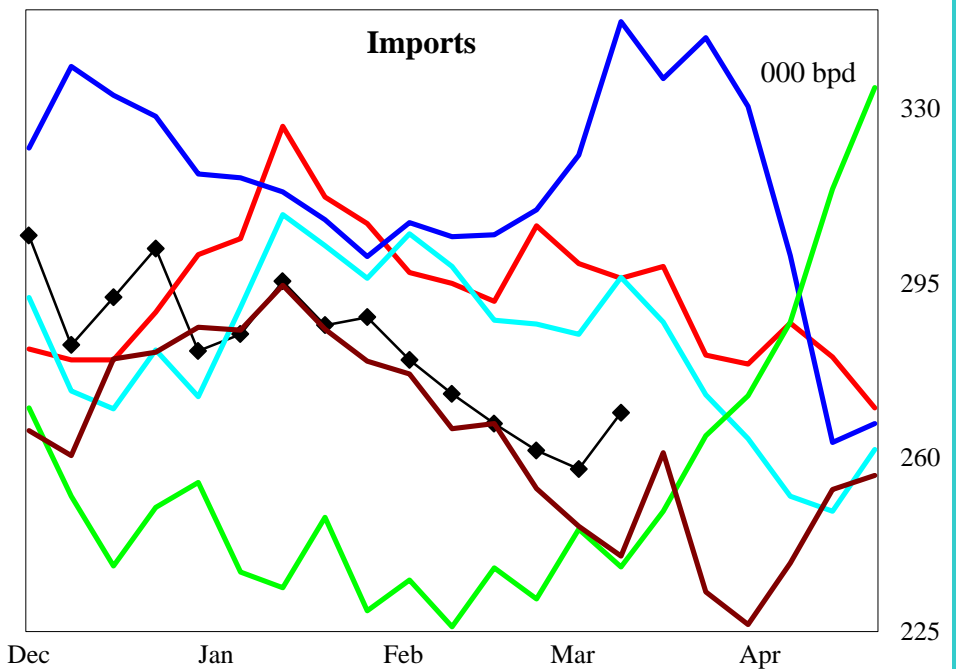
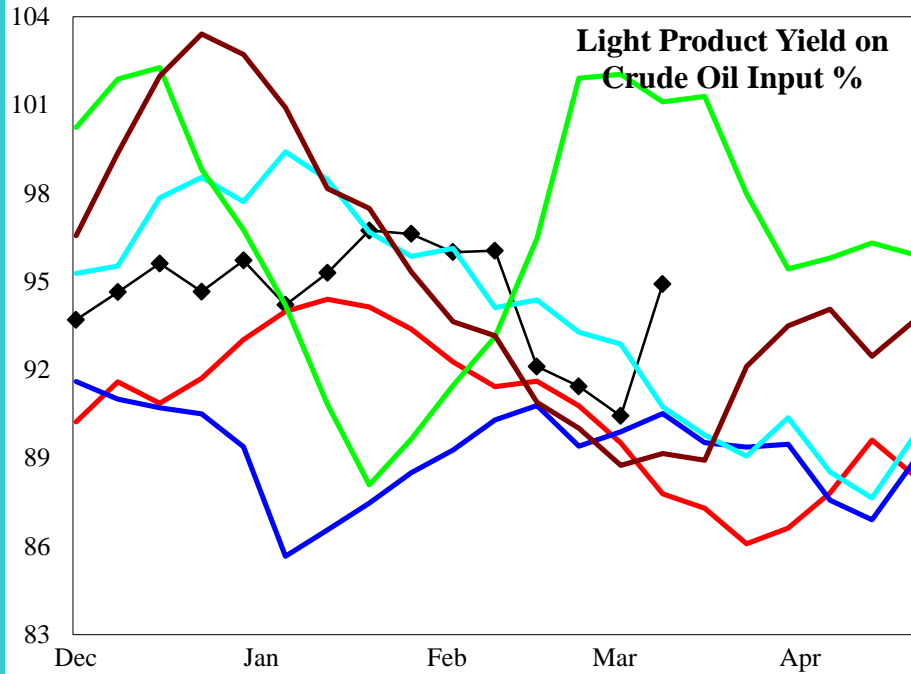
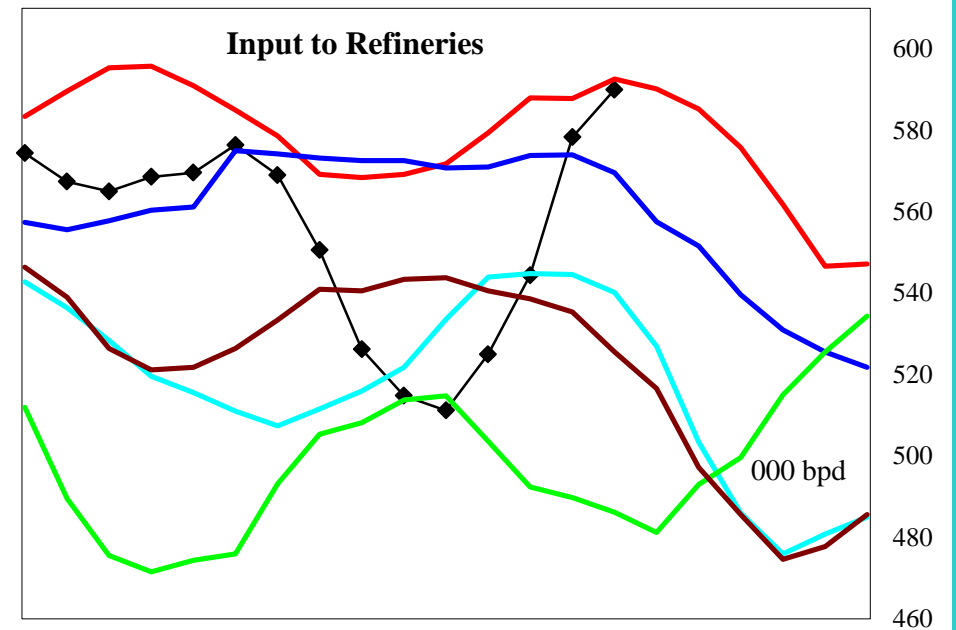
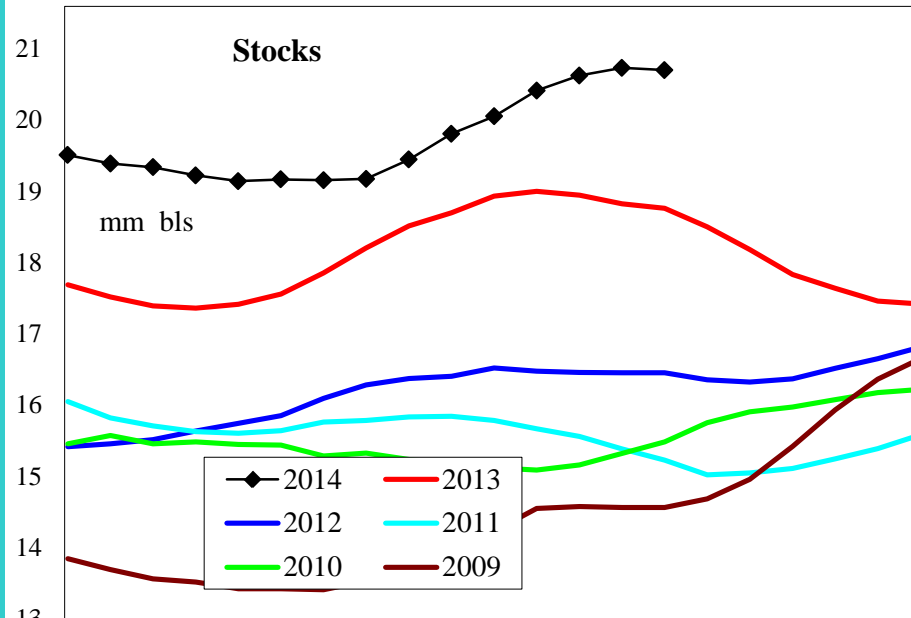
# PADD 3 Jet Fuel Supply



# PADD 3 Residual Fuel Oil Supply



# PADD 4 Crude Oil Supply and Refining



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

**1,942**

**10.1**

Input

**-23**

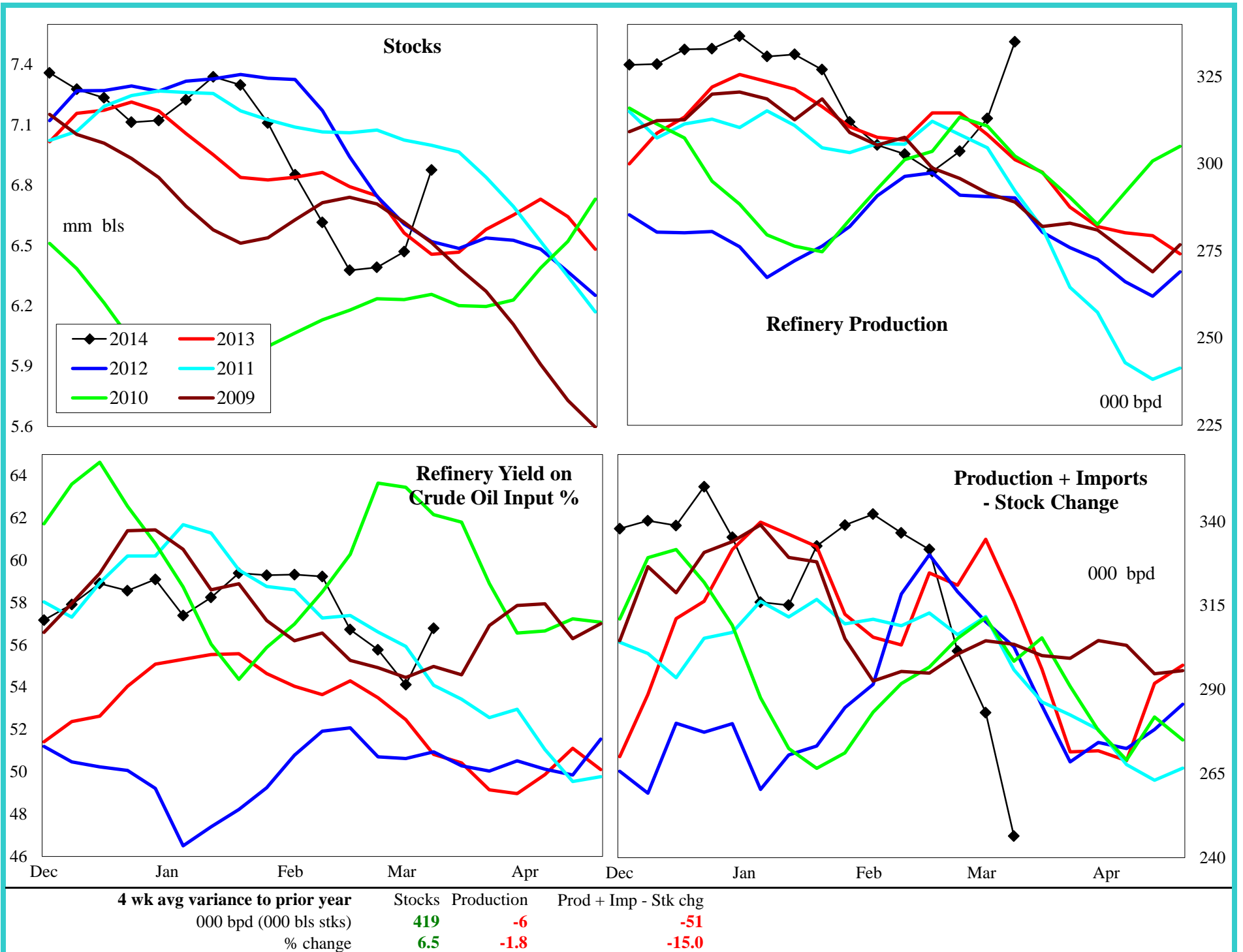
**-4.0**

Imports

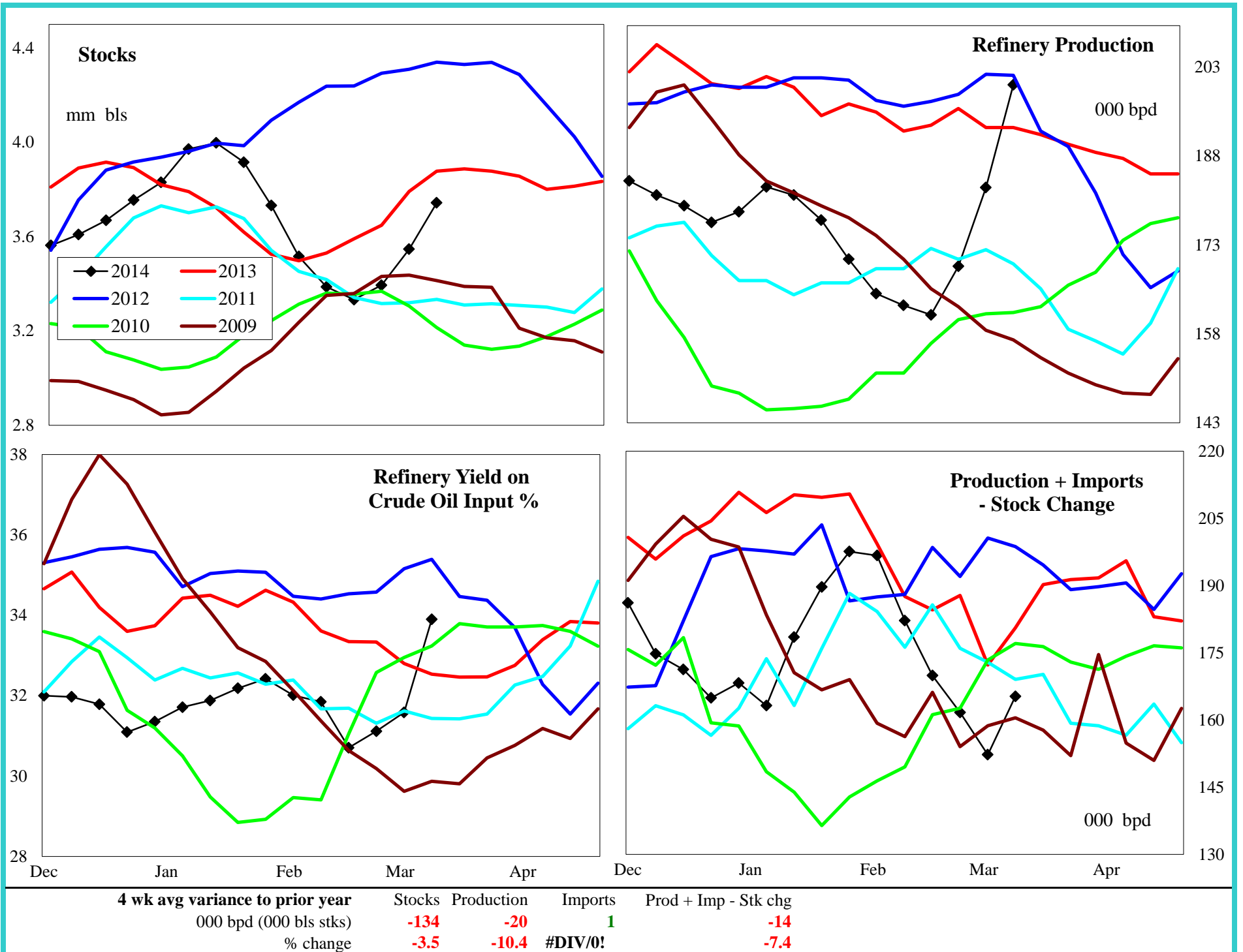
**-59**

**-18.7**

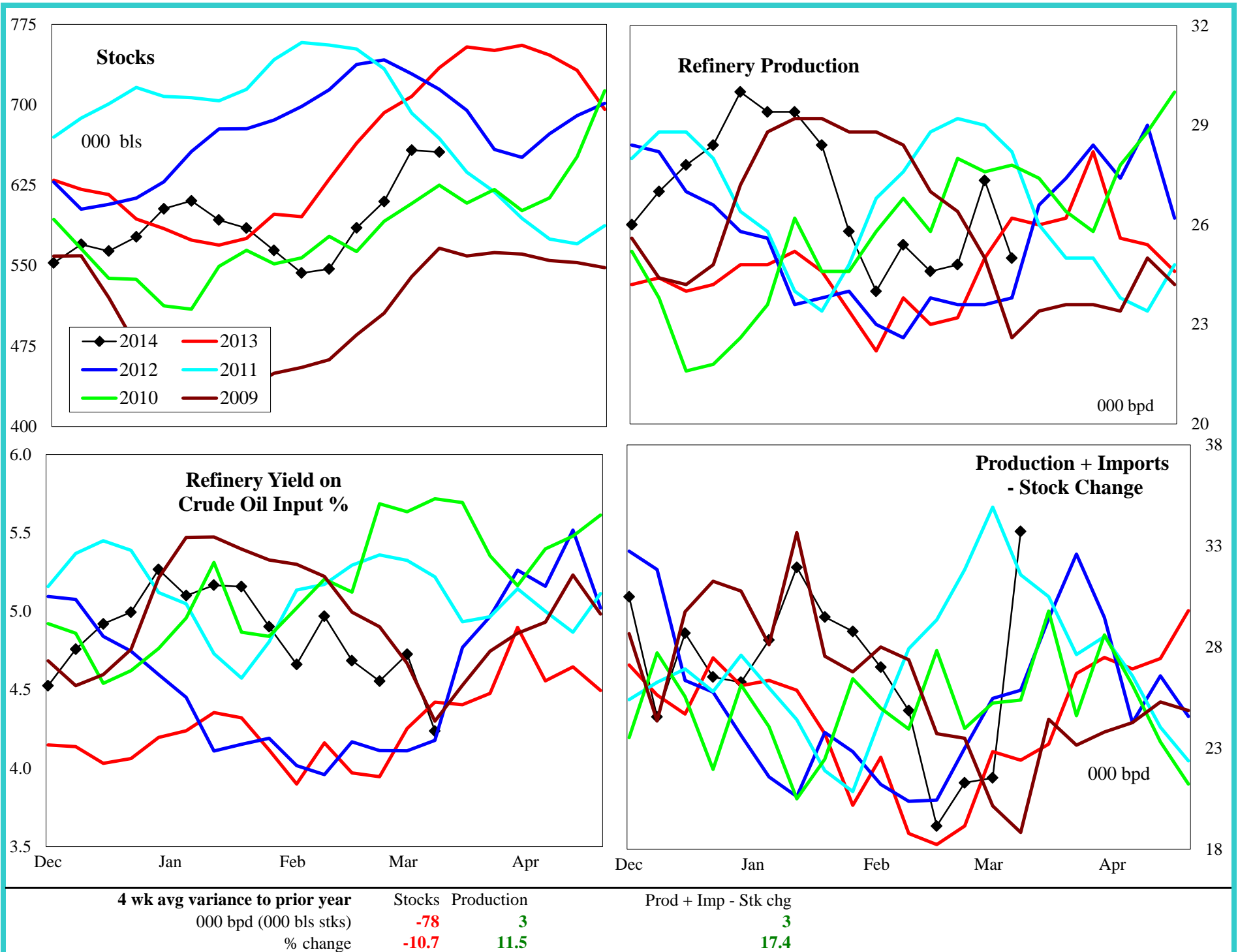
# PADD 4 Gasoline Supply



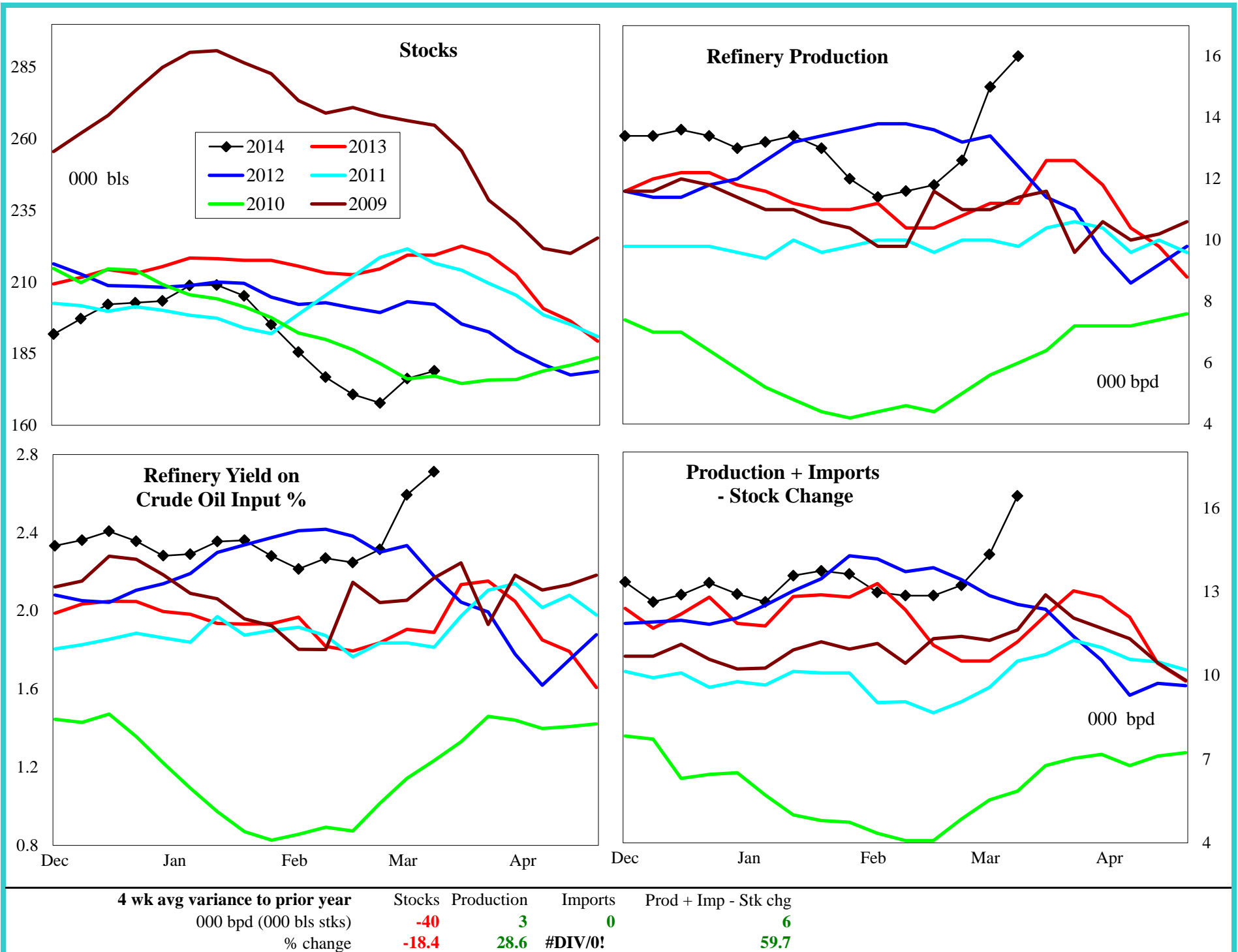
# PADD 4 Distillate Supply



# PADD 4 Jet Fuel Supply

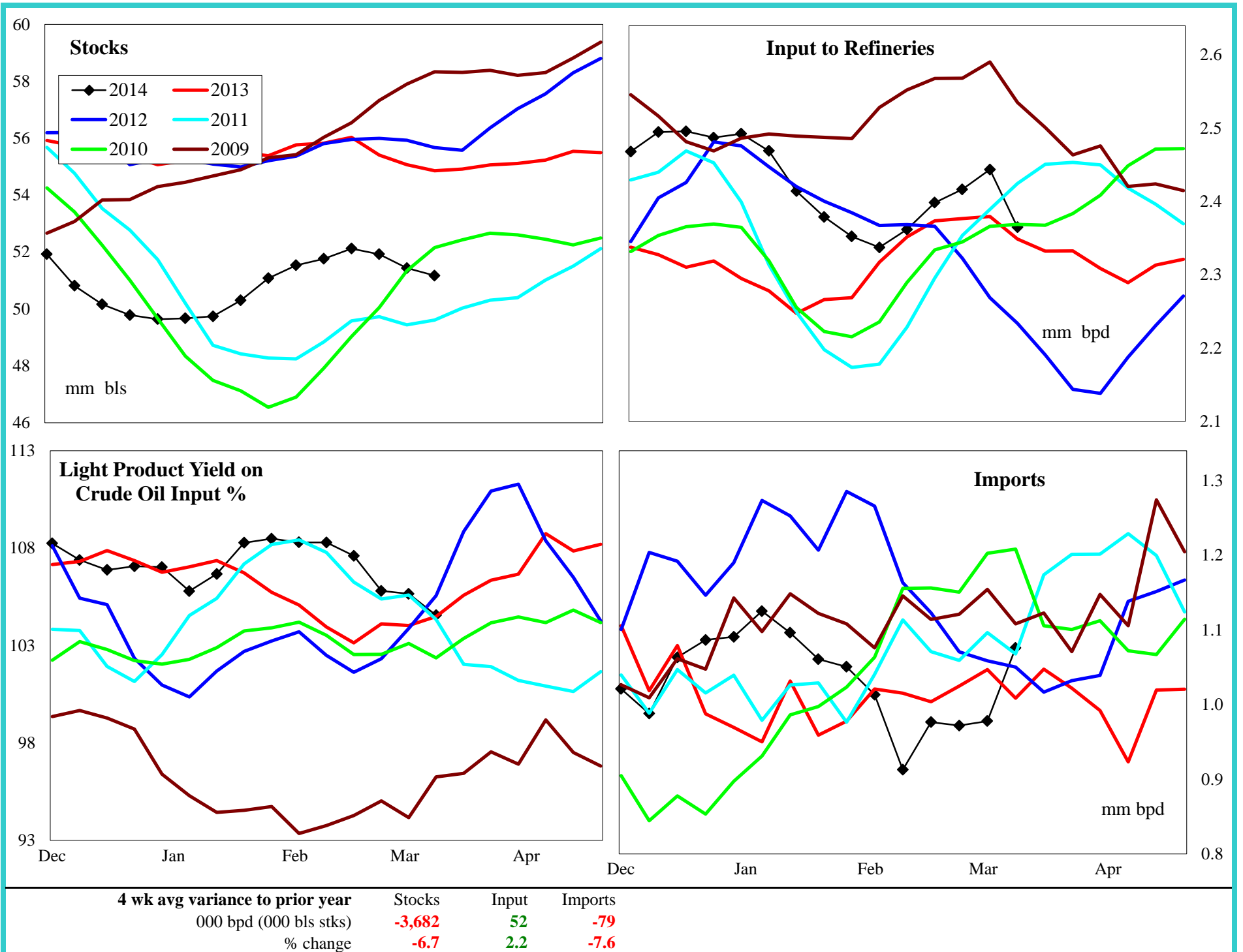


# PADD 4 Residual Fuel Oil Supply

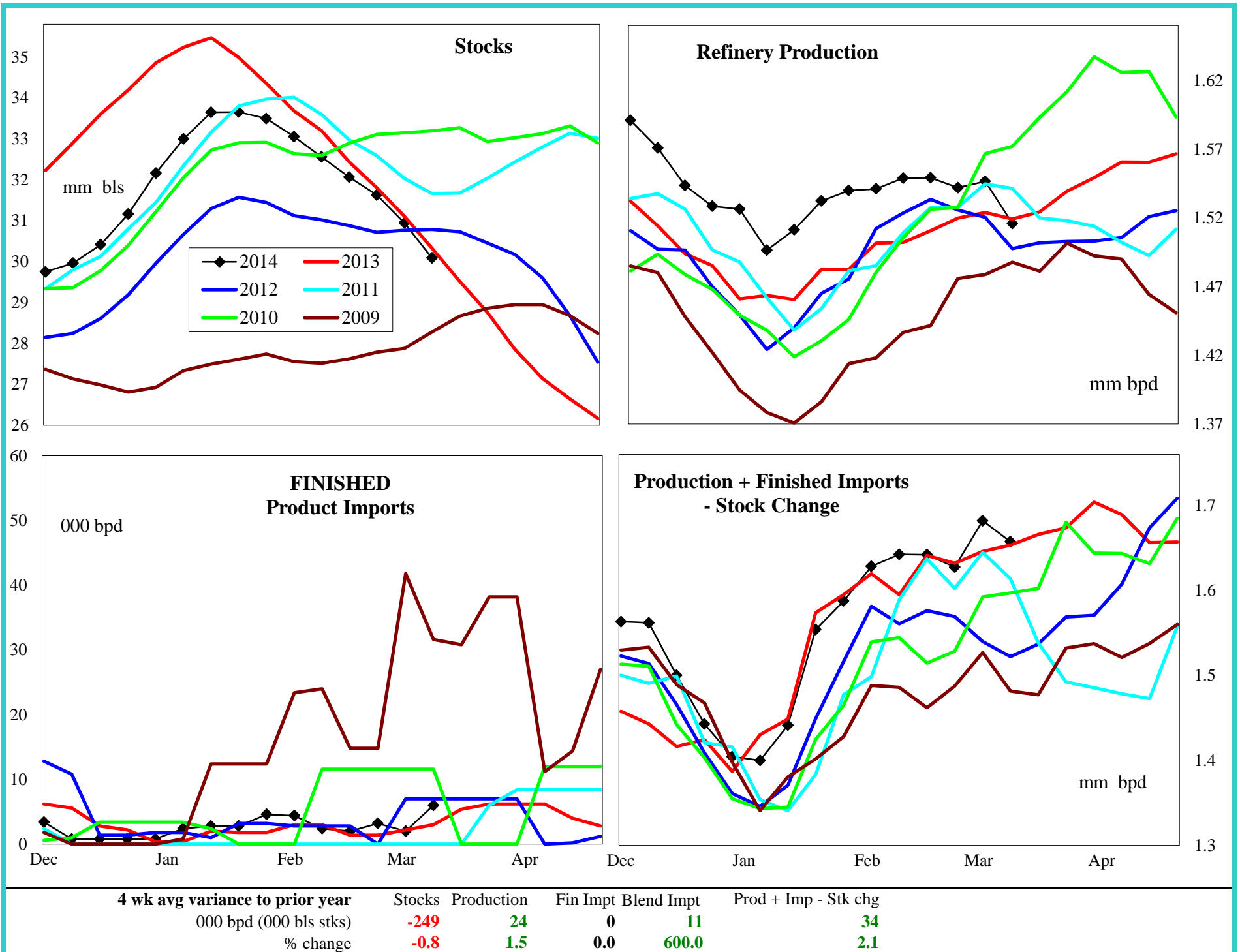




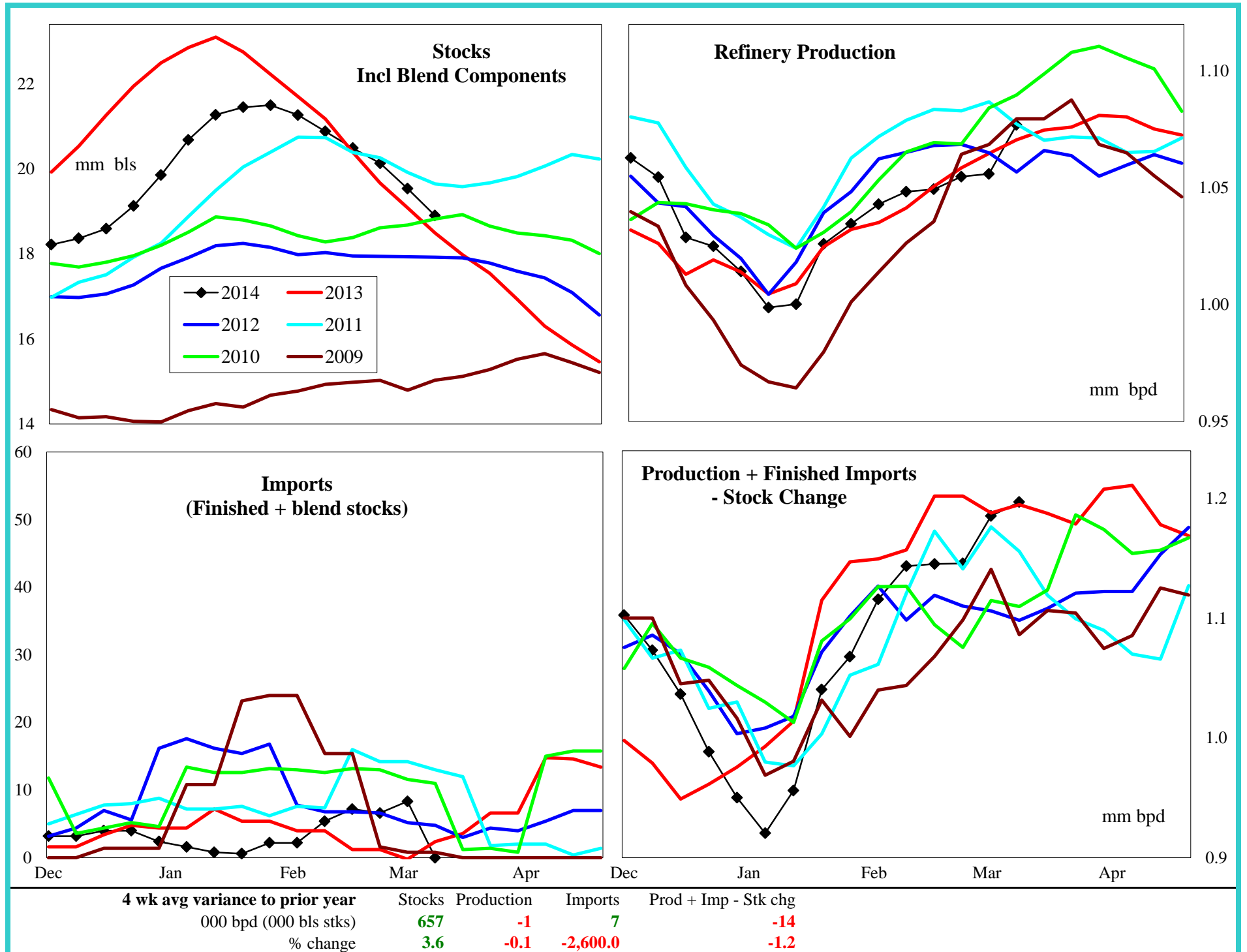
# PADD 5 Crude Oil Supply and Refining



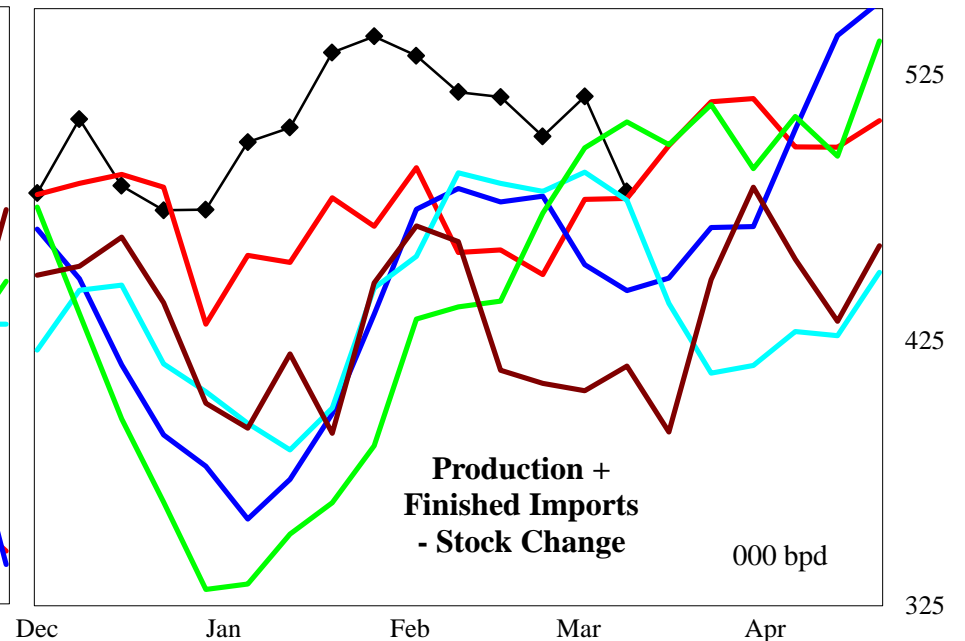
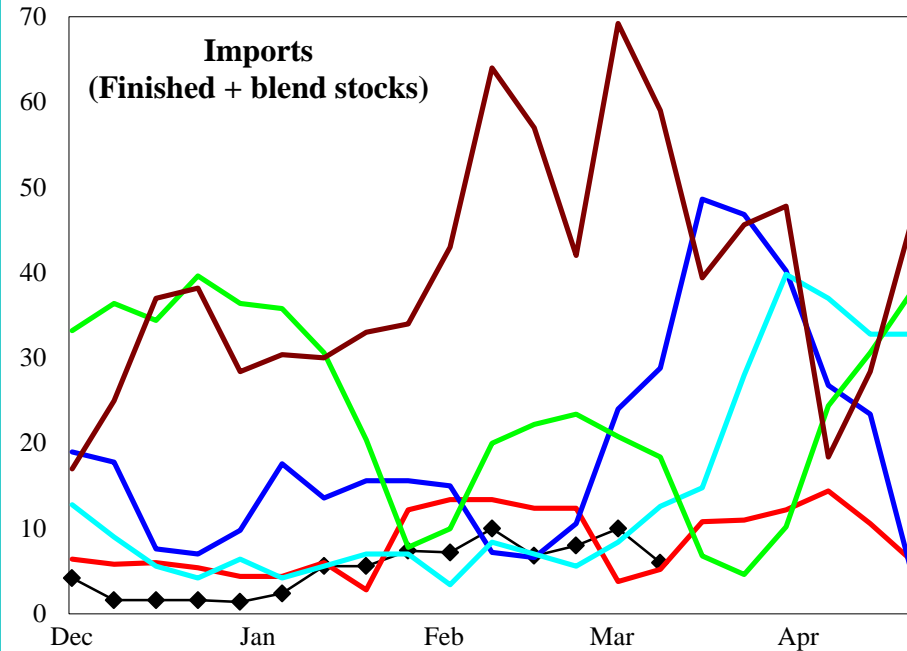
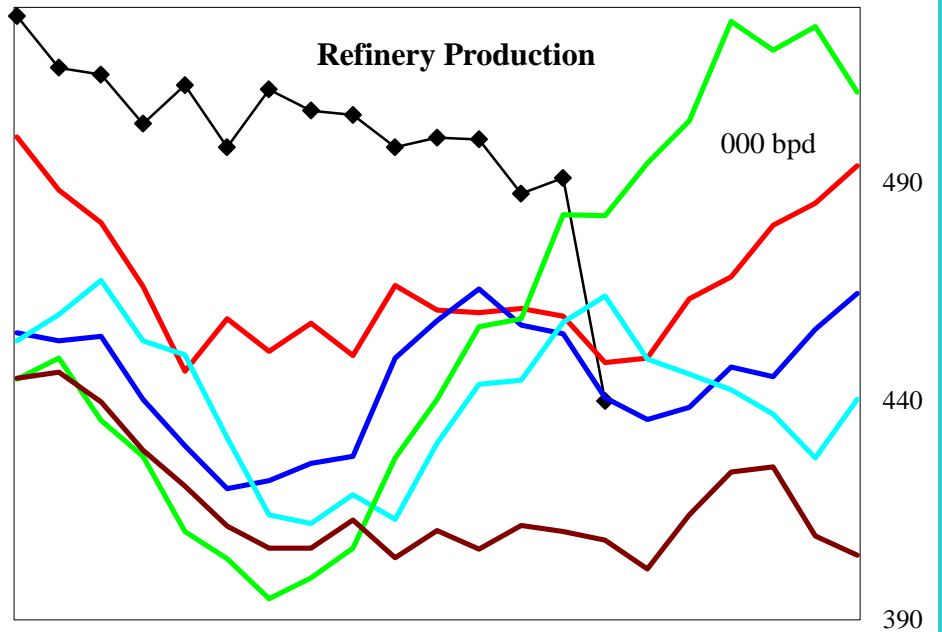
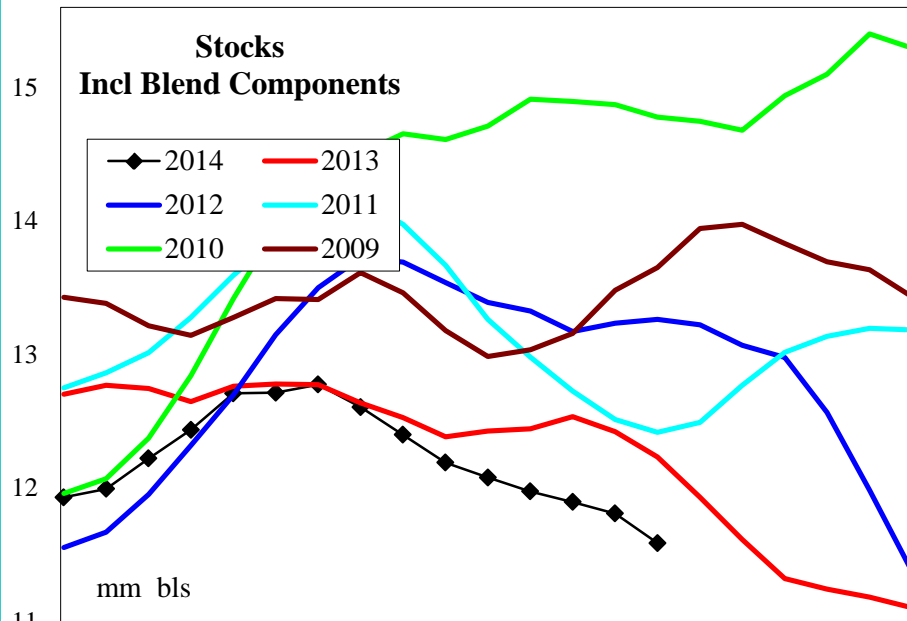
# PADD 5 Gasoline Supply



# PADD 5 Reformulated Gasoline Supply



# PADD 5 Conventional Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

-906

-7.4

Production

25

5.4

Imports

4

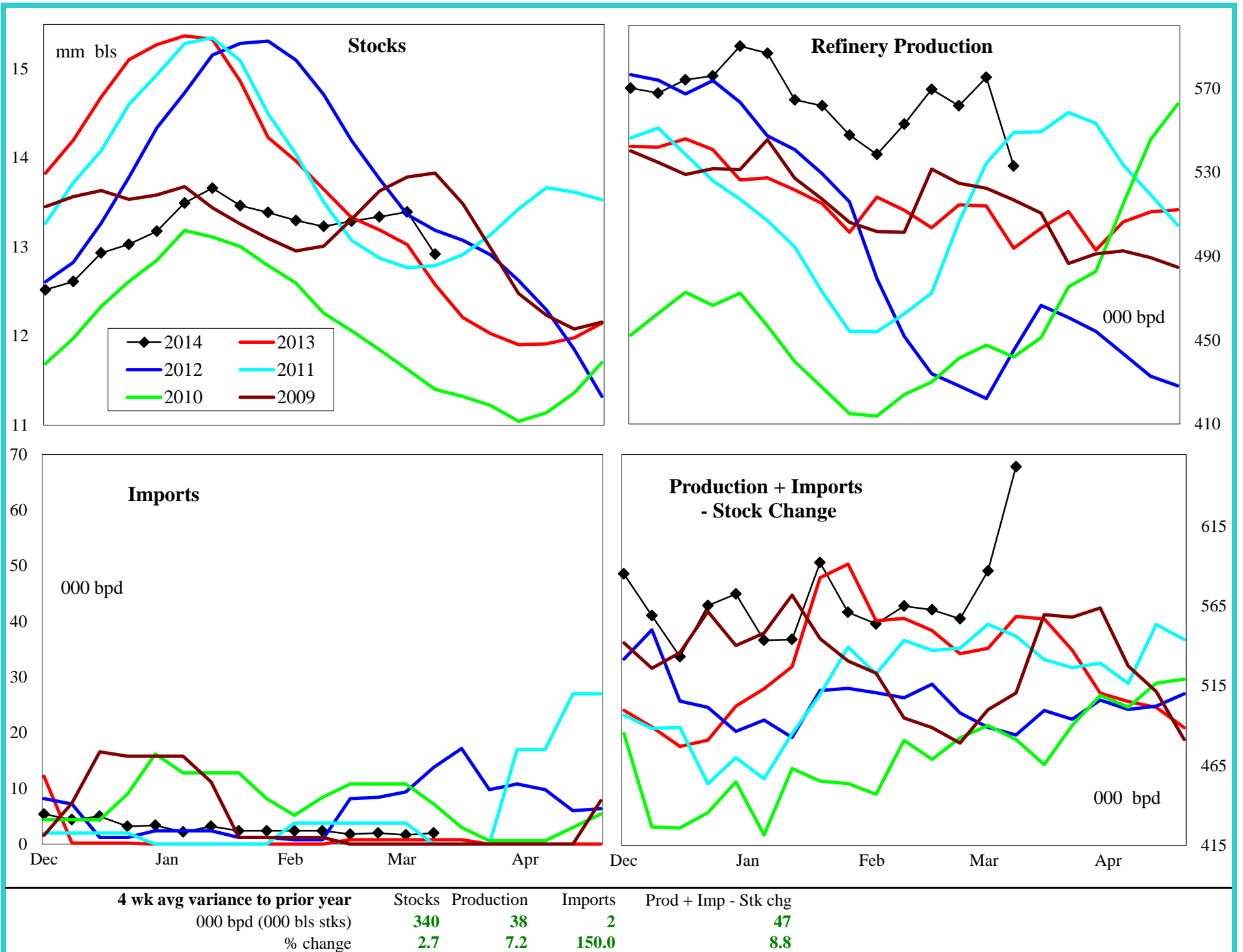
106.7

Prod + Imp - Stk chg

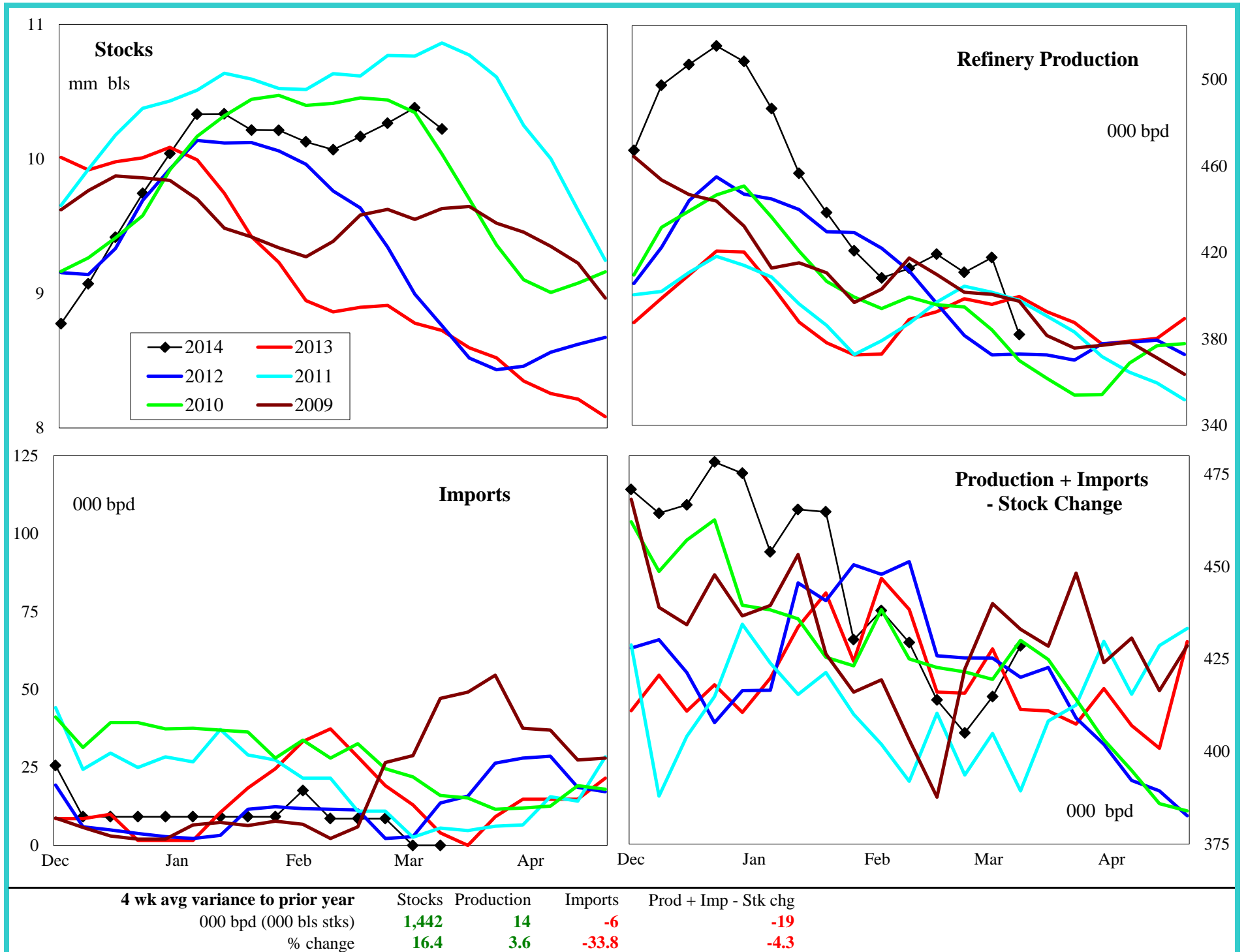
48

10.4

# PADD 5 Distillate Supply



## PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

