



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

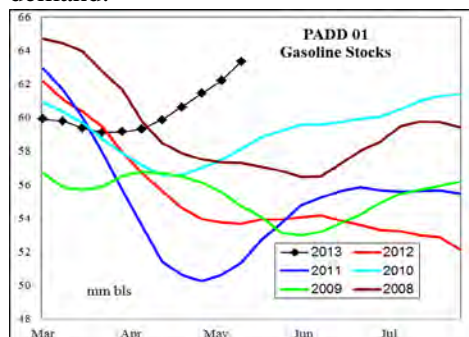
### A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, May 15, 2013

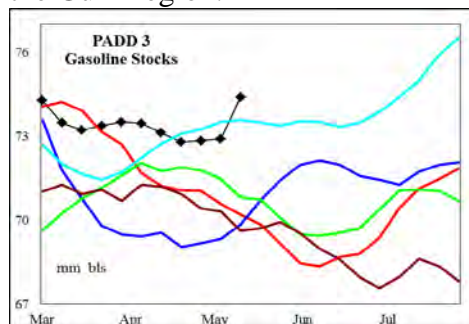


#### Major Fundamental Trends<sup>1</sup>

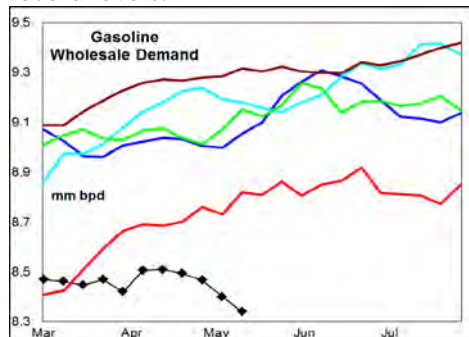
Gasoline stock levels on the East Coast climbed +1.8 million barrels last week to a new record high level for the spring quarter; driven by weak demand.



Gasoline stocks were also at record high levels for this time of year in the Gulf Region.

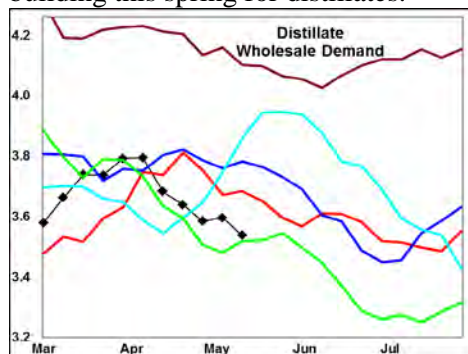


The high level of stocks in these regions has depressed NYMEX prices while supplies are extremely tight in the Midwest, with the West Coast relatively tight. As a result, cash basis has spiked in Midwest markets to record levels.

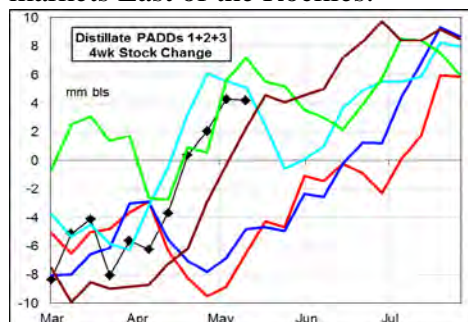


Wholesale demand trends for both gasoline and distillate averaged -3.1% below last year for the latest 4-wk

period. The longer term year-on-year downtrend in demand continues; contributing to the high stock levels on the East and Gulf Coast regions for gasoline and near record rate of stock building this spring for distillates.



The distillate supply demand balance continues to improve on a near record rate of stock building in markets East of the Rockies.



**Demand** for jet fuel spiked to record levels last week while gasoline and distillate each decreased nearly -100,000 bpd. Wholesale demand, measured over the last four weeks compared to a year ago: gasoline decreased -3.1%; distillate was -3.1% lower; jet fuel was +12% higher, and residual fuel fell -14%.

**Stocks forward coverage:** Gasoline demand coverage increased on a +2.6 million barrel stock build, and very weak demand. Coverage levels are extremely high for this time of year.

Distillate coverage increased on a +2.3 million barrel stock build and weak demand. Coverage levels ended the week near the average of the last 2-years.

Jet fuel coverage fell on a -1.2 million barrel stock draw and surge in demand. Days of coverage fell below the 5-year range.

Residual fuel oil coverage fell on a -1.2 million barrel stock draw and higher demand, although the level remains extremely high.

**Refinery utilization** rates increased on a +73,000 bpd increase in crude oil thru put for the week. During the latest 4-wk period crude oil input was +165,000 bpd above a year ago.

Gasoline yield % on crude oil runs jumped on a +256,000 bpd rise in output compared to the +73,000 bpd rise in crude oil thru put. Yield % on crude oil runs remain well below the historic range.

Distillate yield % on crude oil runs increased on a +108,000 bpd rise in output compared to the increase in crude oil throughput. The yield % on crude oil runs was above the 5-year range.

Jet fuel yield % on crude oil runs fell on a -86,000 bpd drop in output, compared to the higher crude oil runs. The yield % level fell to a level near prior year highs.

**Petroleum Imports/Exports** of gasoline and distillate each fell over -100,000 bpd last week.

During the latest 4-wk period crude oil imports were -1.1 million bpd below last year; distillate imports increased +104,000 bpd; finished gasoline imports decreased -58,000 bpd, gasoline blend stock imports were +74,000 bpd higher; jet fuel imports increased +8,000 bpd, while residual fuel oil imports were +20,000 bpd higher.

During the latest 4-wk period exports of gasoline were +73,000 bpd above last year, jet fuel was +13,000 bpd higher and distillate exports fell -143,000 bpd.

**Crude Oil** stocks declined -0.6 million barrels last week on record refinery runs. Stock levels ended the week +13 million barrels above prior 5-year highs.

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



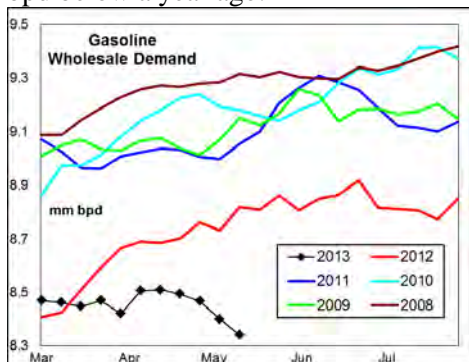
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

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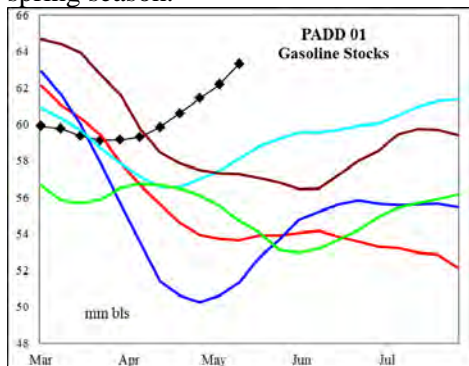
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#### Product Supply-Demand Trends

**Gasoline** wholesale demand decreased -104,000 bpd on the week. The latest 4-wk average demand was -268,000 bpd below last year. Supply increased +147,000 bpd last week. Supply for the latest 4-wk period was -152,000 bpd below a year ago.



Stocks saw a counter seasonal build of +2.6 million barrels last week, ending at a level above four of the last 5-years. Stocks increased +1.8 million barrels in PADD 1, lifting the stock level in this region to a new record high for the spring season.

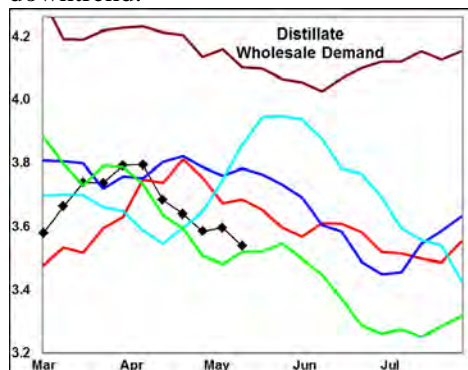


**Gasoline** production jumped +256,000p bpd last week to a level near year ago rates. Expect further increases in output as FCCU's return to full operation.

Stock levels in the Midwest and West Coast regional markets remain extremely low on unplanned refinery maintenance. Expect near term improvement in the supply balance for these regions as refiners return to operation.

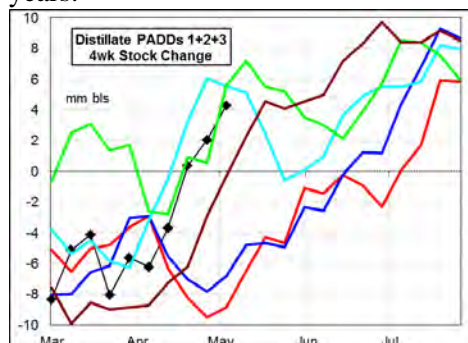
**Distillate** demand decreased -87,000 bpd last week, at a level below the last 2-years. The latest 4-wk average demand was -114,000 bpd below a

year ago, continuing the longer term downtrend.



Supply decreased -17,000 bpd last week, sharply lower imports, partially offset by higher production. The latest 4-wk average supply was +238,000 bpd above last year. Stocks increased +2.3 million barrels on the week.

The latest 4-wk stock change in markets East of the Rockies was a +4.2 million barrel build, compared to -5.5 million barrel draws for the last 2-years.



Weak demand, lower exports, and high production has led to the near record rate of stock building in markets East of the Rockies.

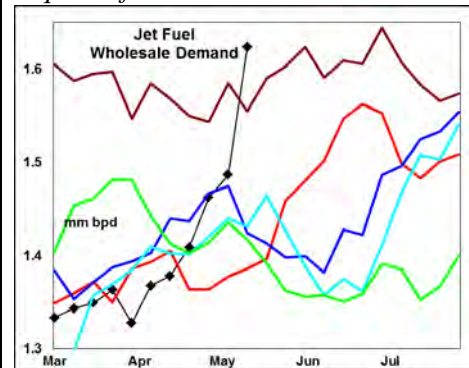
Production averaged +134,000 bpd above a year ago for the last 4-wks, with imports +104,000 bpd higher. Combined with weak demand, expect a continued high rate of stock build for the balance of the spring quarter.

**Jet Fuel** demand spiked last week +151,000 bpd to a record high weekly level. The latest 4-wk average demand was +161,000 bpd above a year ago.

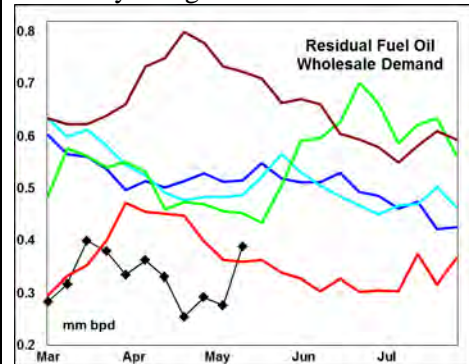
Supplies fell -72,000 bpd on the week, driven by lower production. Supply for the latest 4-wk period was +136,000 bpd above a year ago.

Stocks fell -1.2 million barrels on the week, with the level matching 5-year lows

*Look for a sharp pull back in demand as airlines likely filled private inventory ahead of the summer travel season. Look for stocks to build at an above average rate; driven by the incentive of no RINNS purchase required for sale.*



**Residual fuel oil** demand jumped +167,000 bpd last week. Demand for the latest 4-wk period was -51,000 bpd below a year ago.



Supply (production + imports) declined -107,000 bpd last week, on lower production. Production fell to a record low last week. Stocks fell -1.2 million barrels with the level still above the mid range.

Stock levels ended the week significantly above the last year in all major regional markets; due by exceptionally low demand. Markets remain very well supplied in all regional markets East of the Rockies.





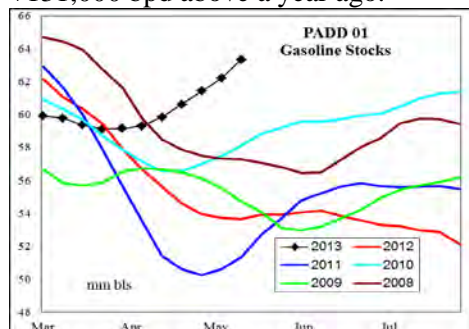
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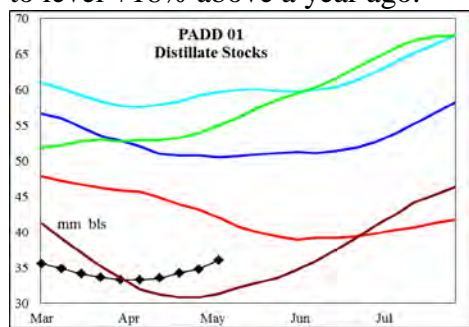
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#### PADD Supply Trends

**PADD 1** refinery crude oil runs increased +35,000 bpd last week, to a level above the last 2-years. The latest 4-wk average crude oil thru put was +131,000 bpd above a year ago.

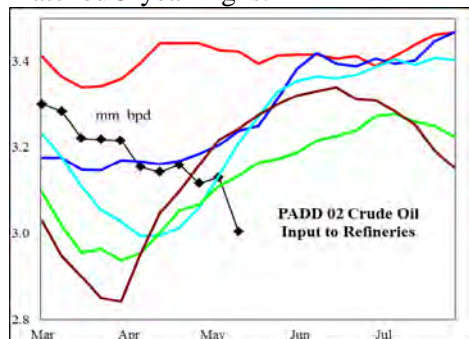


Gasoline supply fell -213,000 bpd on the week, with supplies +110,000 bpd above a year ago. Stocks jumped +1.8 million barrels to level +18% above a year ago.



Distillate supply increased +61,000 bpd on the week. Production levels were slightly above the last 2-years.

Jet fuel supplies decreased -28,000 bpd on the week. Stocks increased +0.5 million barrels, to a level that matched 5-year highs.



**PADD 2** crude oil refinery runs fell -197,000 bpd on the week, to a level well below the 5-year range. Runs for the latest 4-wk period were -301,000 bpd below last year. Crude oil stocks

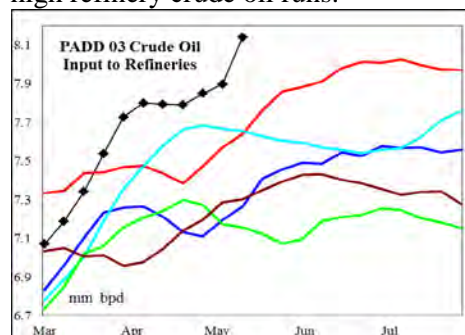
increased +0.3 million barrels on the week. Stocks ended the week +10% above a year ago at Cushing.

Gasoline production increased +69,000 bpd on the week, to level above the last 2-years. Stocks fell -0.9 million barrels to a level that matched historic lows.

Distillate supply decreased -55,000 bpd last week, to a level near 5-year lows. Stocks decreased -0.5 million barrels on the week, to a level that matched the 3-year mid range.

Jet fuel production fell -41,000 bpd to a level below the last 2-years. Stock levels ended the week -9% below the prior record low for the period.

**PADD 3** refinery runs increased +216,000 bpd on the week. The latest 4-wk average runs were +287,000 bpd above a year ago. Crude oil stocks declined -1 million barrels on record high refinery crude oil runs.



Gasoline supply jumped +302,000 bpd on the week, to a level above last year. Stocks increased +1.8 million barrels on the week, to a record high level.

Distillate supply increased +28,000 bpd on the week on sharply higher production partially offset by a drop in imports. The latest 4-wk average supply was +84,000 bpd above last year. Stocks surged +3.4 million barrels on the week, to a level +14% above last year.

Jet fuel supply fell -77,000 bpd on the week with production equal to prior historic highs for the week. Stocks ended the week at a 5-year low.

Residual fuel oil supplies fell -107,000 bpd to a level that matched historic lows. Stocks fell -0.9 million barrels but the level remains near

record highs.

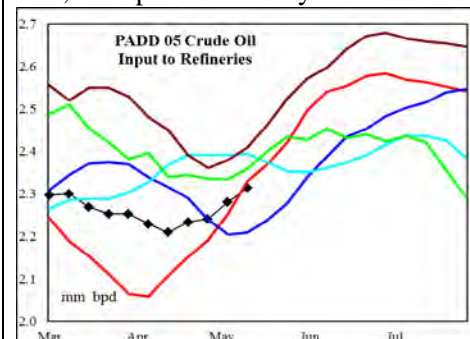
**PADD 4** refinery crude runs jumped +38,000 bpd last week, to a level above the historic range.

Gasoline production increased +5,000 bpd on the week, with the level comparable to the last 2-years. Stocks increased +0.1 million barrels, ending the week at a level equal to the average of the last 2-years.

Distillate production increased +4,000 bpd on the week, with the level near historic highs for the period. Stock levels match 5-year highs for this time of year.

Jet fuel stocks ended the week below each of the last 3-years.

**PADD 5** crude oil refinery runs decreased -19,000 bpd on the week; to a level comparable with a year ago. The latest 4-wk average run rate was +24,000 bpd above last year.



Gasoline supply increased +33,000 bpd on the week, with production above the last 5-years. The latest 4-wk average supply was +51,000 bpd above a year ago. Stocks decreased -0.2 million barrels, to match 5-year lows.

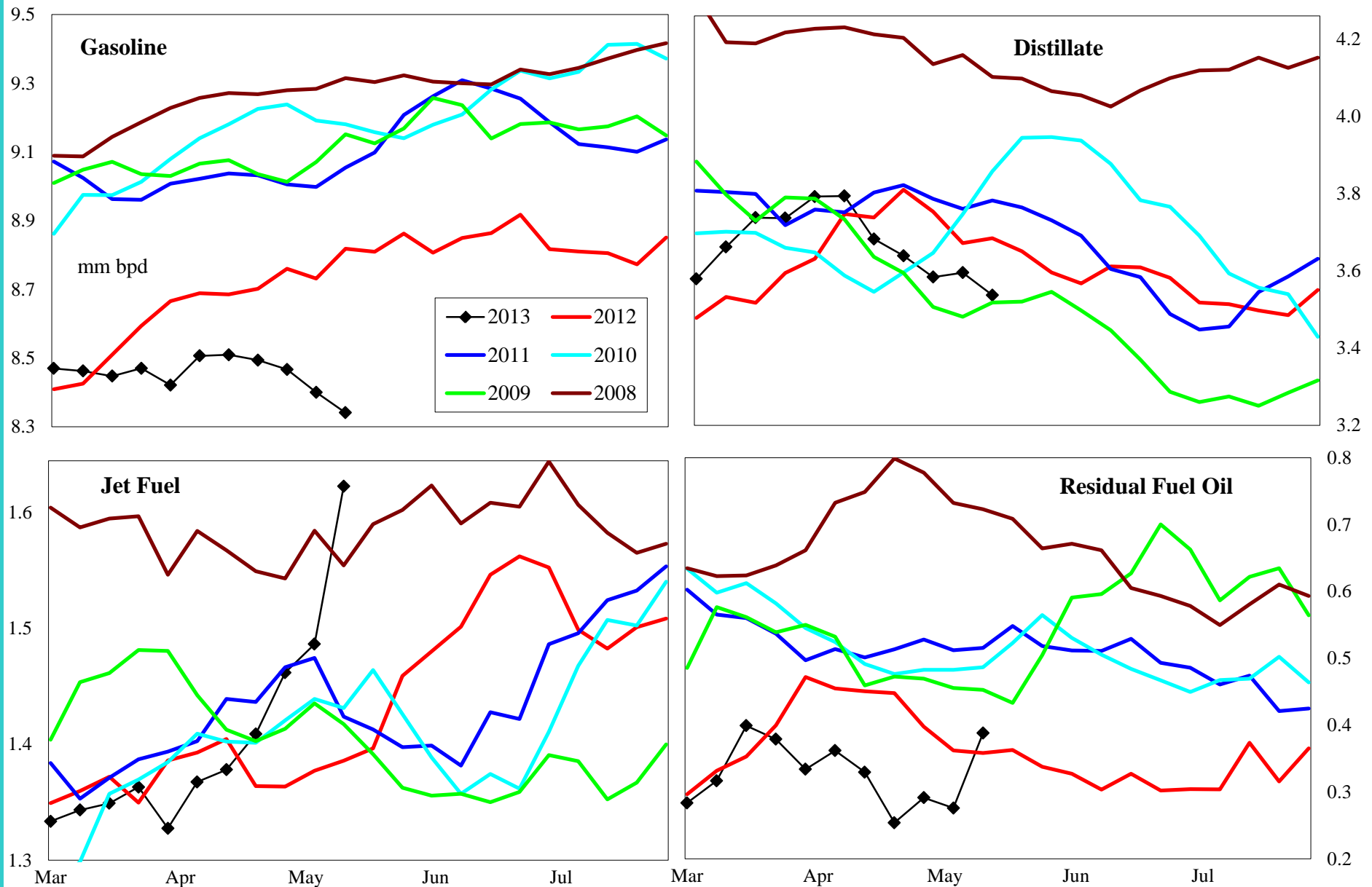
Distillate supply climbed +66,000 bpd, to a level that matched the 5-year highs. Stocks increased +0.6 million barrels, to a level above the mid range.

Jet fuel supply jumped +73,000 bpd on higher production and imports. Stocks fell -0.6 million barrels, to a fresh 5-year low.

Residual fuel oil production was -36% below a year ago for the latest 4-wk average, pointing to refinery upgrades of the bottom of the barrel.



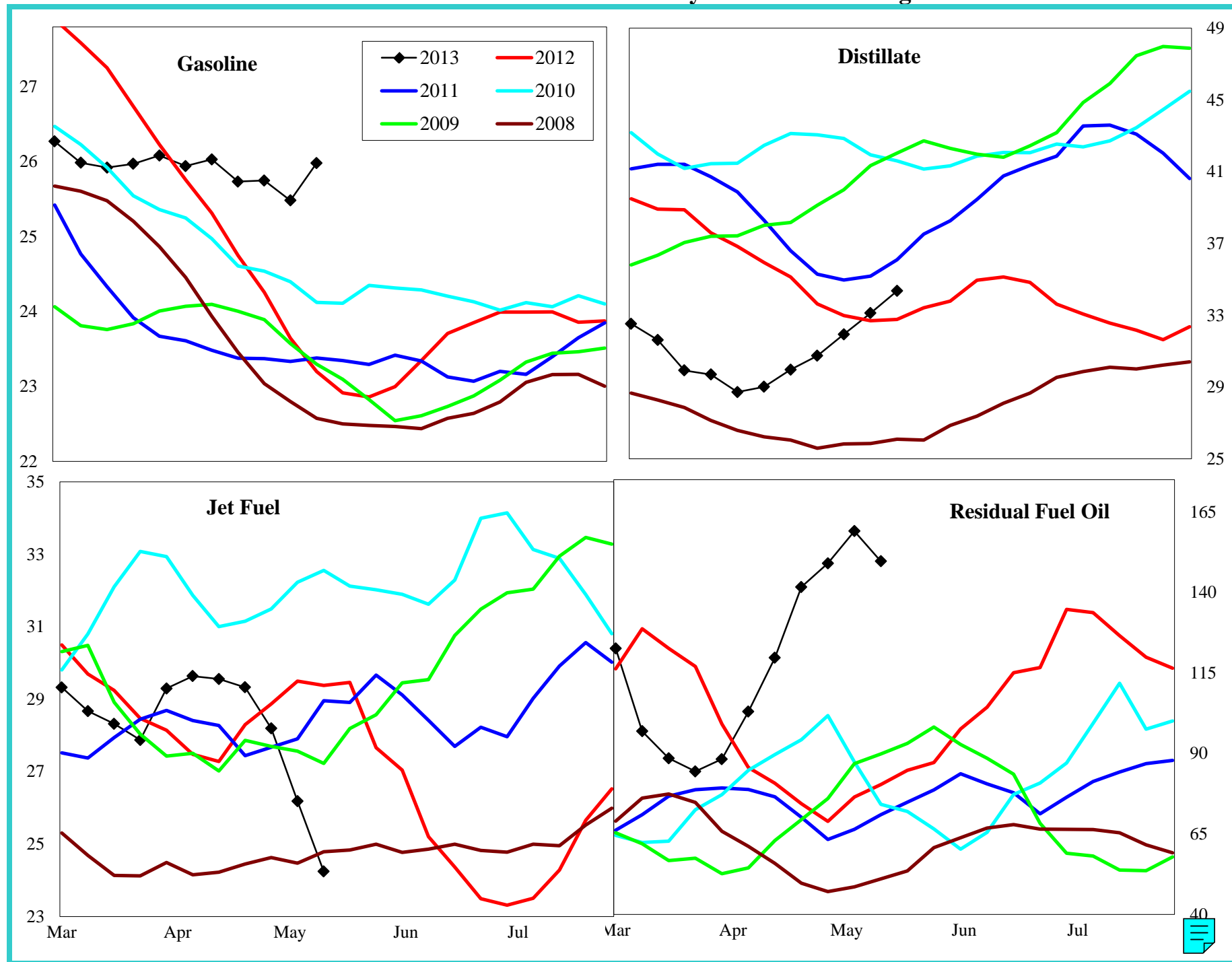
## United States Wholesale Petroleum Demand



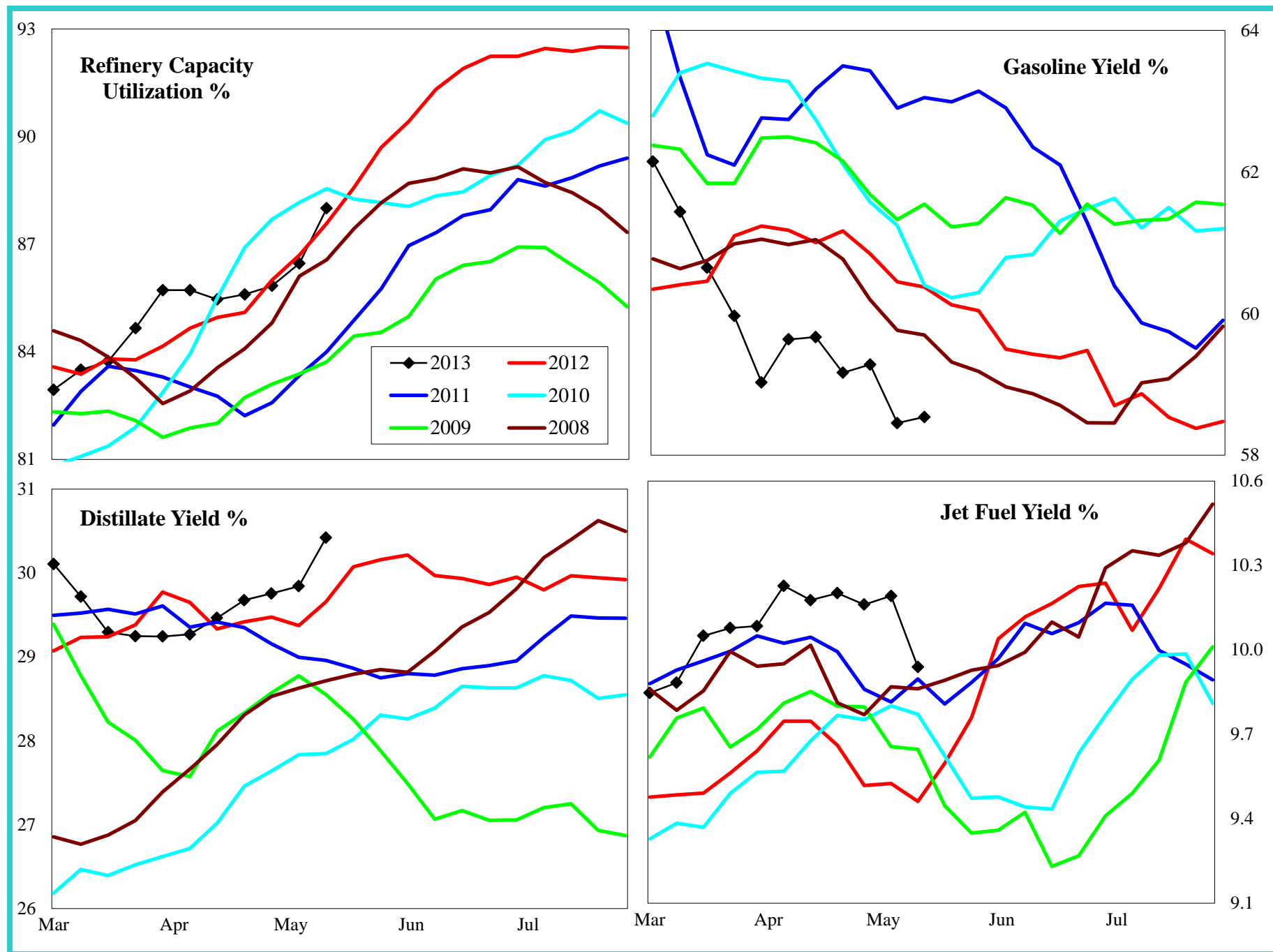
	000 bpd change from prior year				% change from prior year				
	4wk avg	Apr	Mar	Jan	4wk avg	Apr	Mar	Feb	
Gasoline	-268	-311	-165	-210	-3.1	-3.5	-1.9	-2.4	
Distillate	-114	-21	52	-5	-3.1	-0.6	1.4	-0.1	
Jet Fuel	161	34	-17	-30	11.9	2.5	-1.2	-2.2	
Resid	-51	-146	8	-90	-14.3	-35.8	1.9	-22.8	



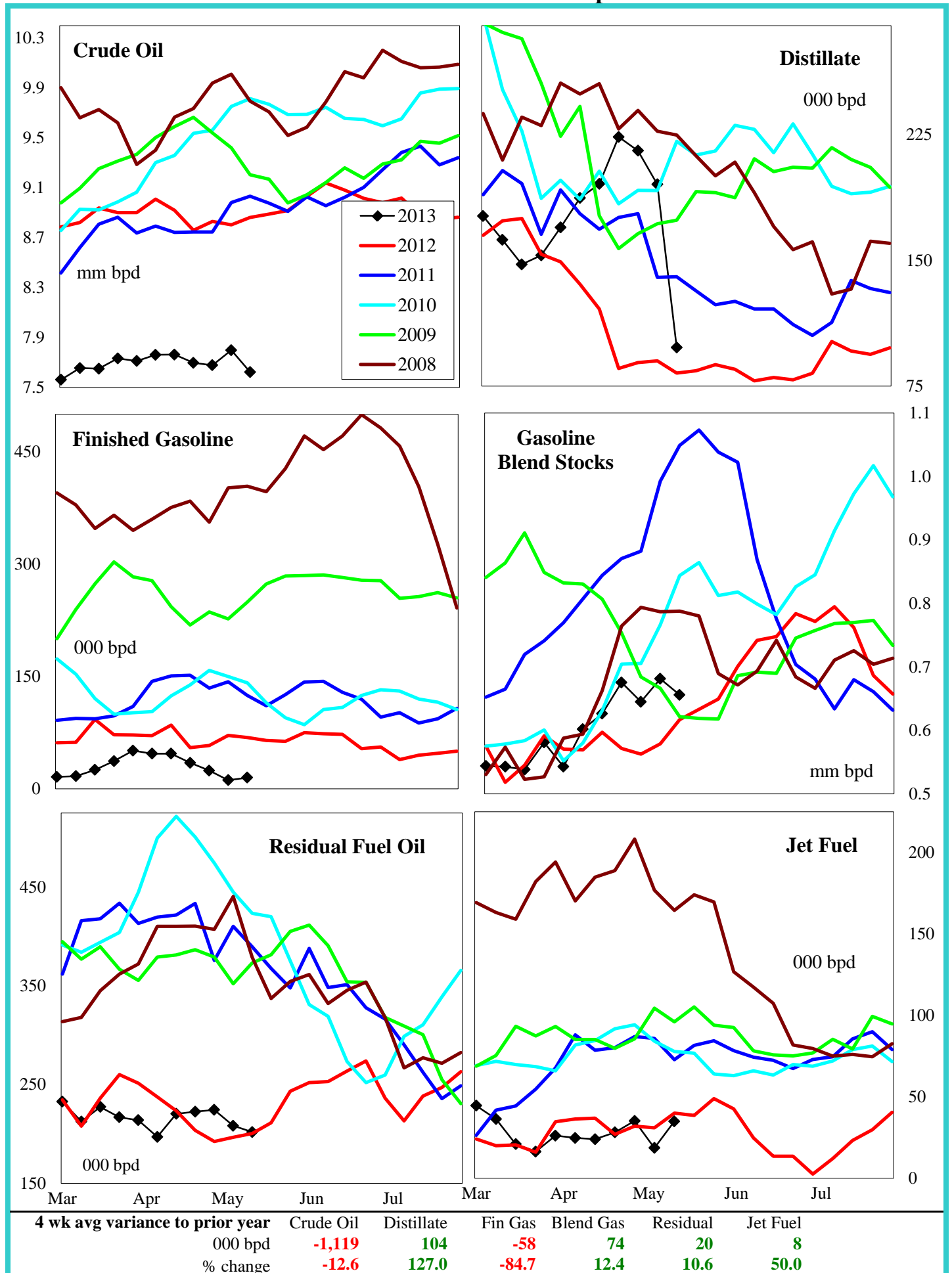
## United States Product Stocks: Days Forward Coverage



## United States Refinery Percent Utilization Rate and Product Yields

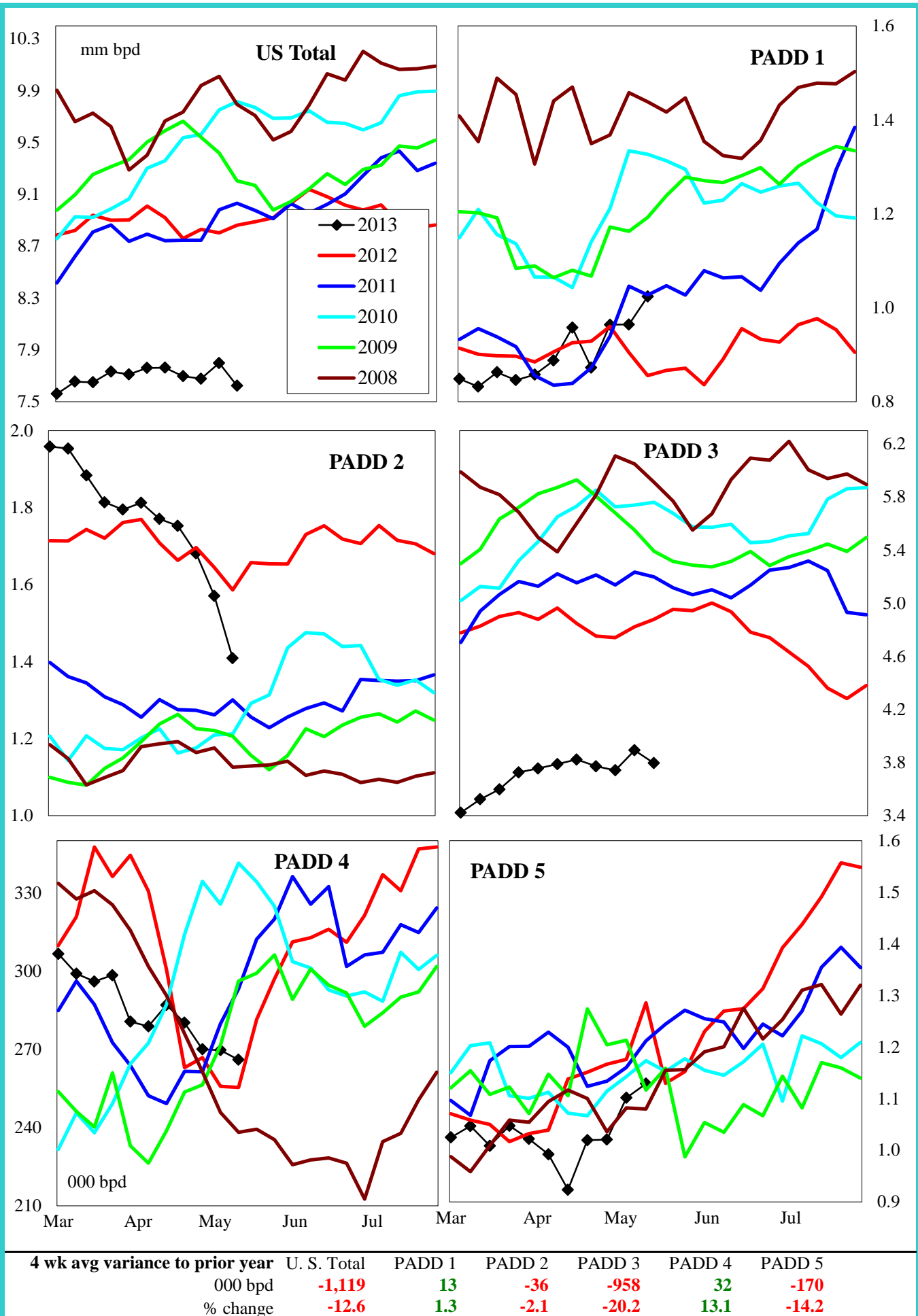


# United States Petroleum Imports

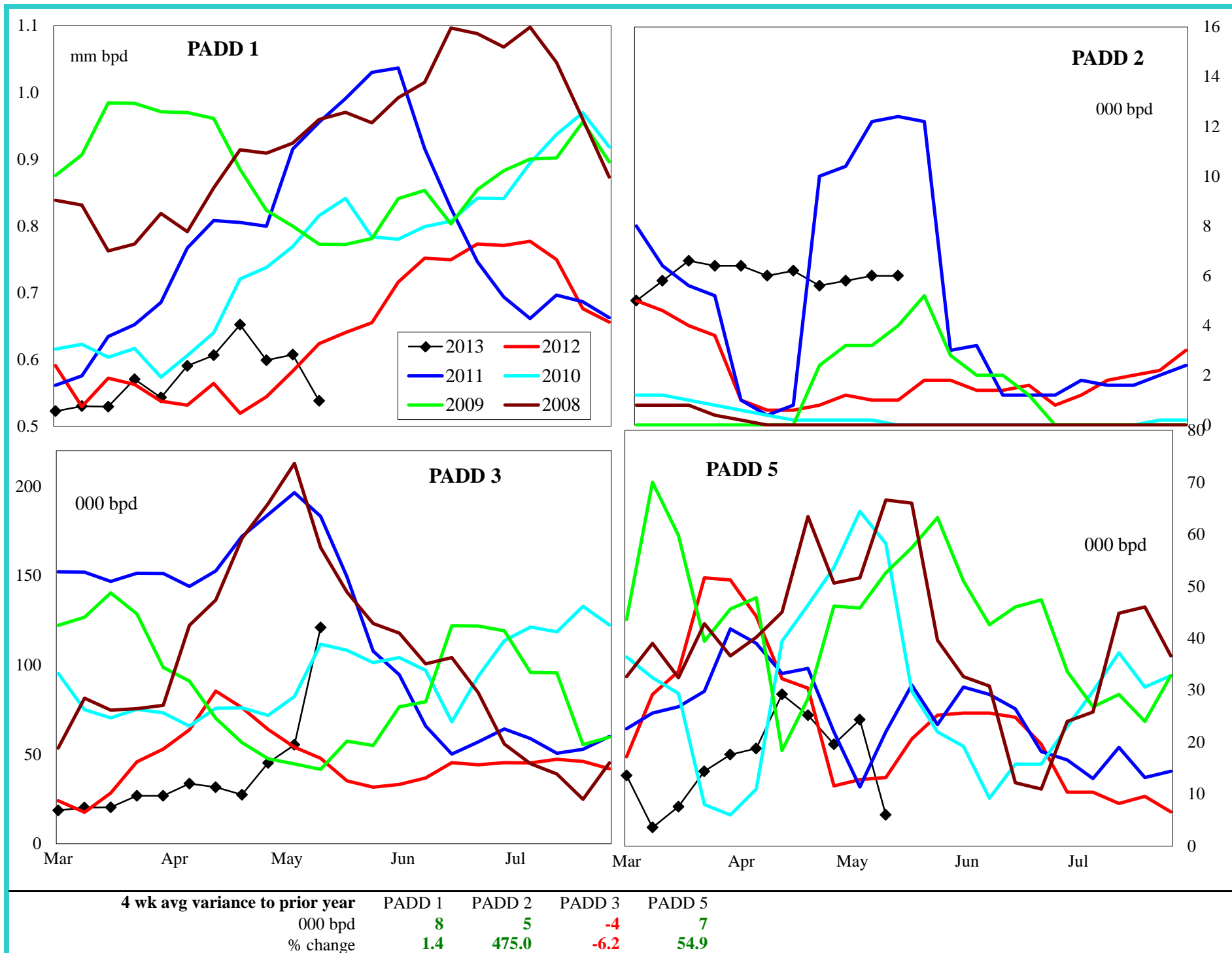




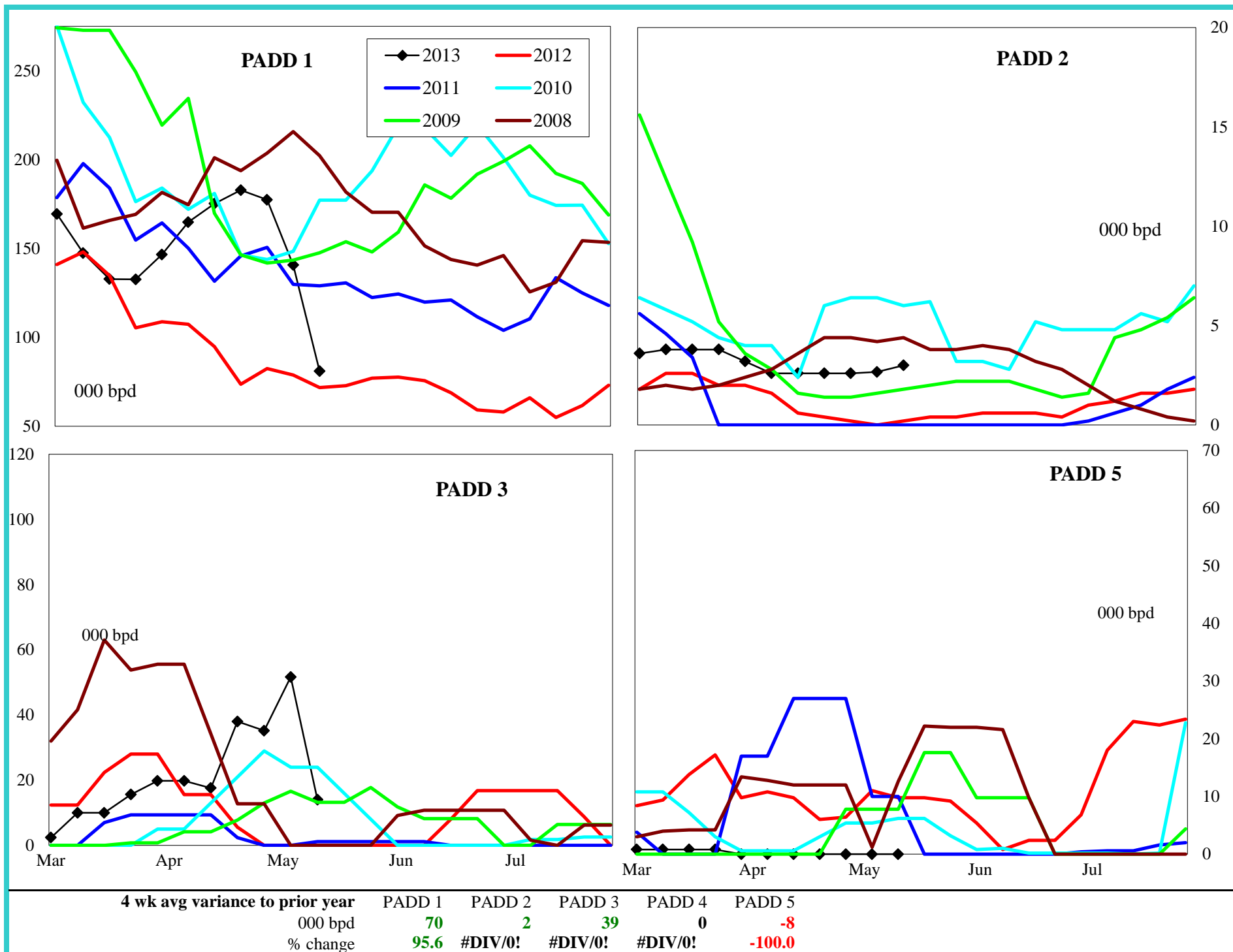
## Crude Oil Imports by PADD



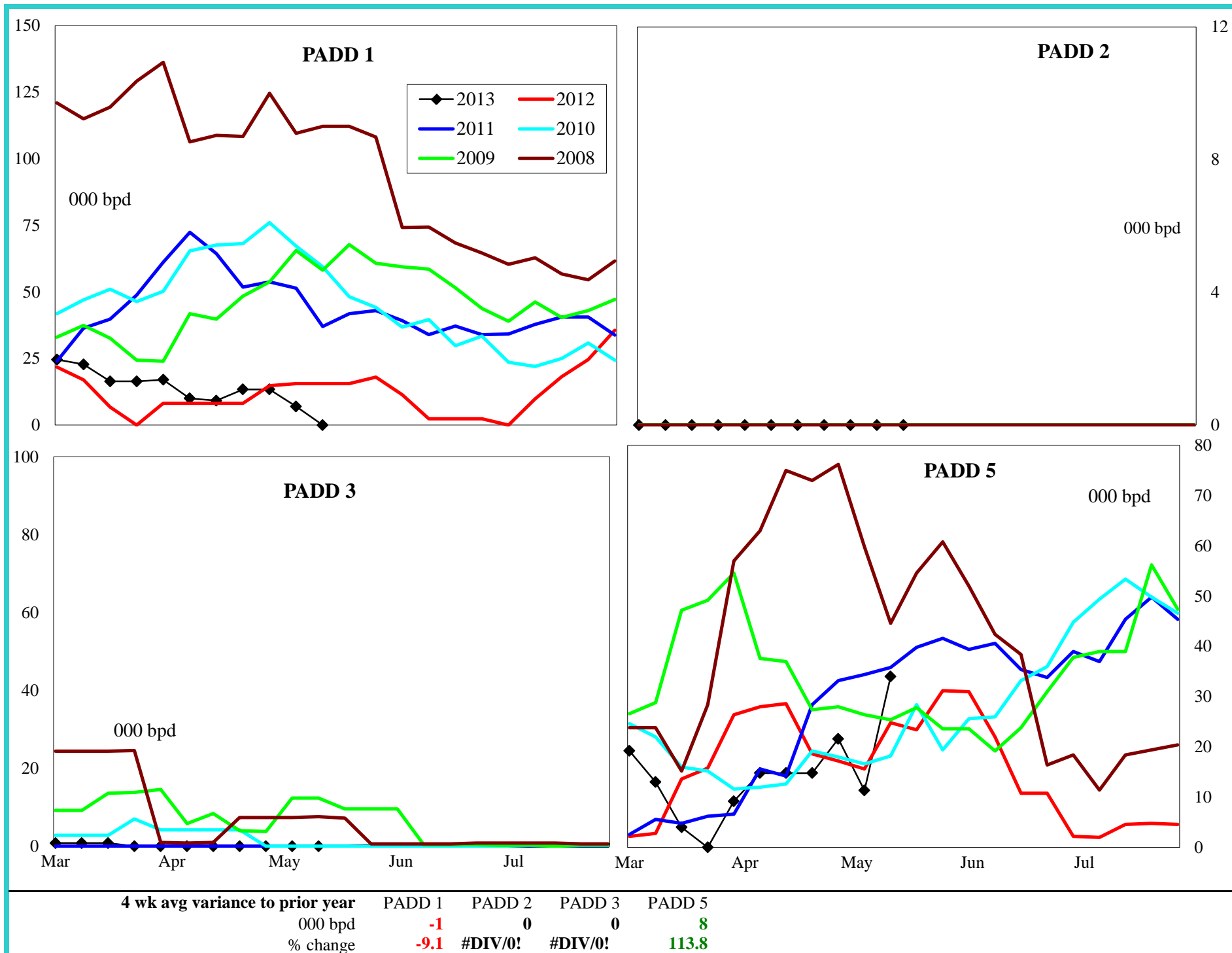
# Gasoline Imports by PADD (Finished + Blend Stocks)



# Distillate Imports by PADD

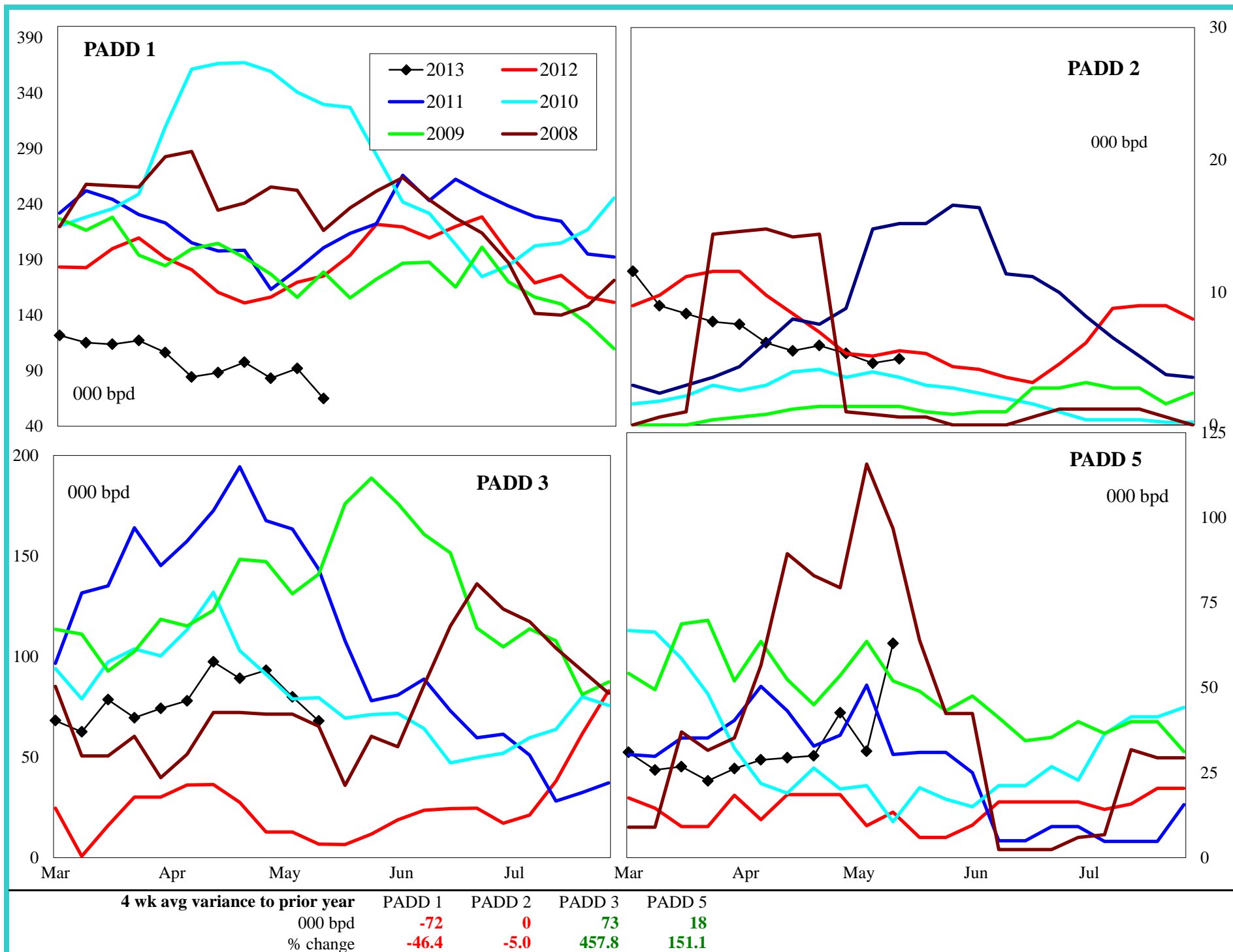


# Jet Fuel Imports by PADD

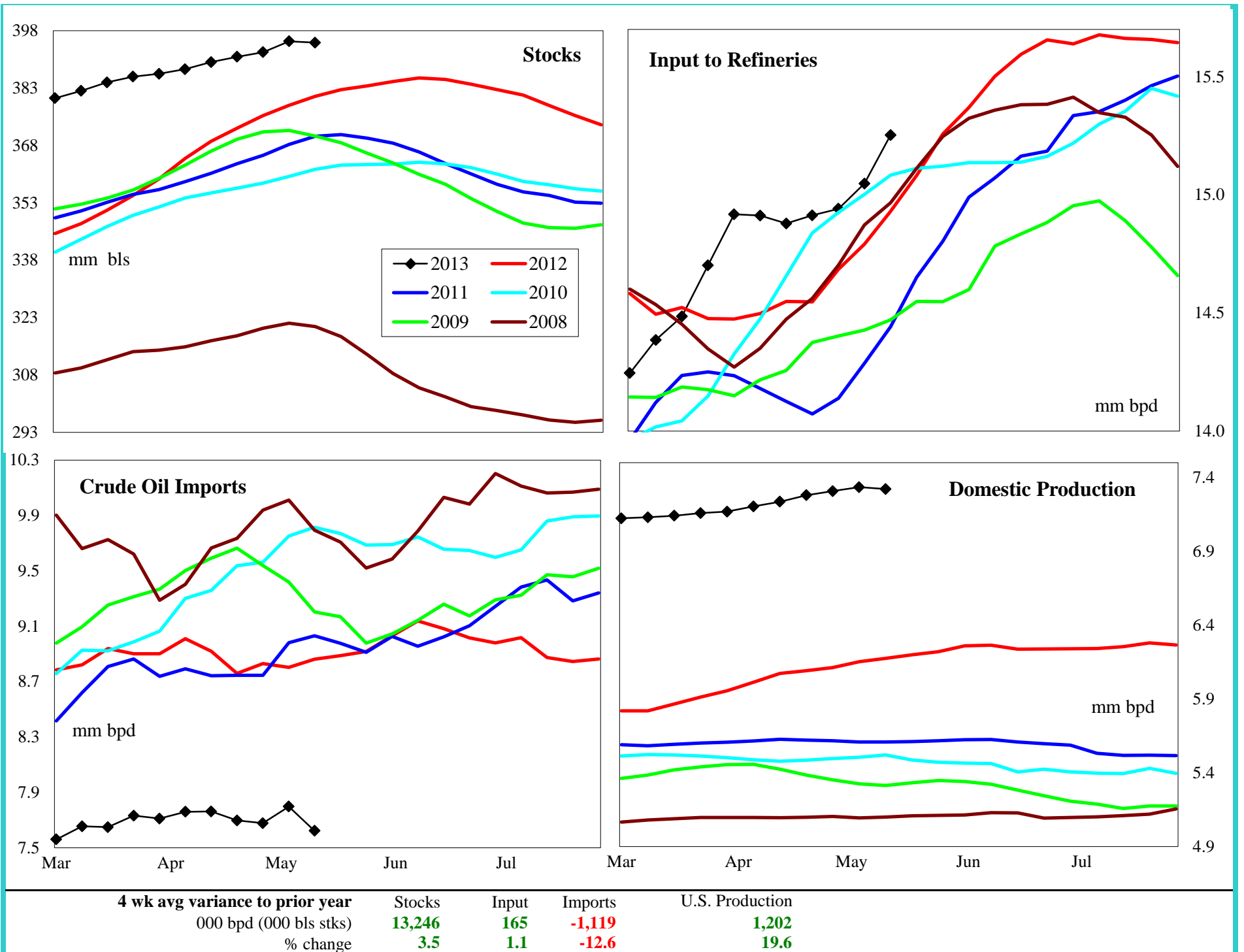




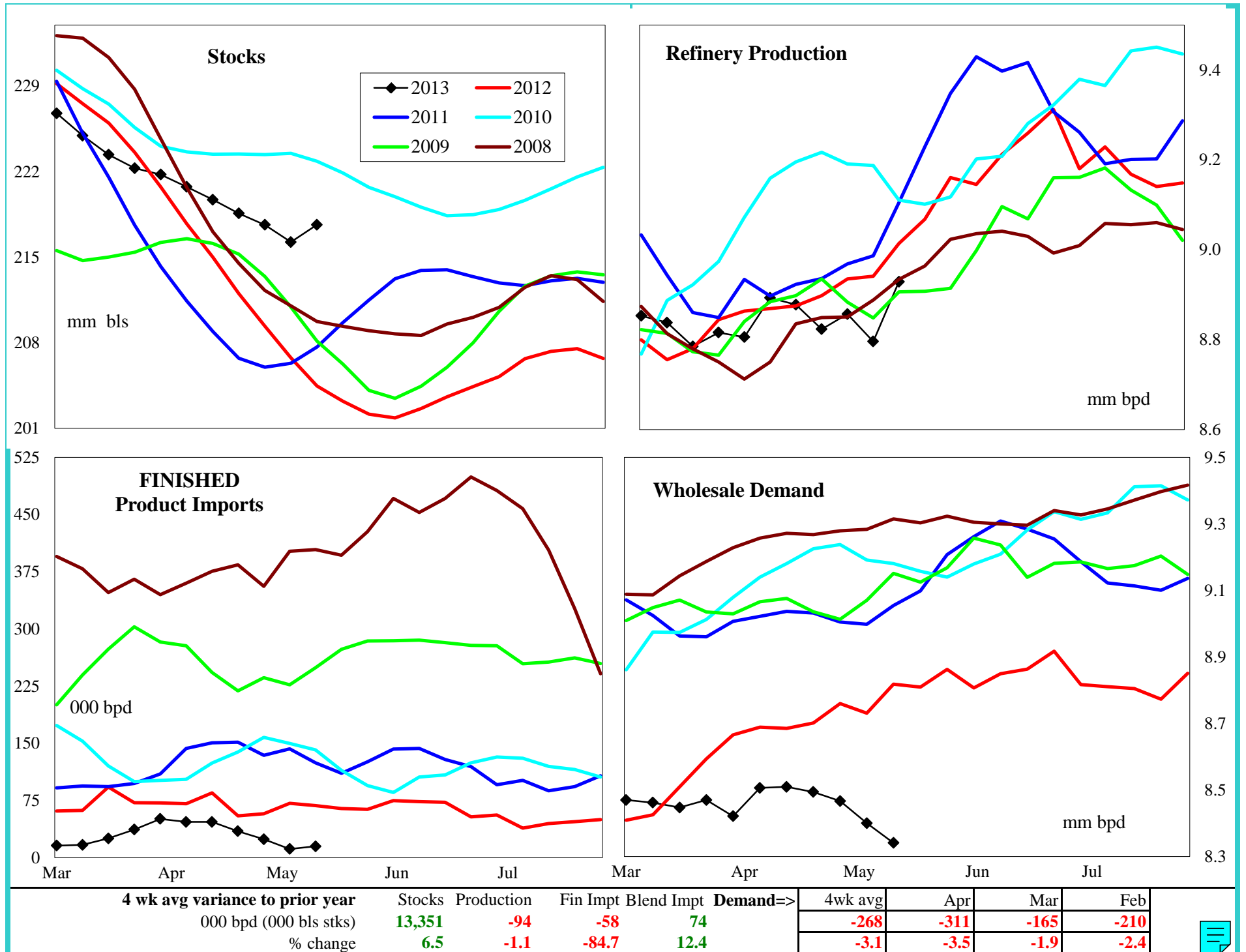
## Residual Fuel Oil Imports by PADD



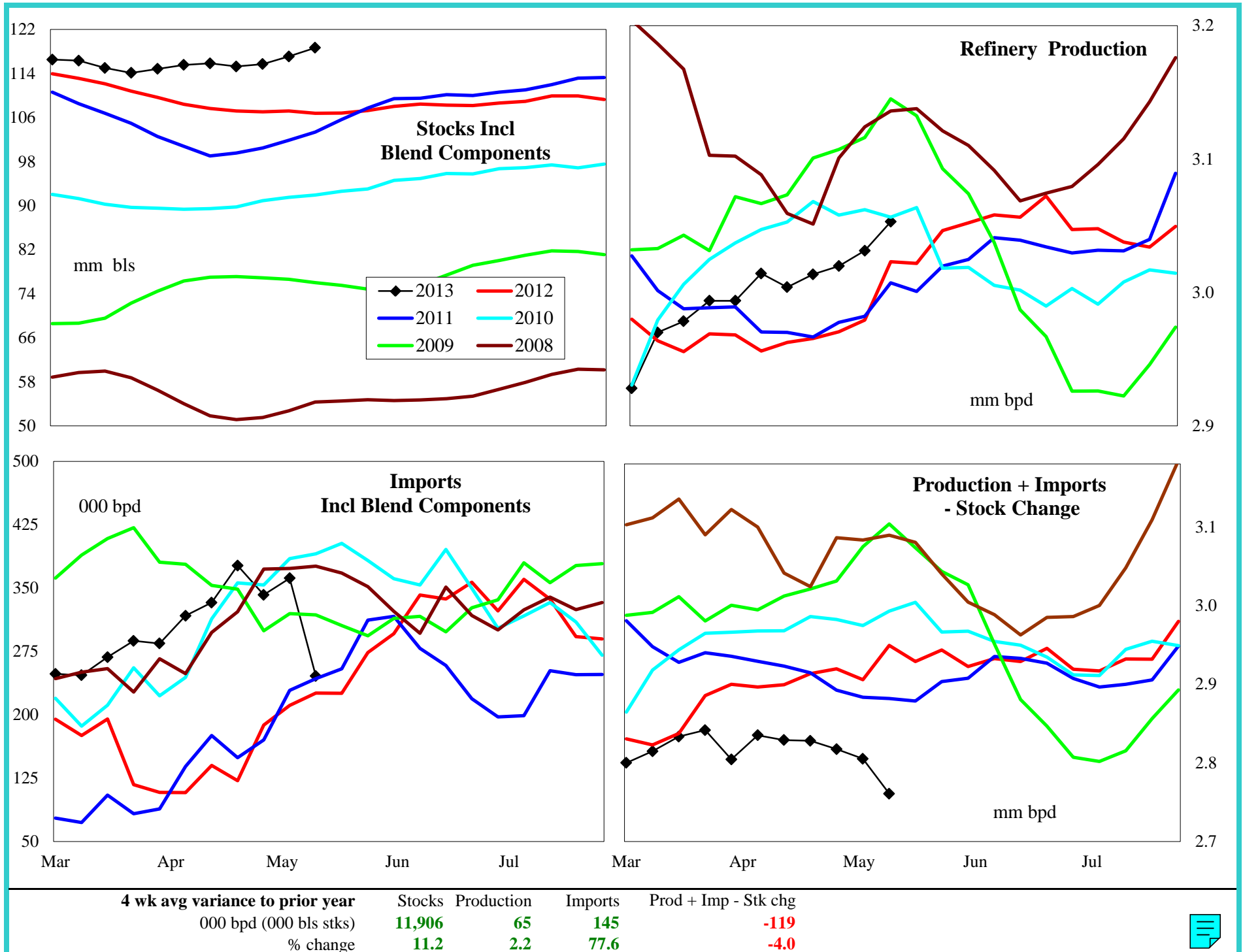
# United States Crude Oil Supply and Demand Balance



# United States Gasoline Supply and Demand Balance

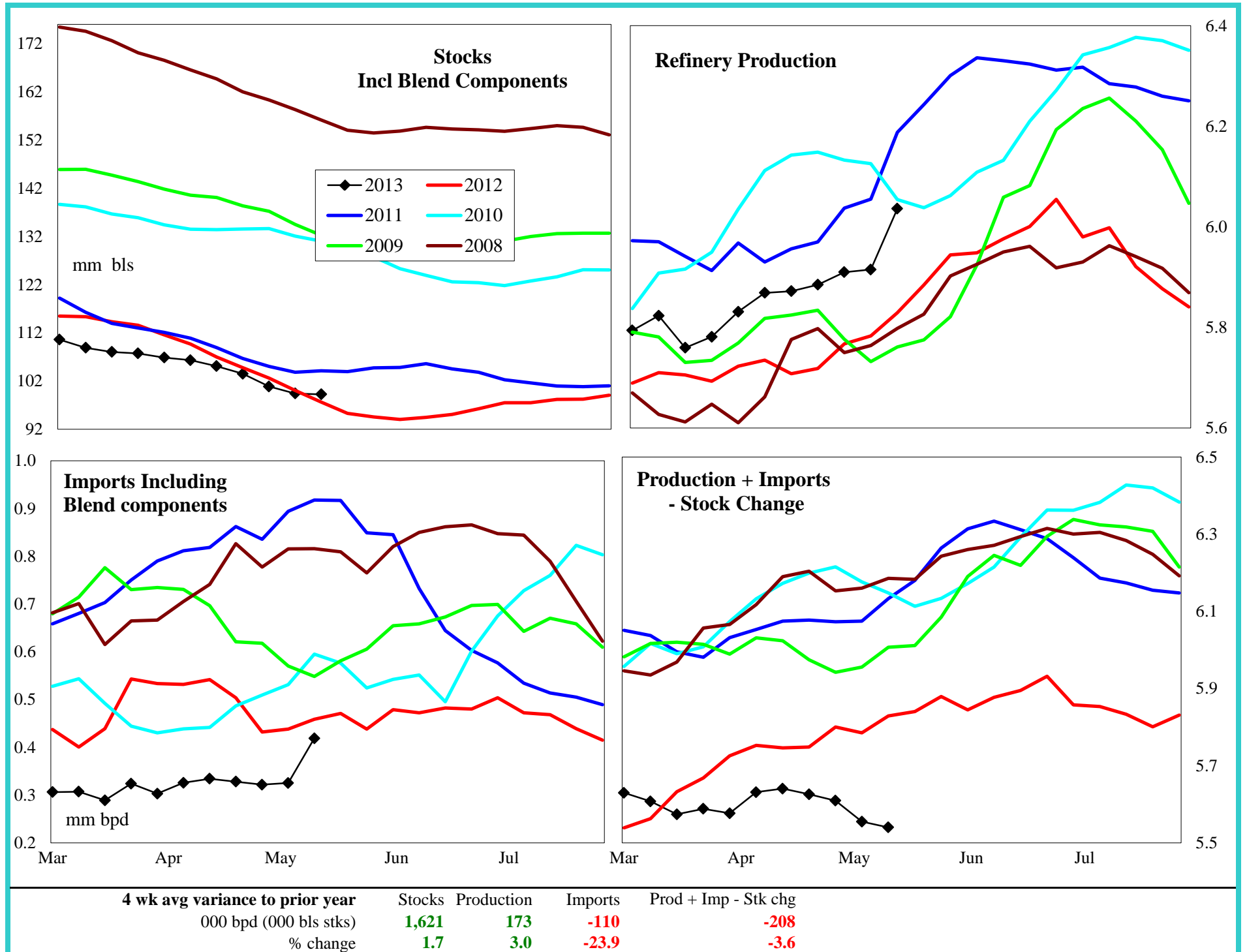


# United States Reformulated Gasoline Supply

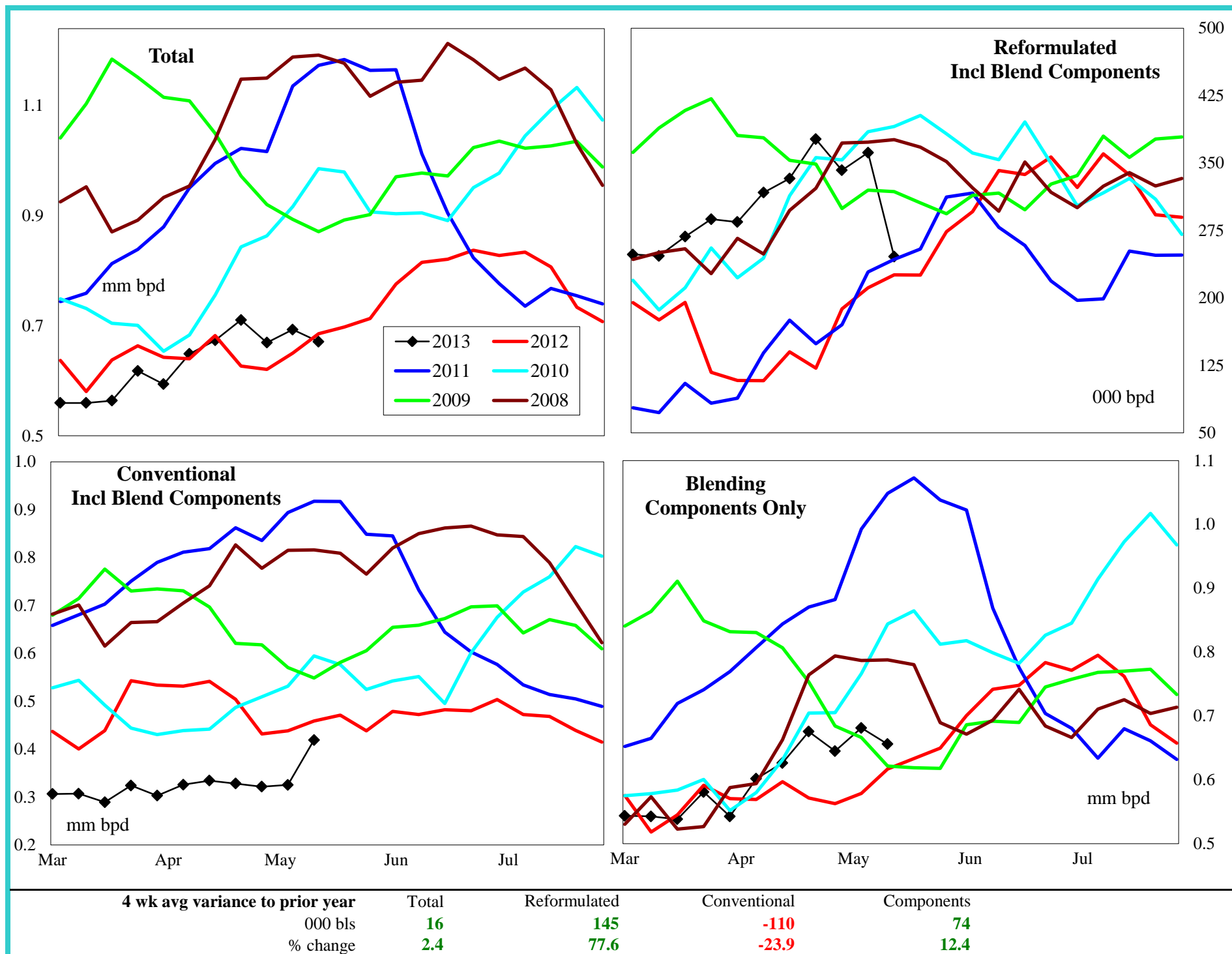




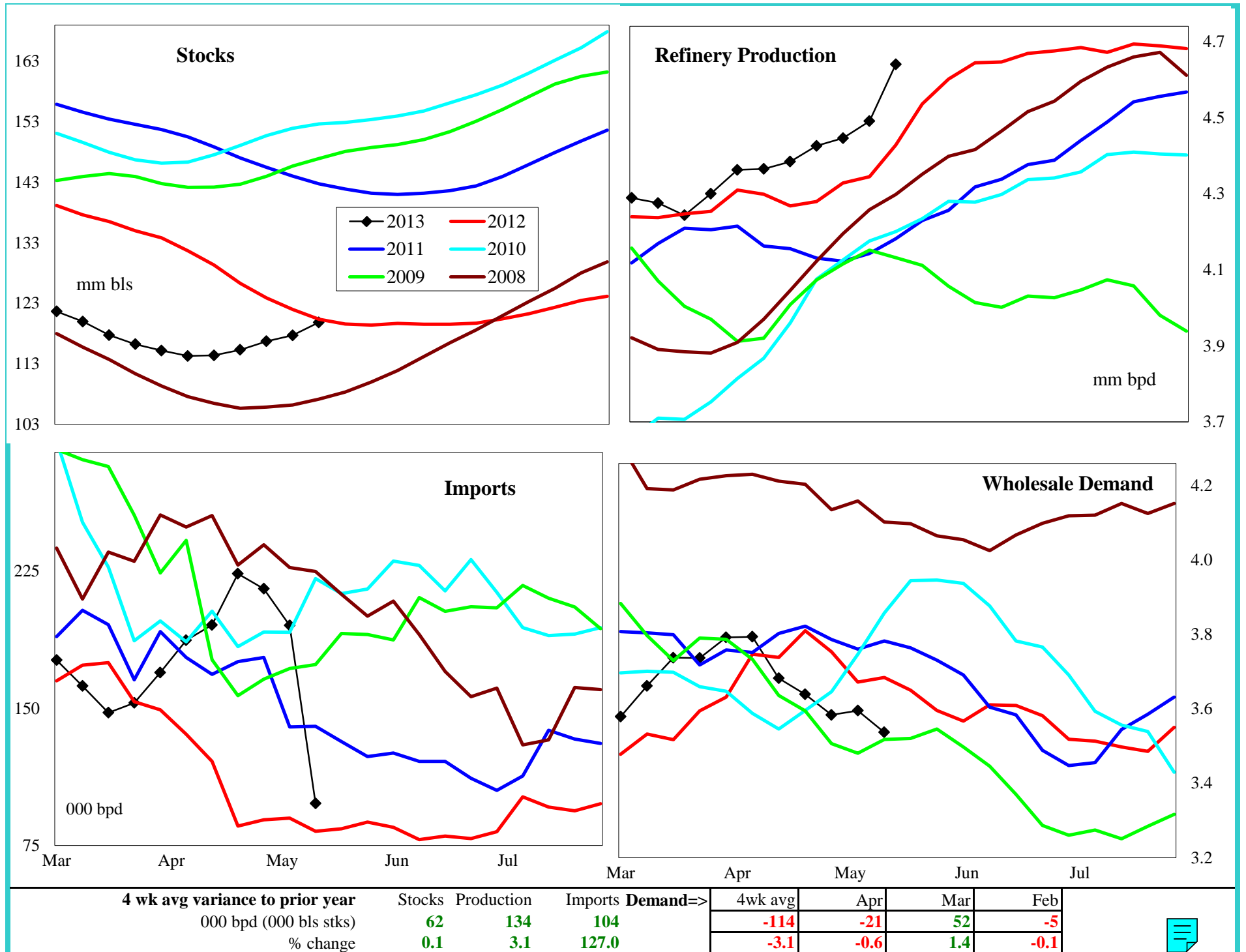
# United States Conventional Gasoline Supply



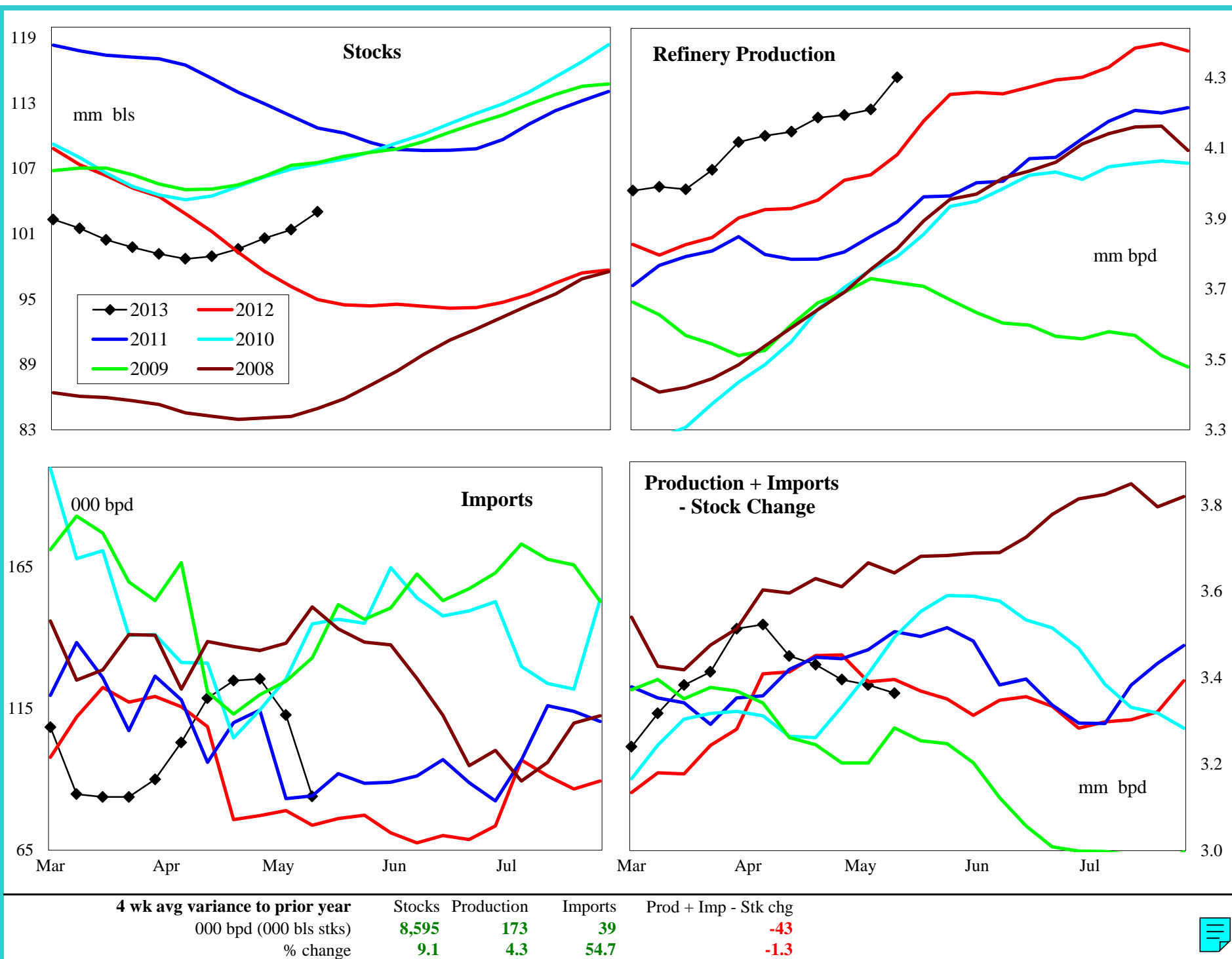
# United States Gasoline Imports by Type



# United States Distillate Supply and Demand Balance

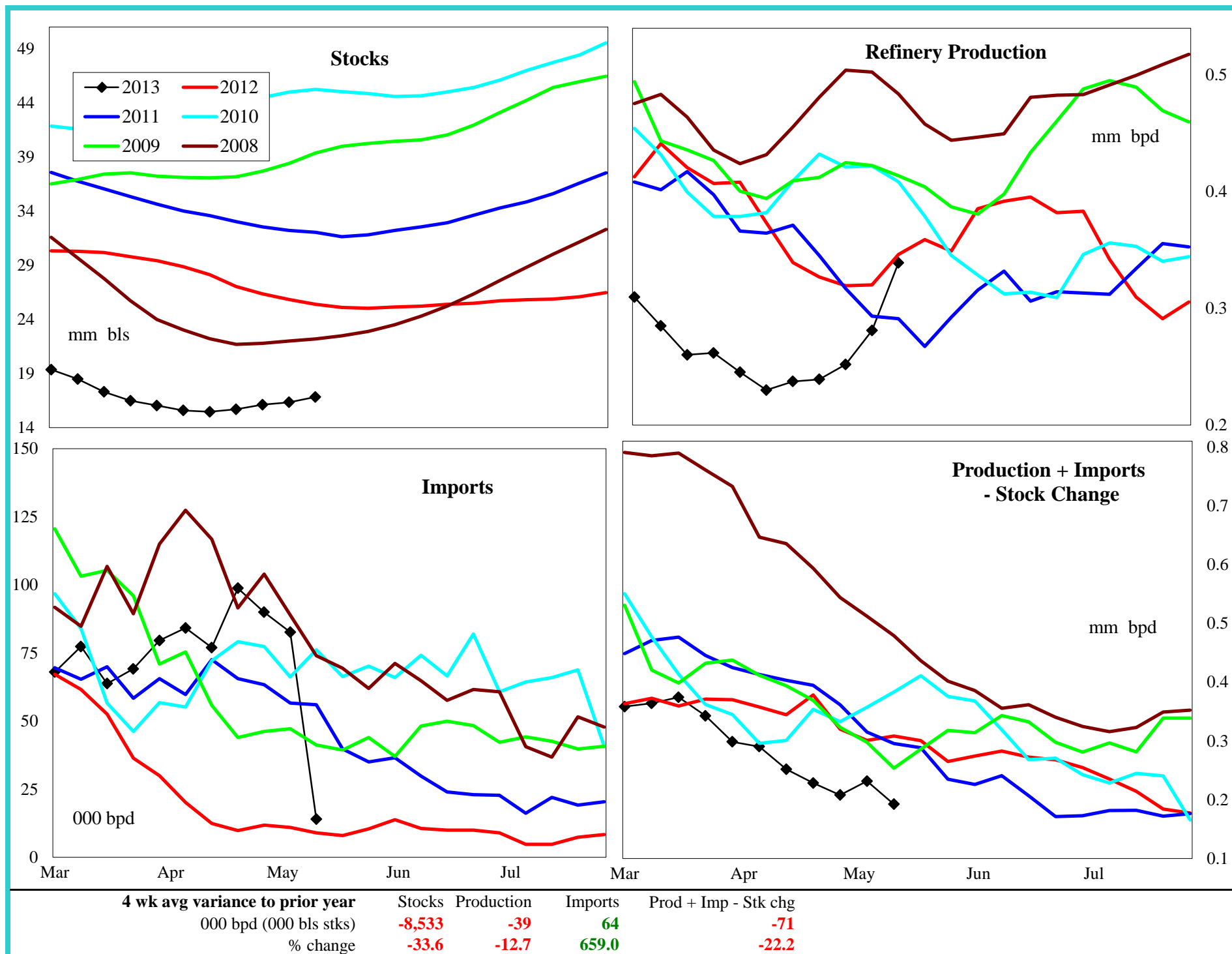


## United States Low Sulfur Distillate Supply

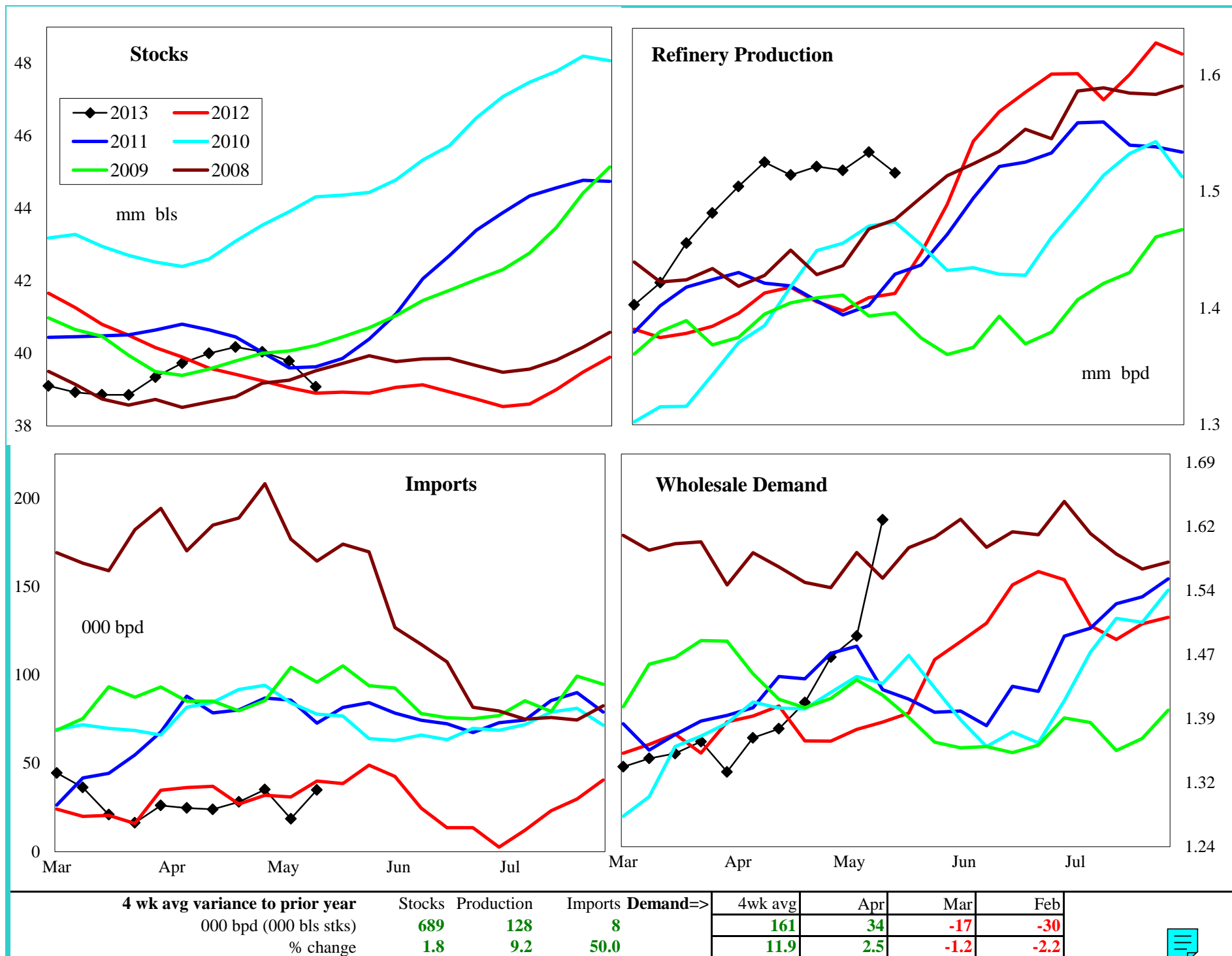




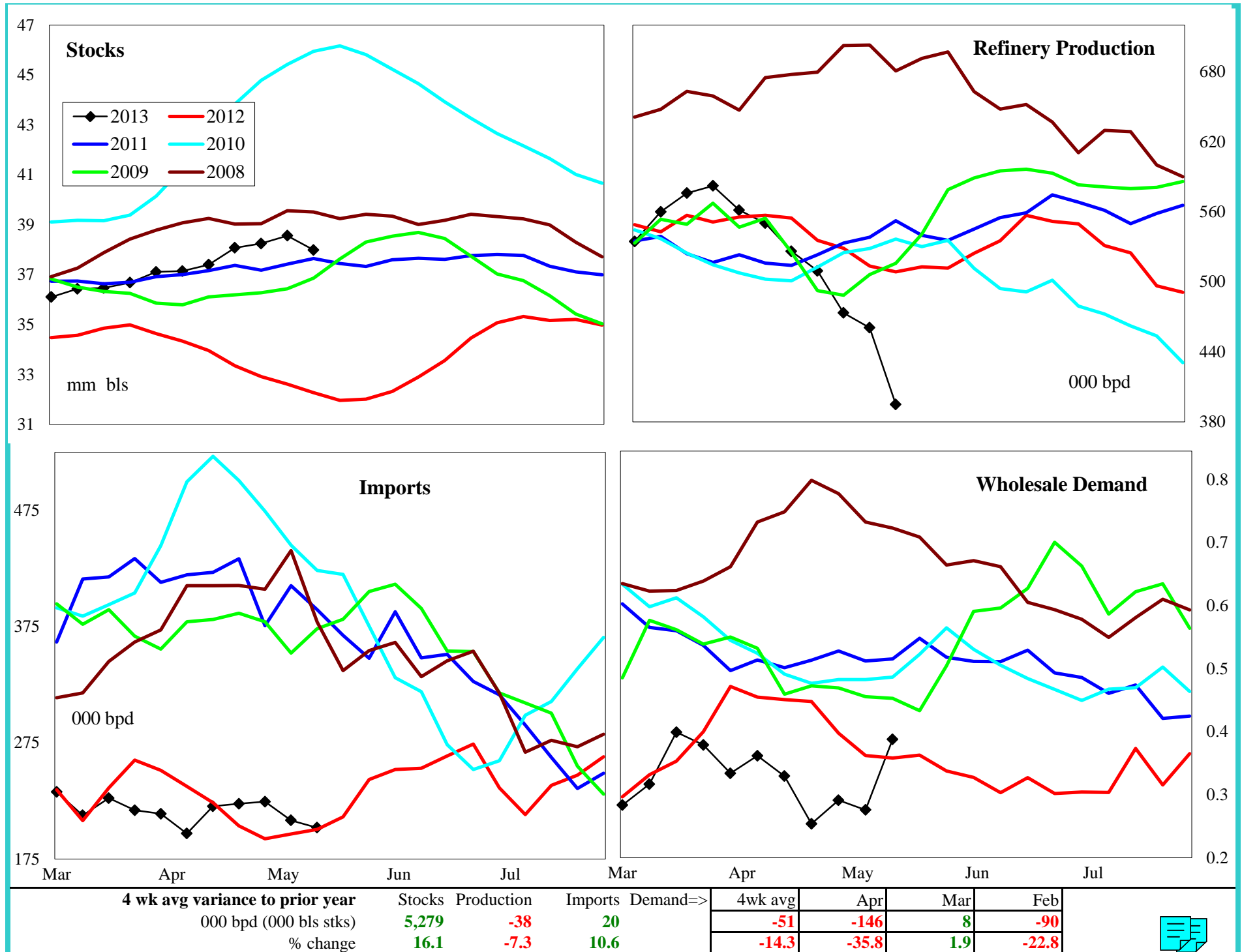
# United States High Sulfur Distillate Supply



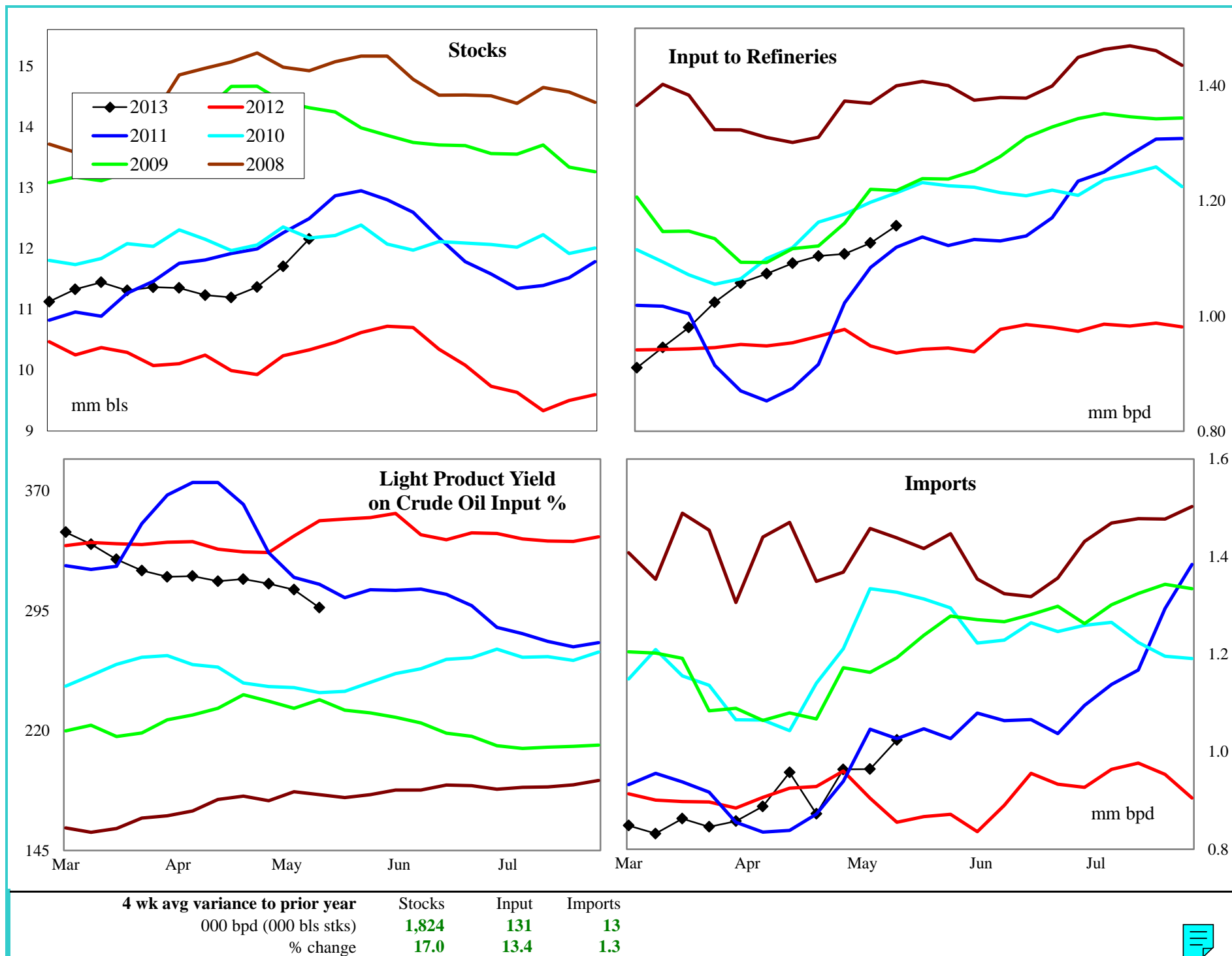
# United States Jet Fuel Supply and Demand Balance



# United States Residual Fuel Oil Supply and Demand Balance

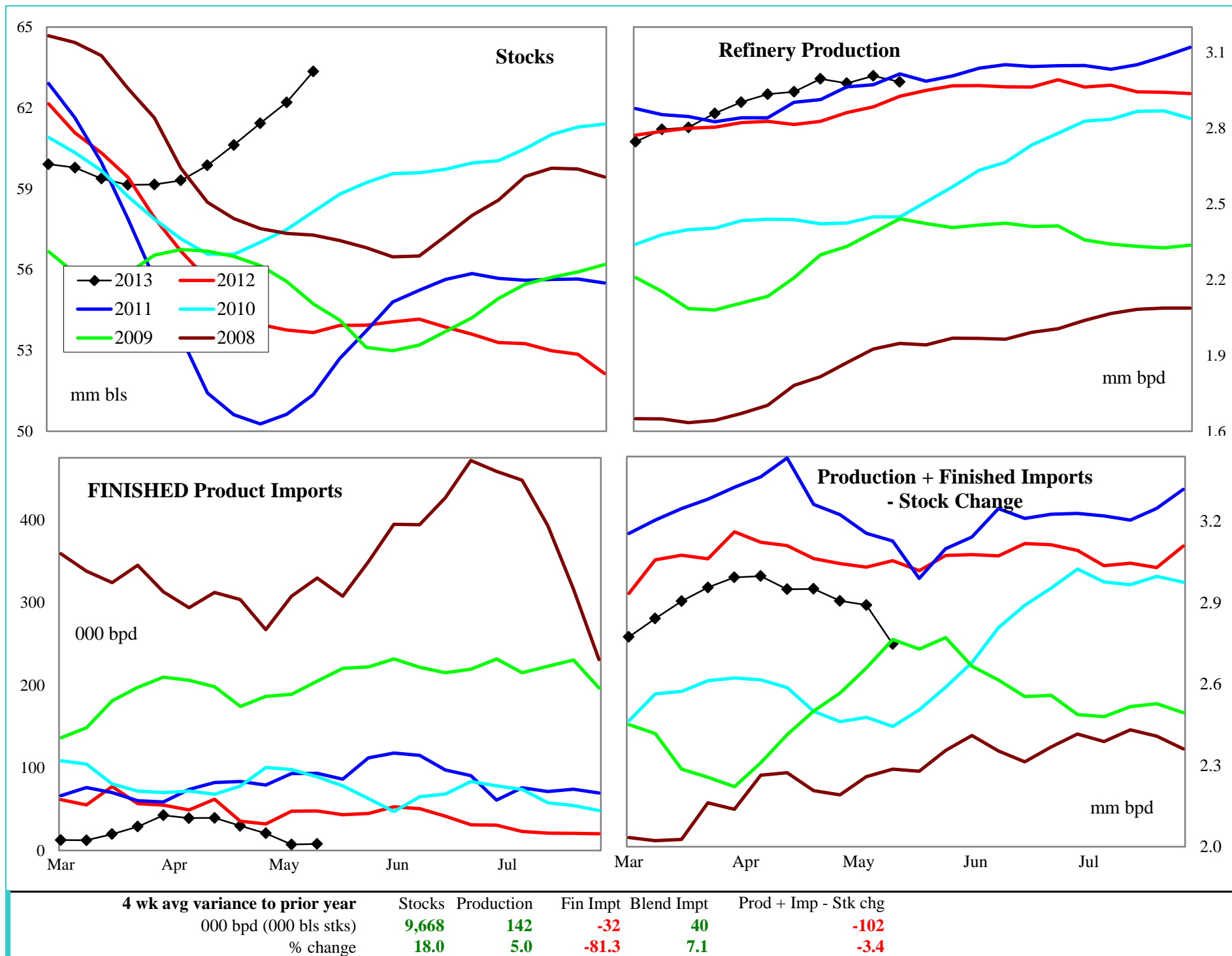


# PADD 1 Crude Oil Supply and Refining

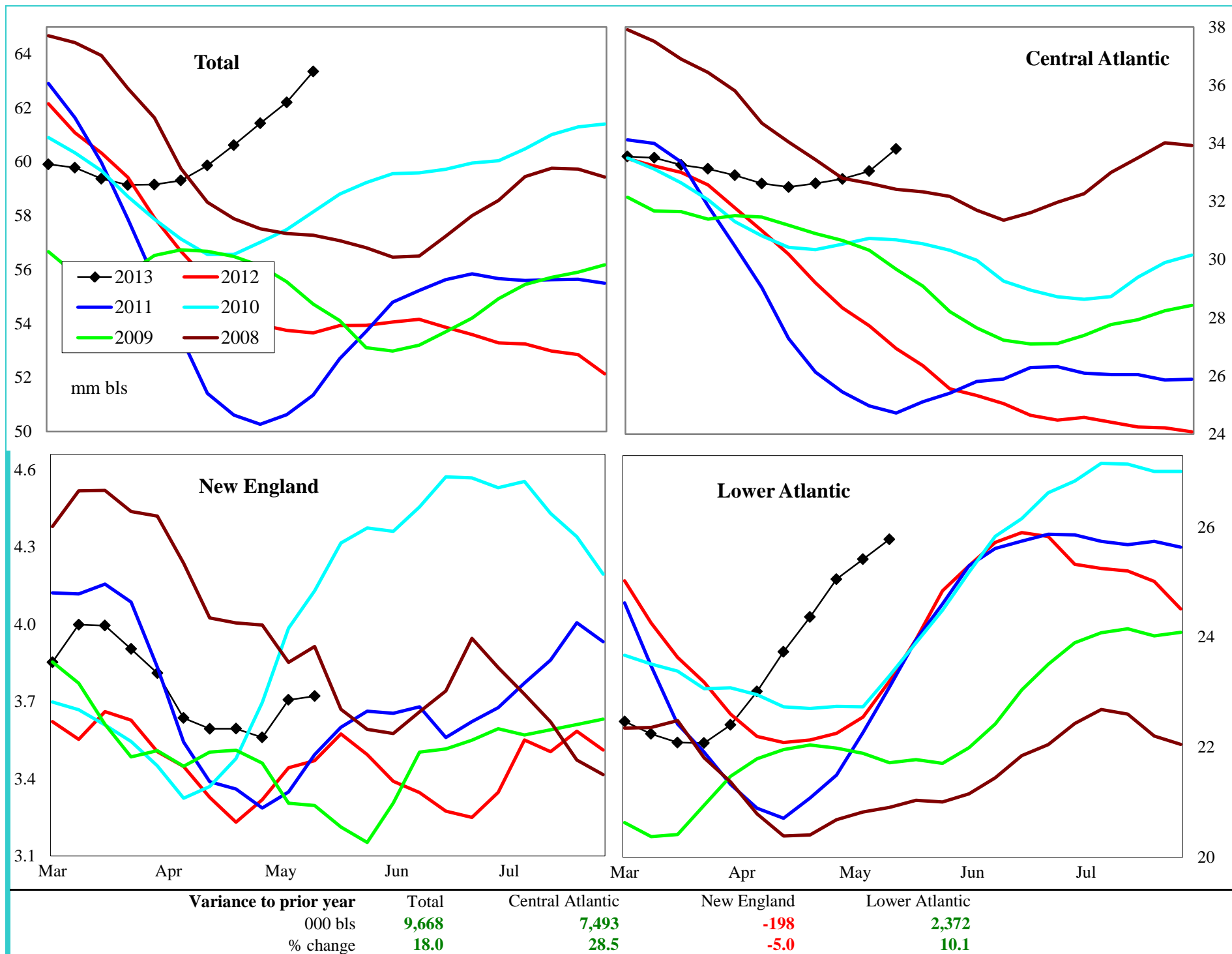




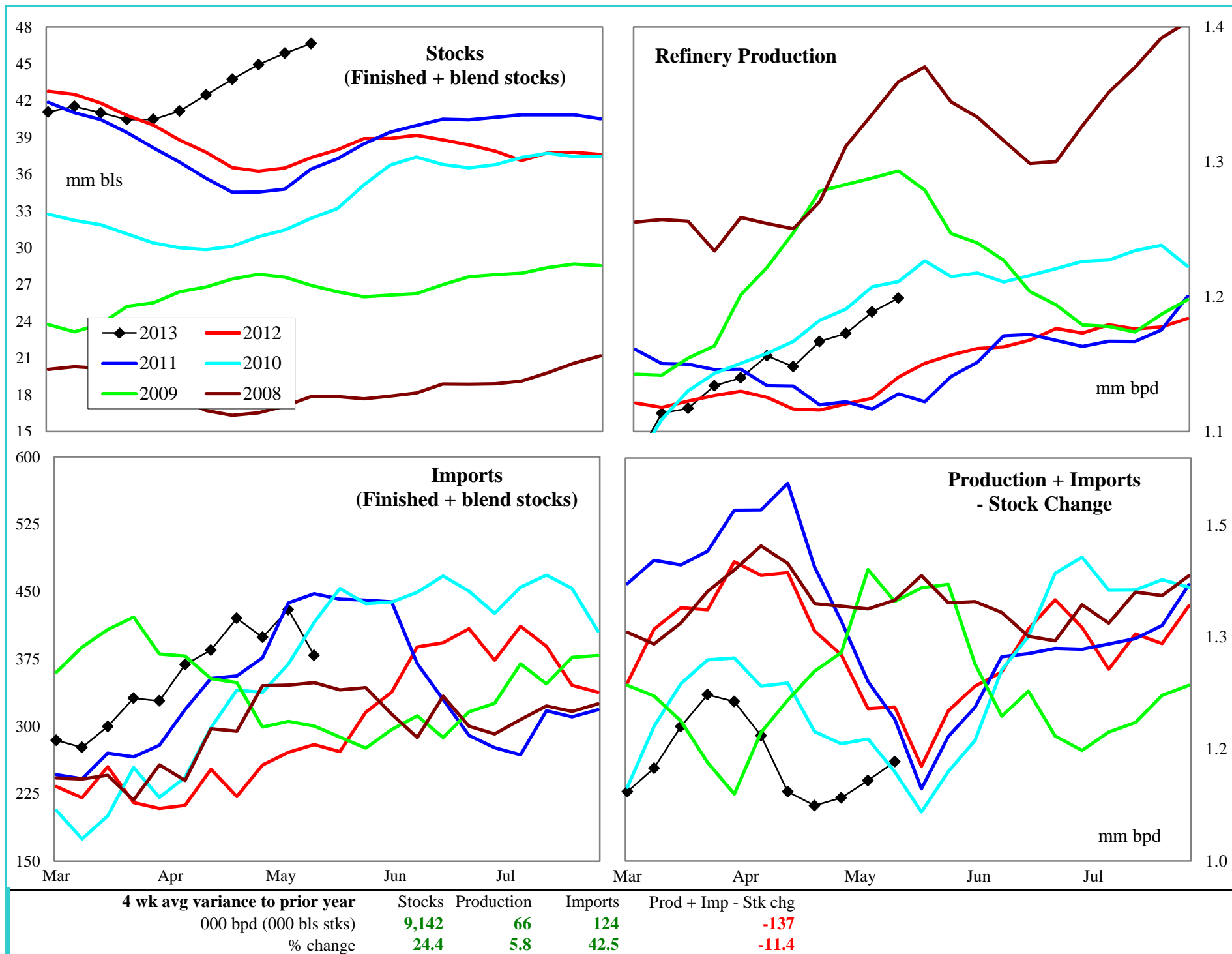
## PADD 1 Gasoline Supply



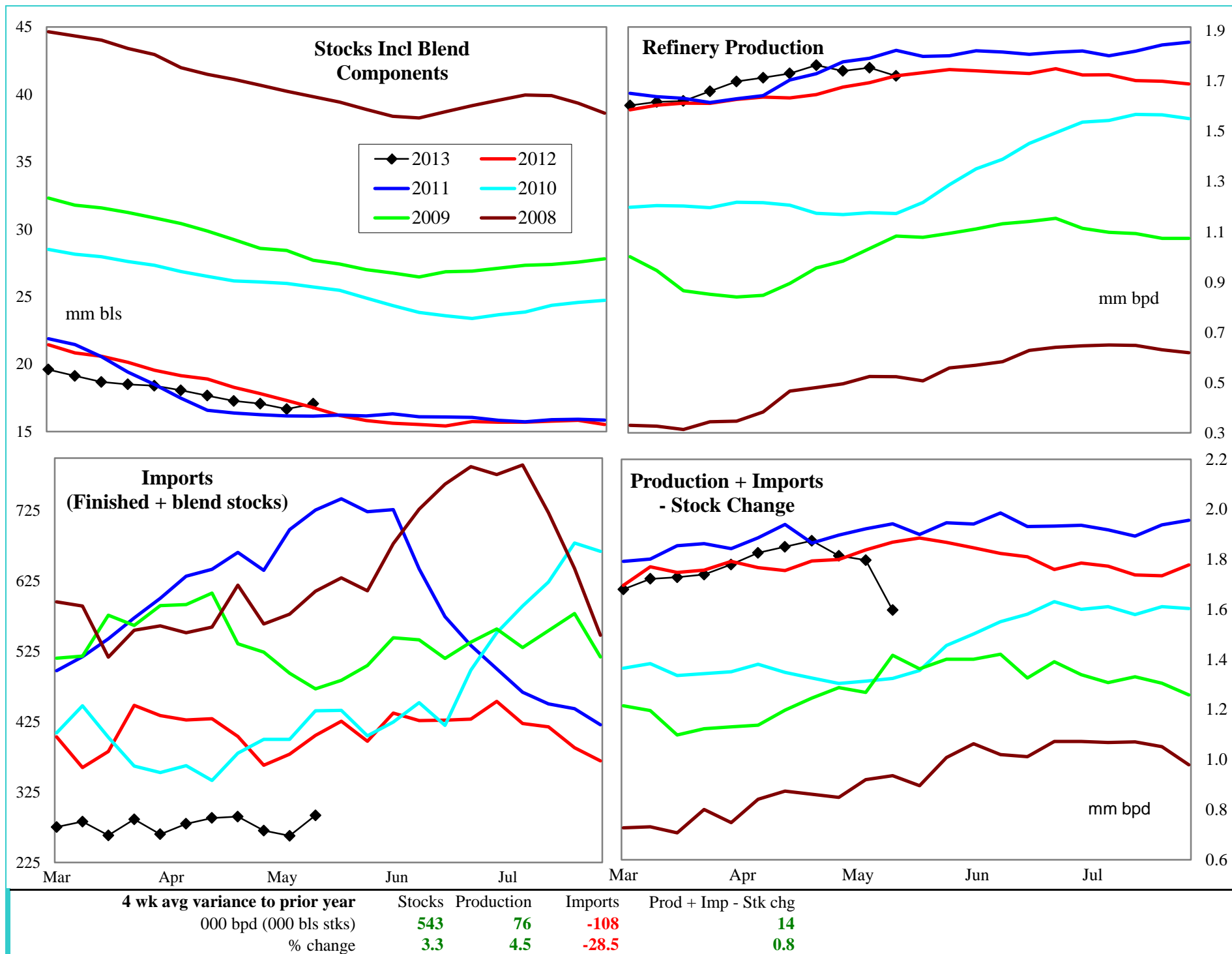
## PADD 1 Gasoline Stocks by Region



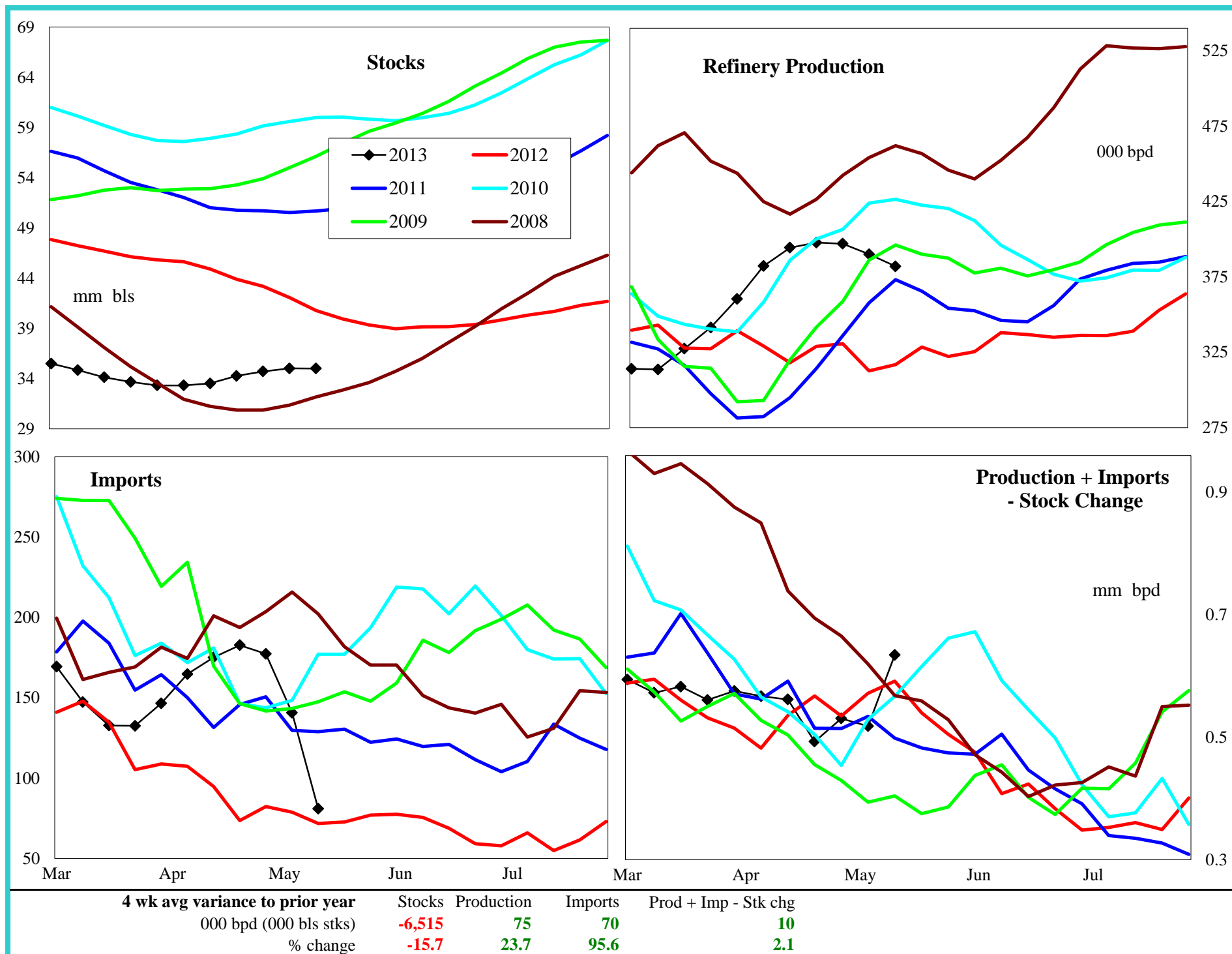
# PADD 1 Reformulated Gasoline Supply



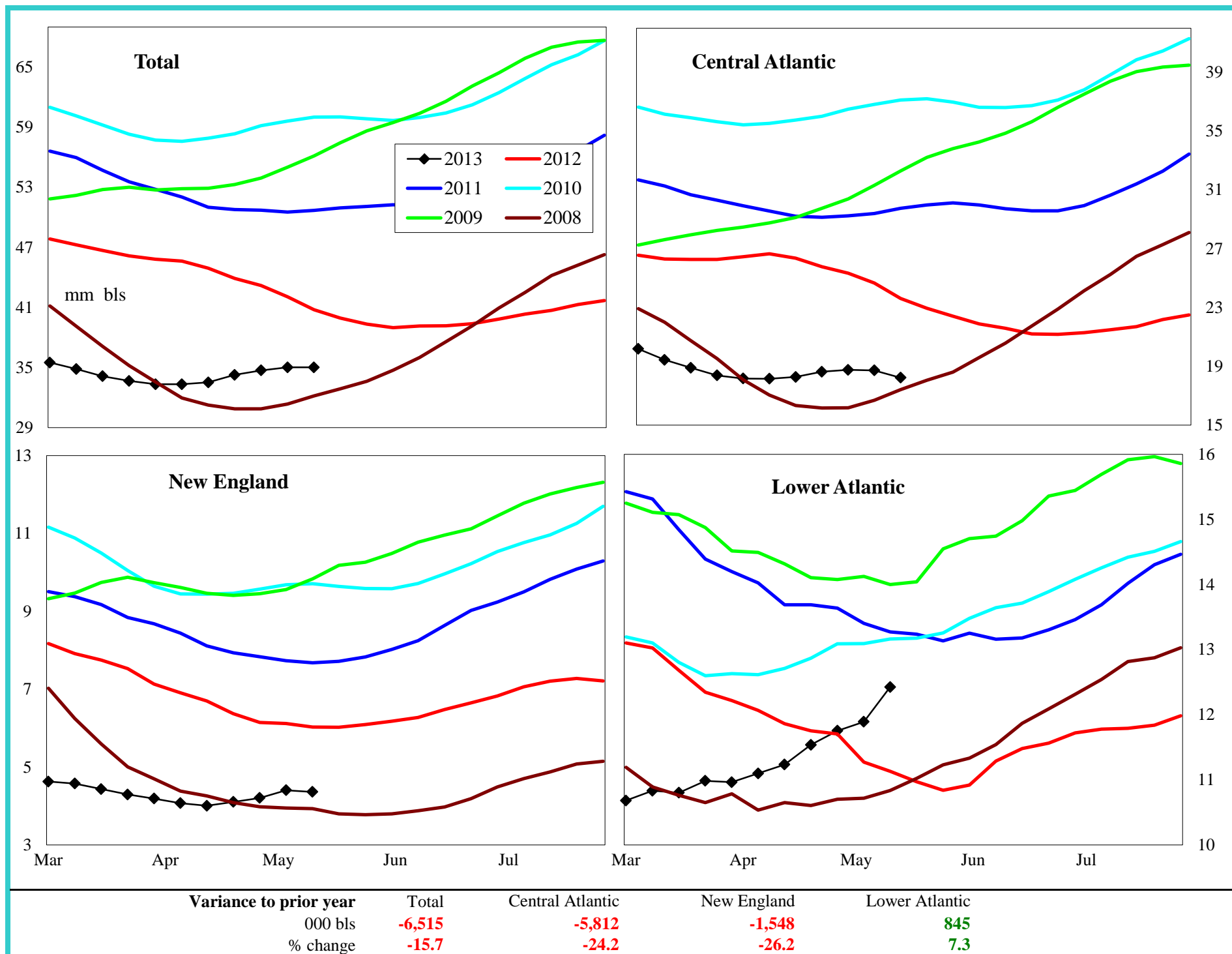
# PADD 1 Conventional Gasoline Supply



## PADD 1 Distillate Supply

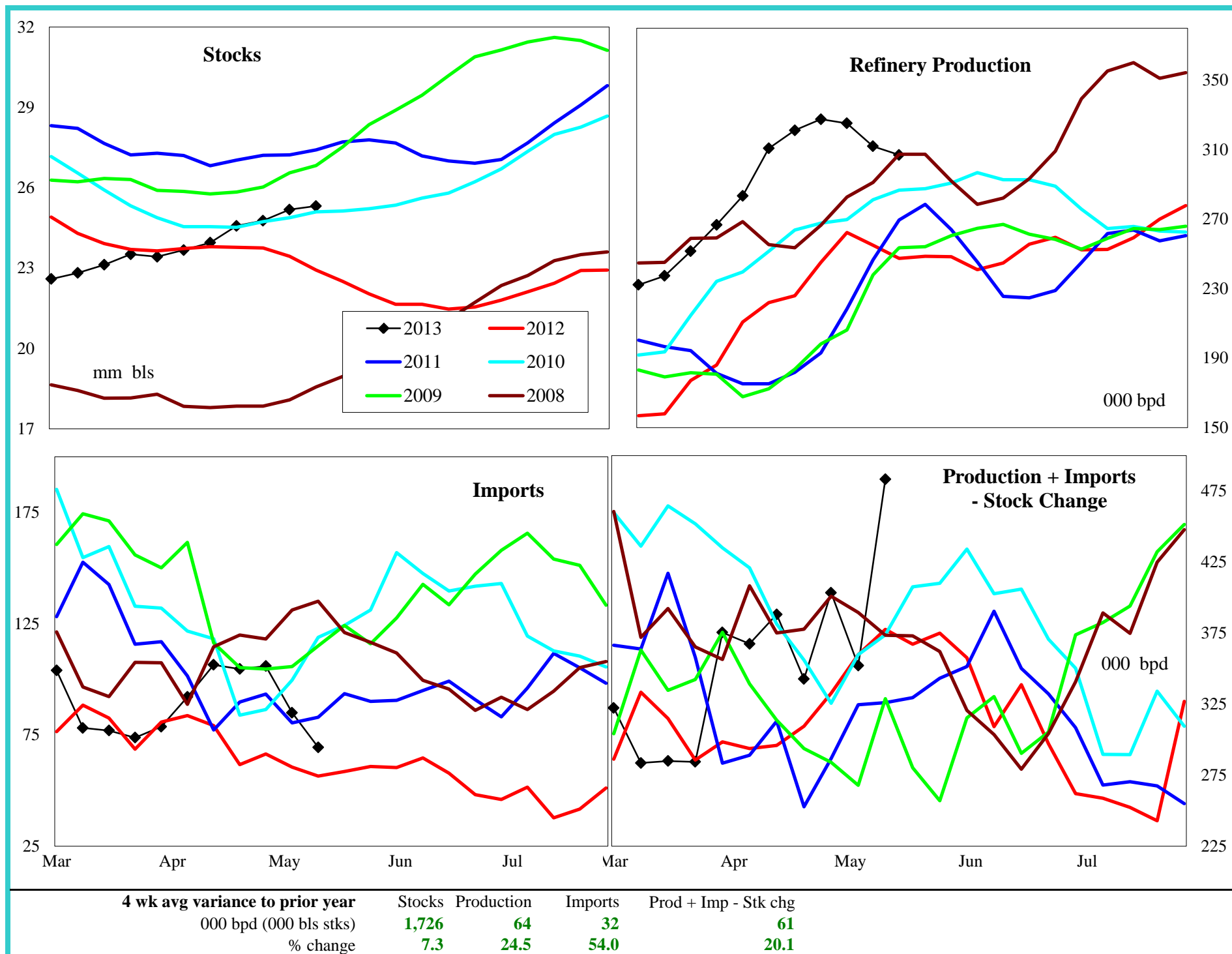


# PADD 1 Distillate Stocks by Region

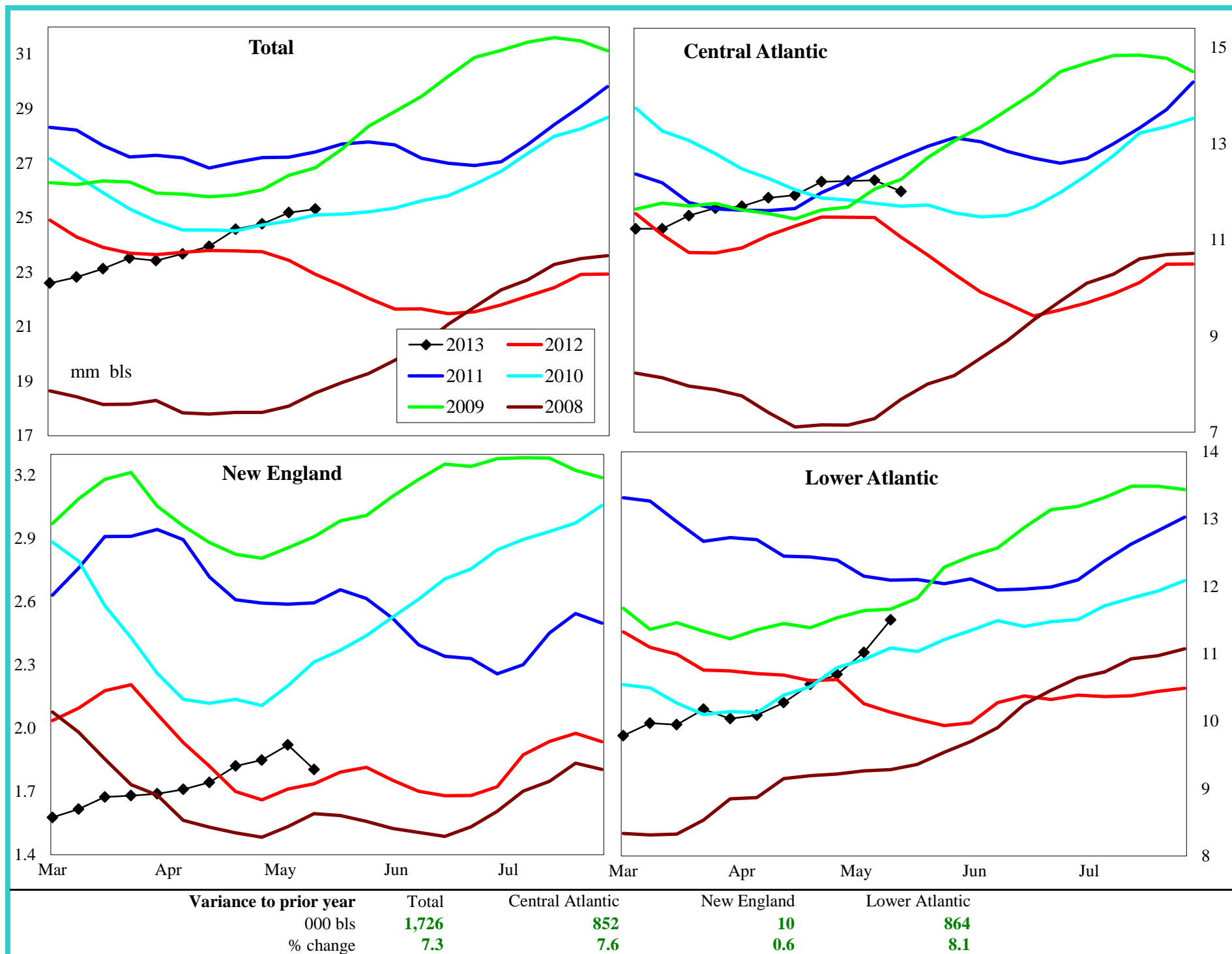




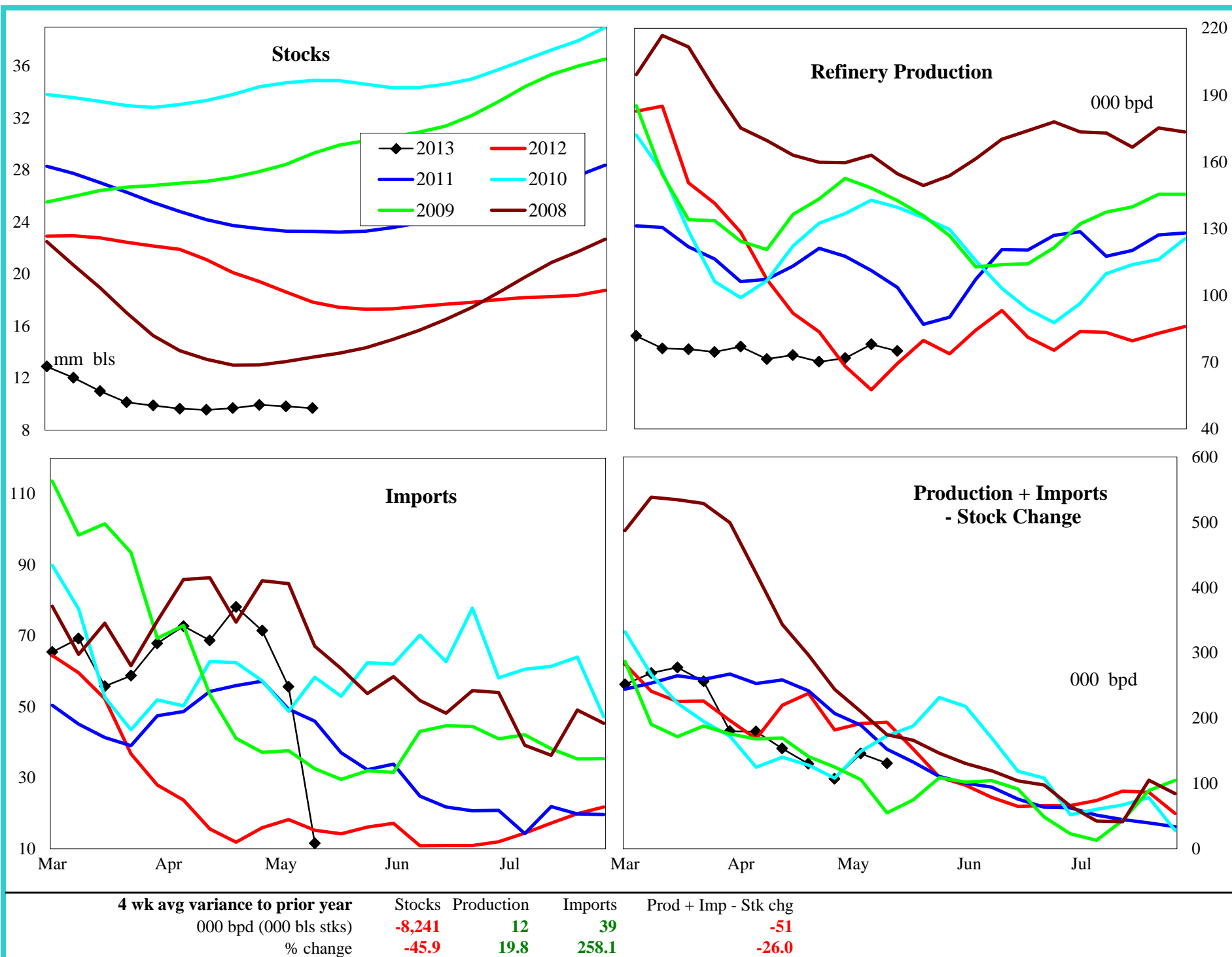
# PADD 1 Low Sulfur Distillate Supply



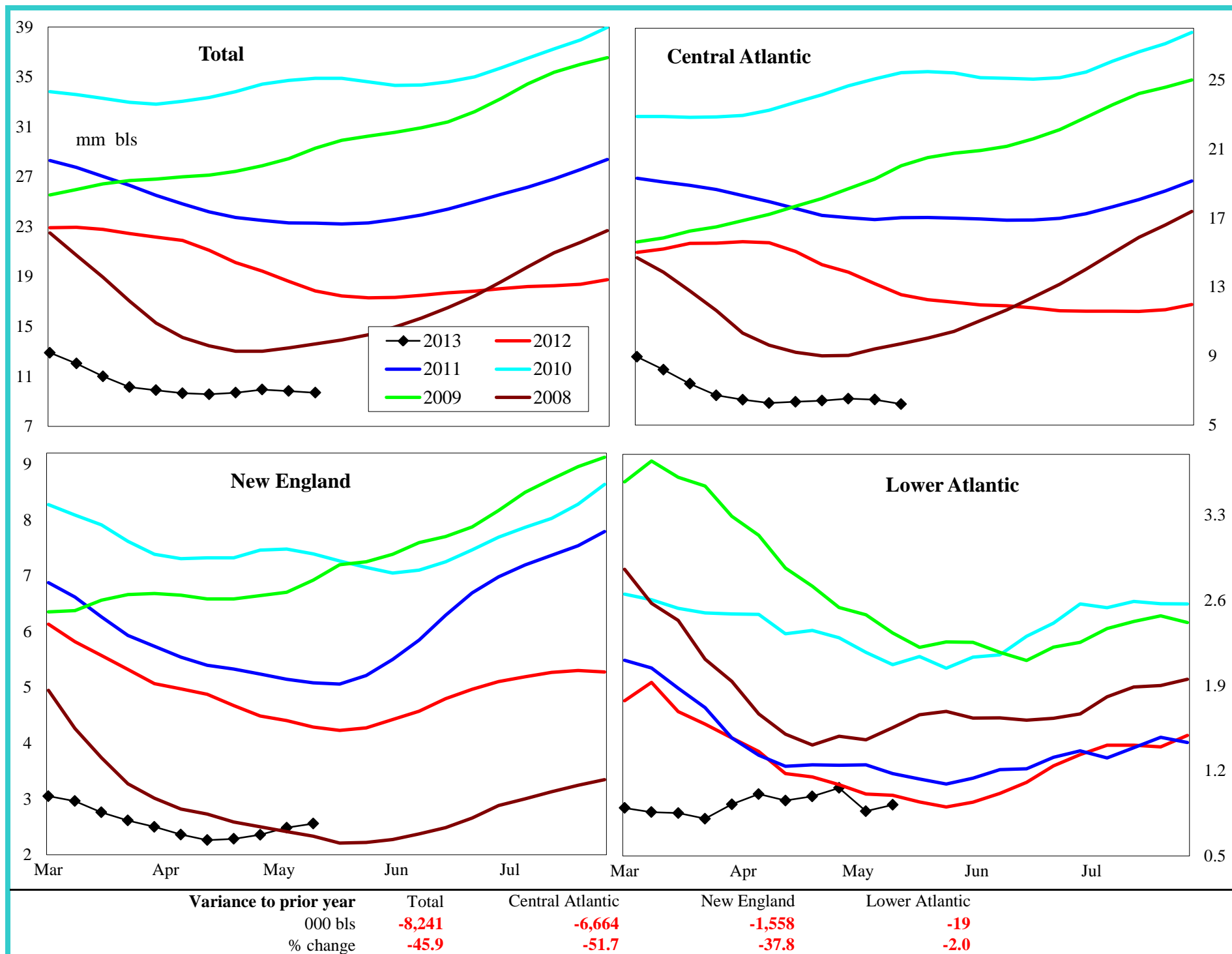
## PADD 1 Low Sulfur Distillate Stocks by Region



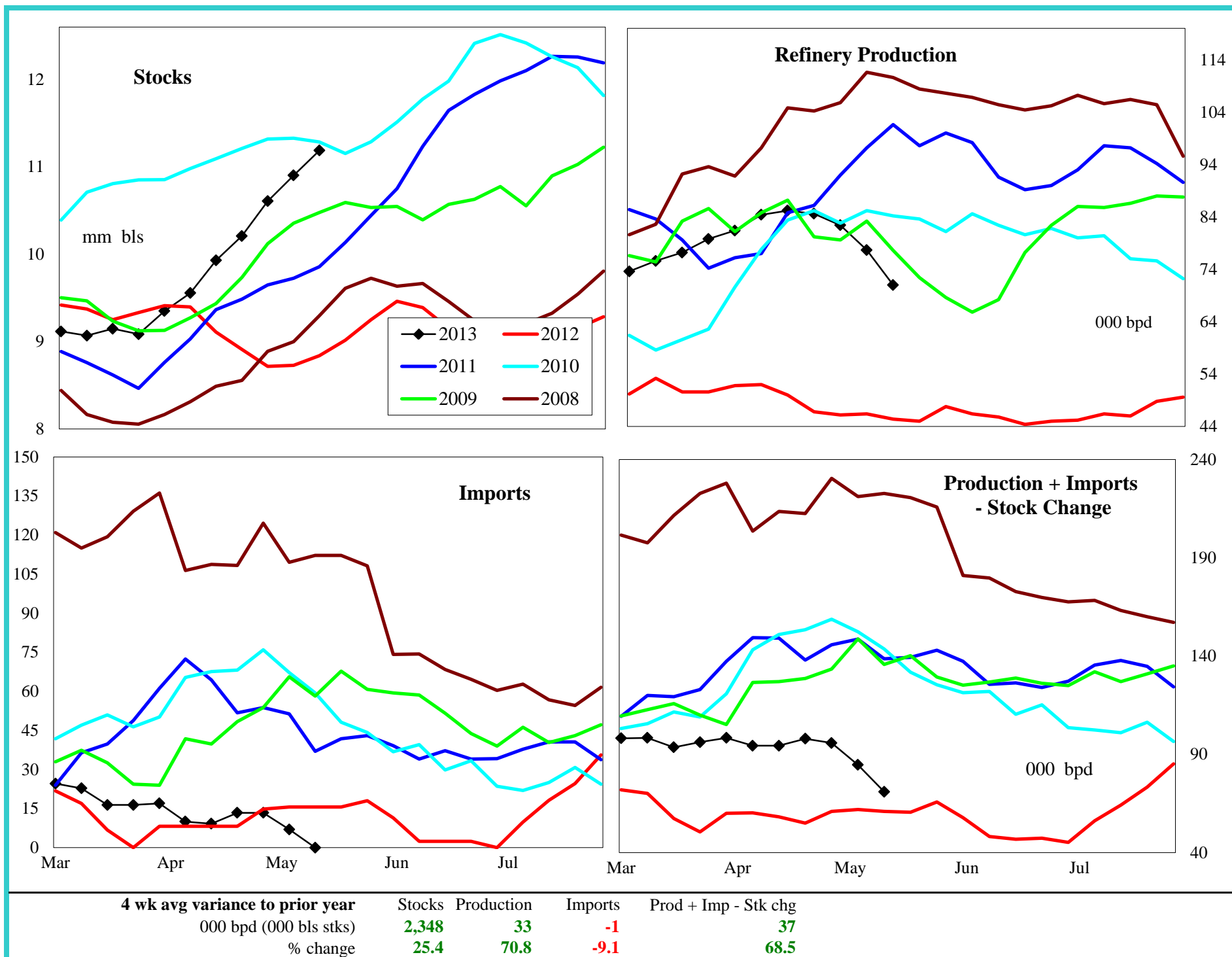
# PADD 1 High Sulfur Distillate Supply



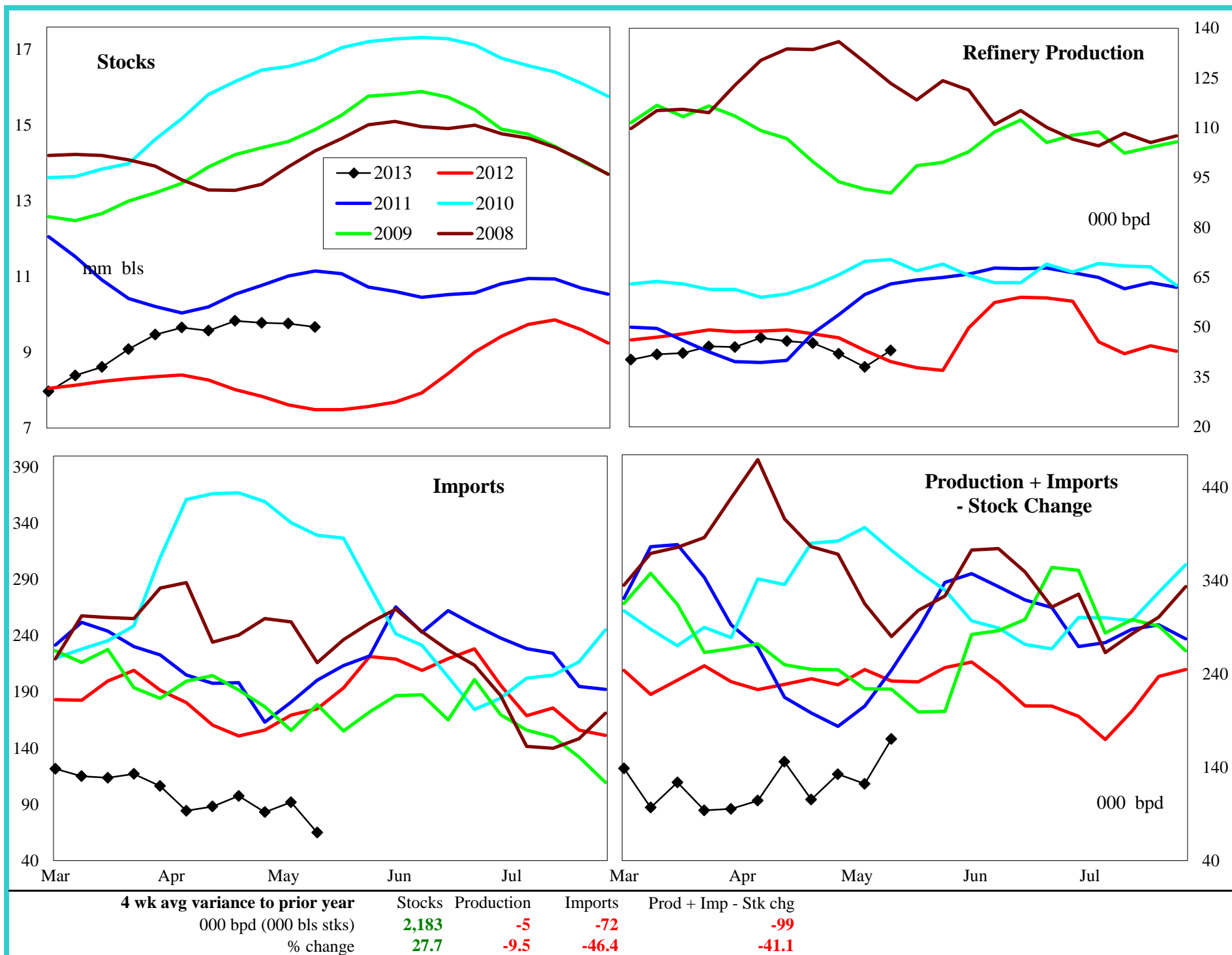
# PADD 1 High Sulfur Distillate Stocks by Region



## PADD 1 Jet Fuel Supply

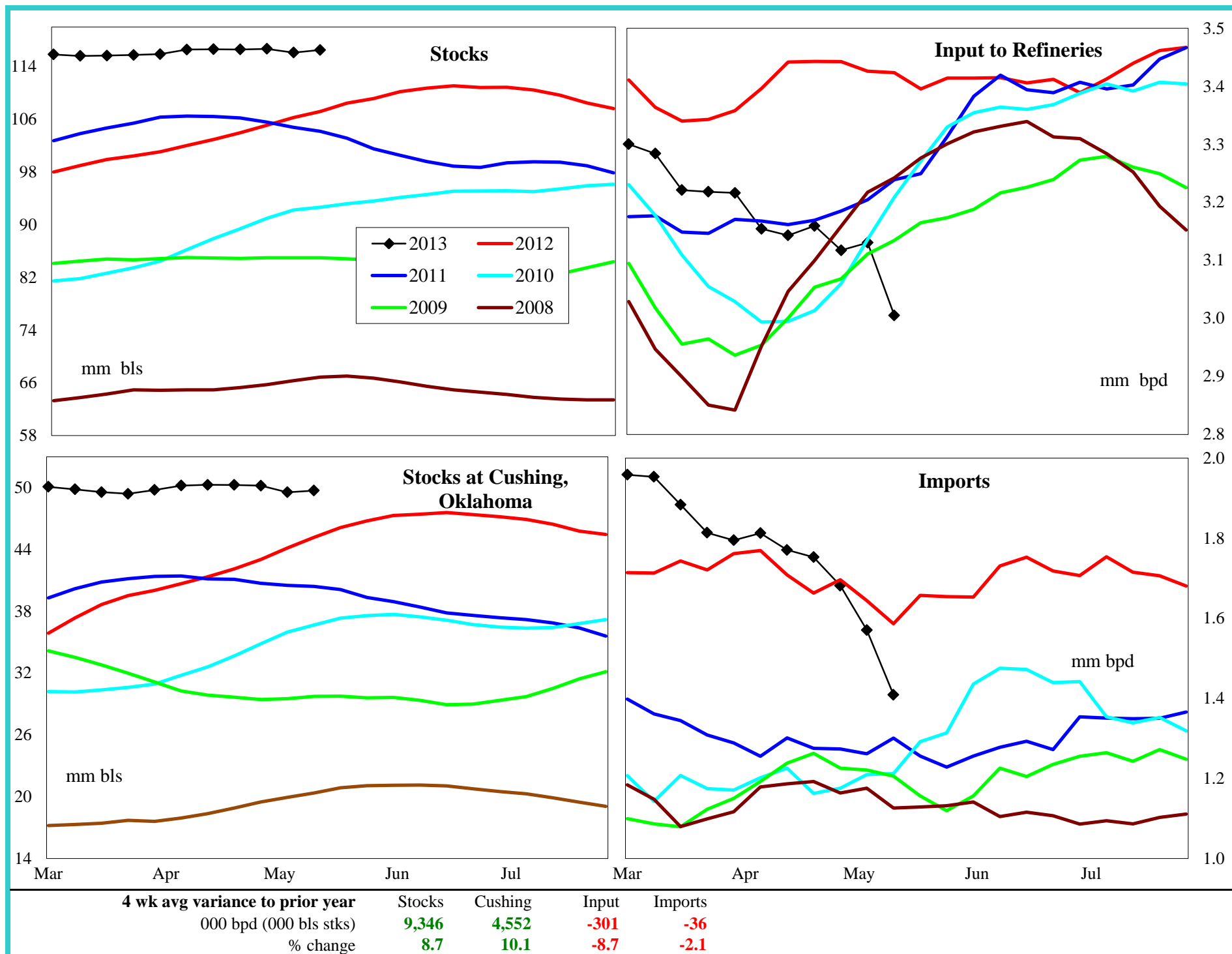


## PADD 1 Residual Fuel Oil Supply

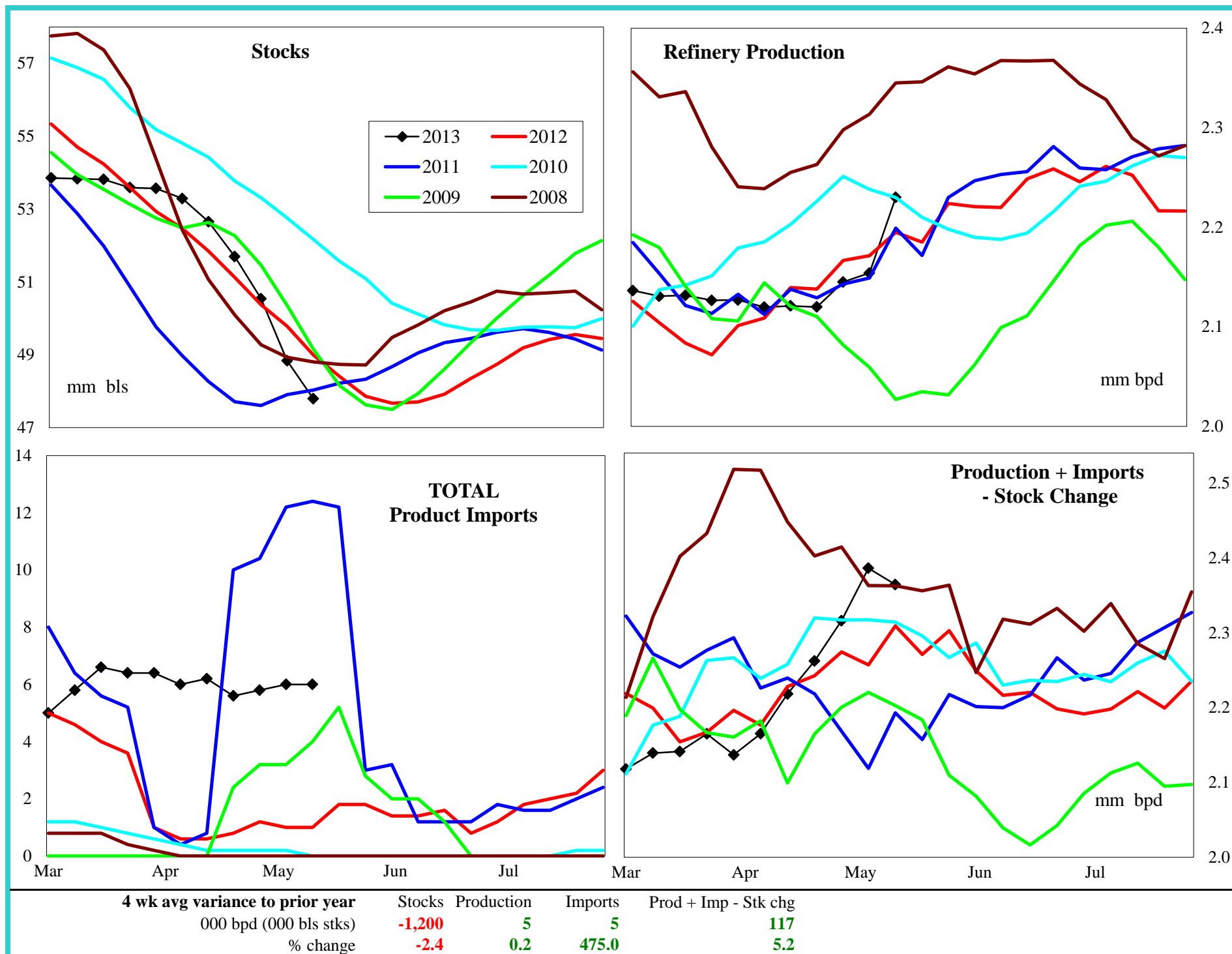




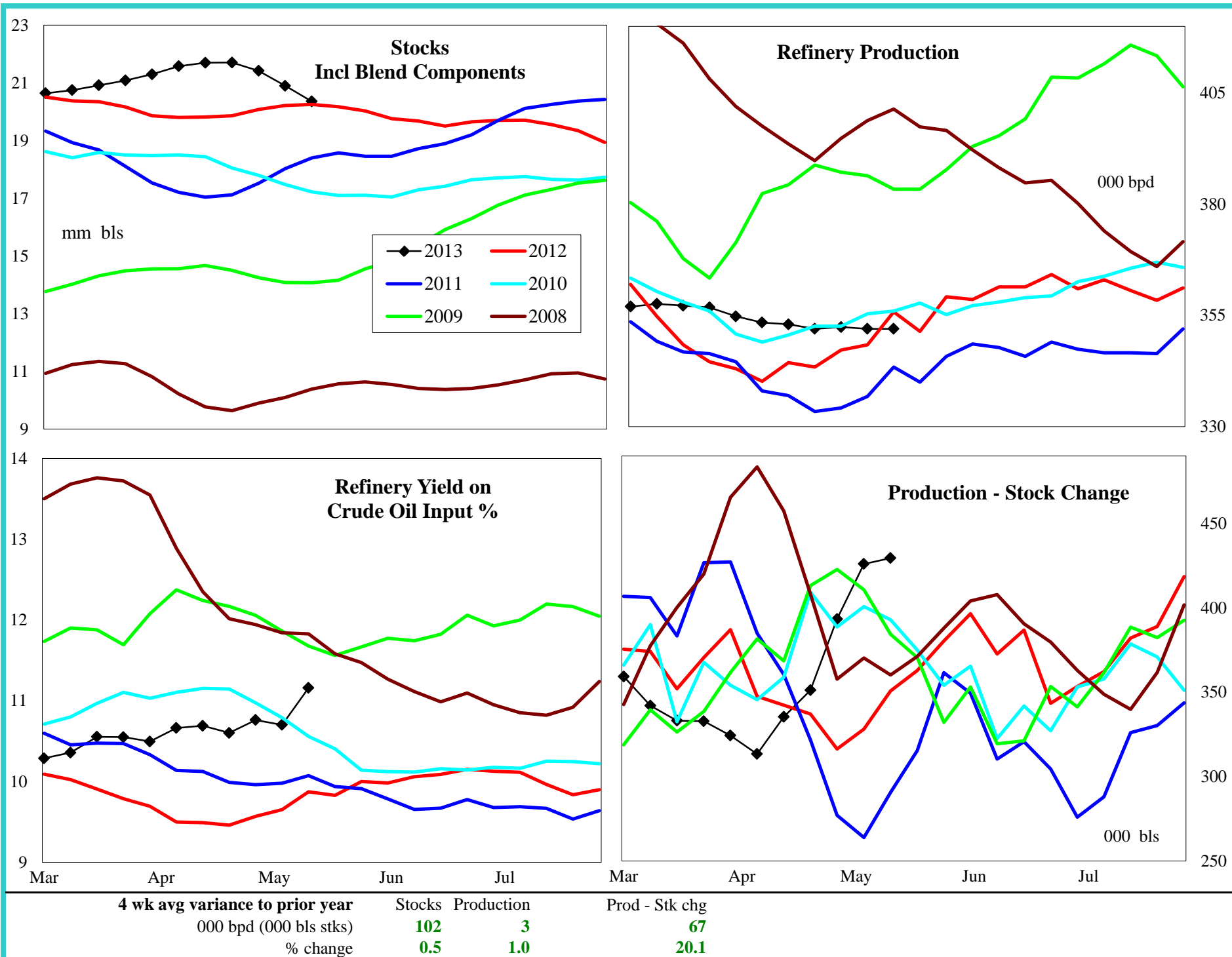
## PADD 2 Crude Oil Supply and Refining



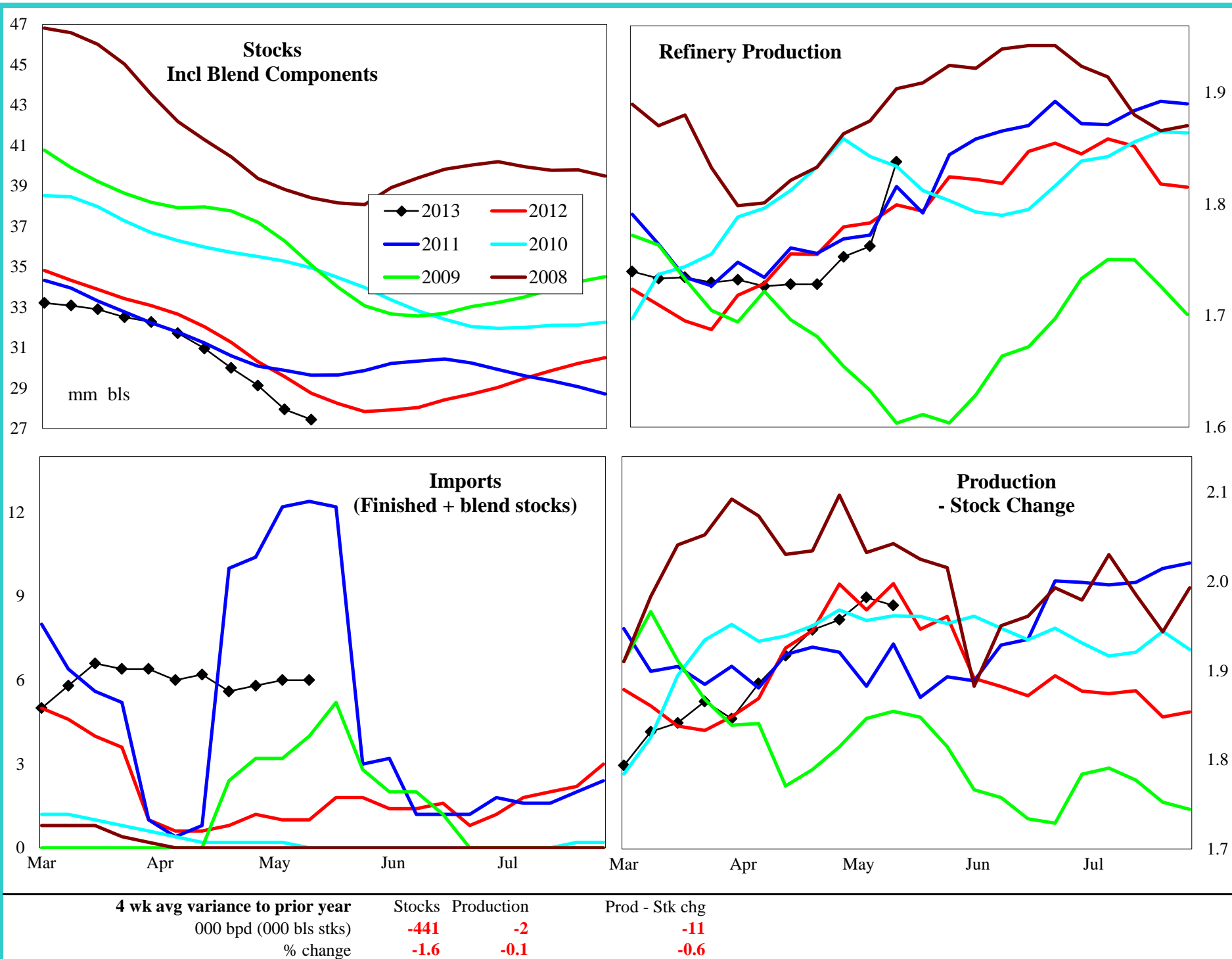
## PADD 2 Gasoline Supply



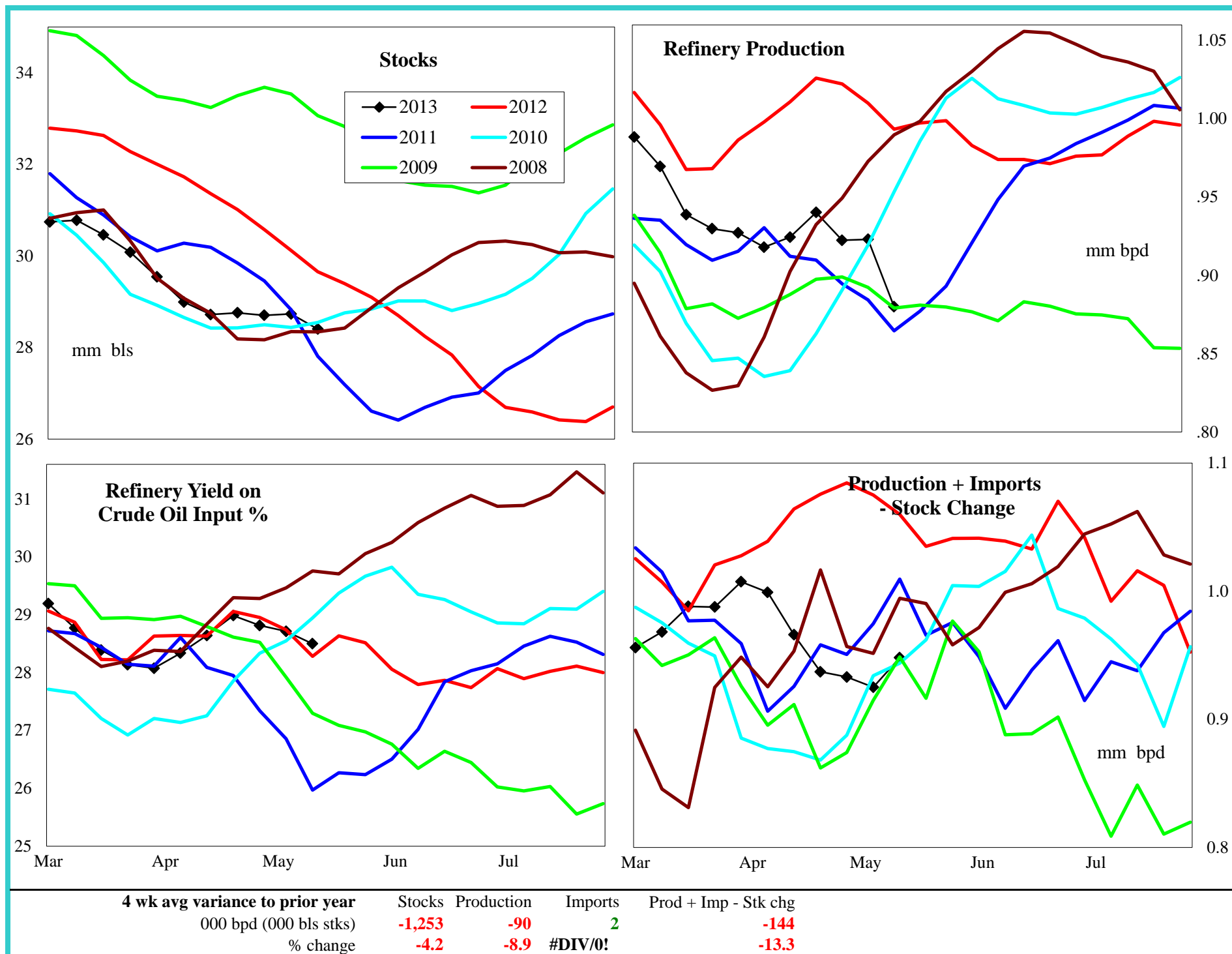
# PADD 2 Reformulated Gasoline Supply



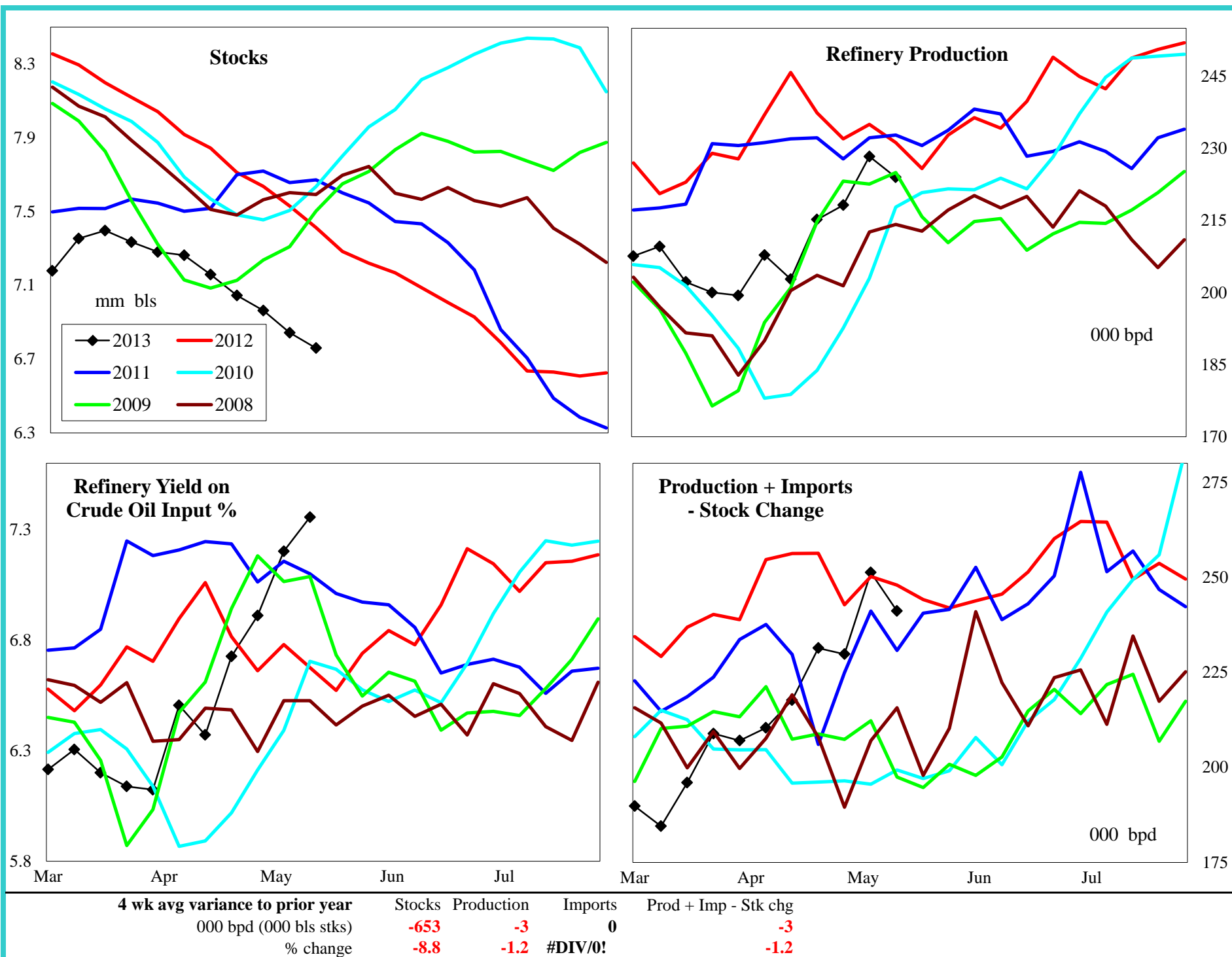
# PADD 2 Conventional Gasoline Supply



## PADD 2 Distillate Supply

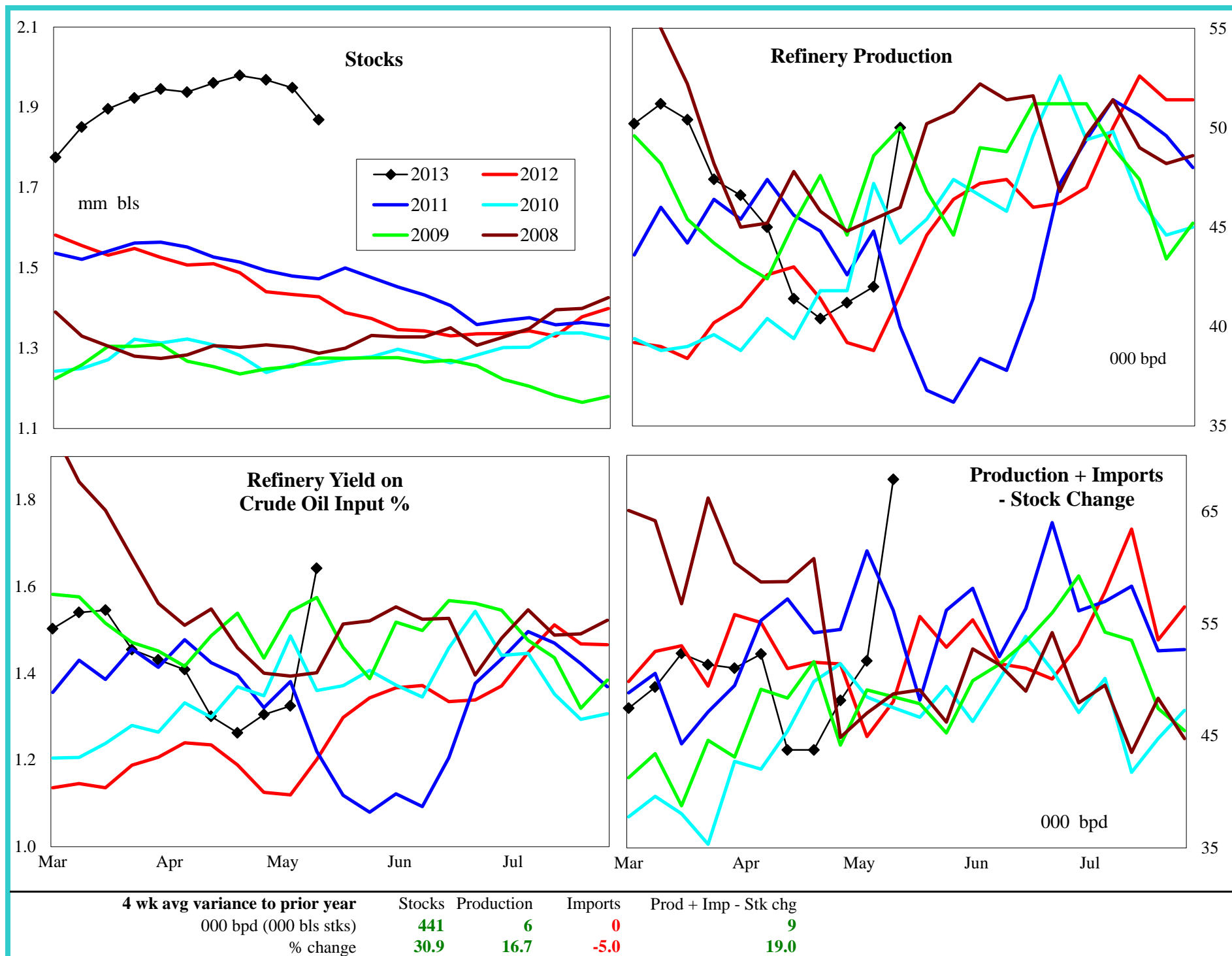


## PADD 2 Jet Fuel Supply

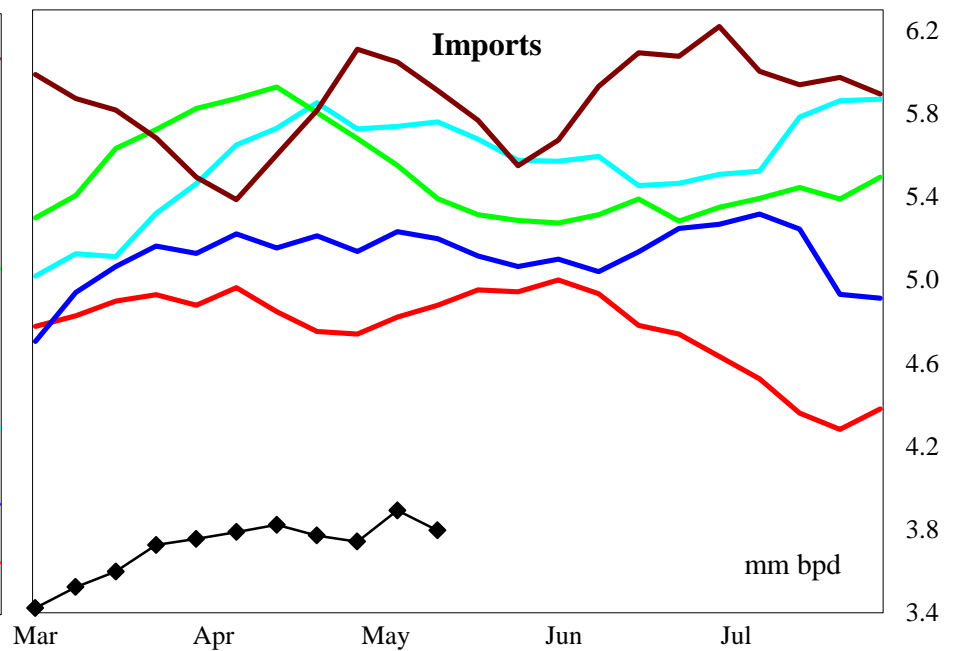
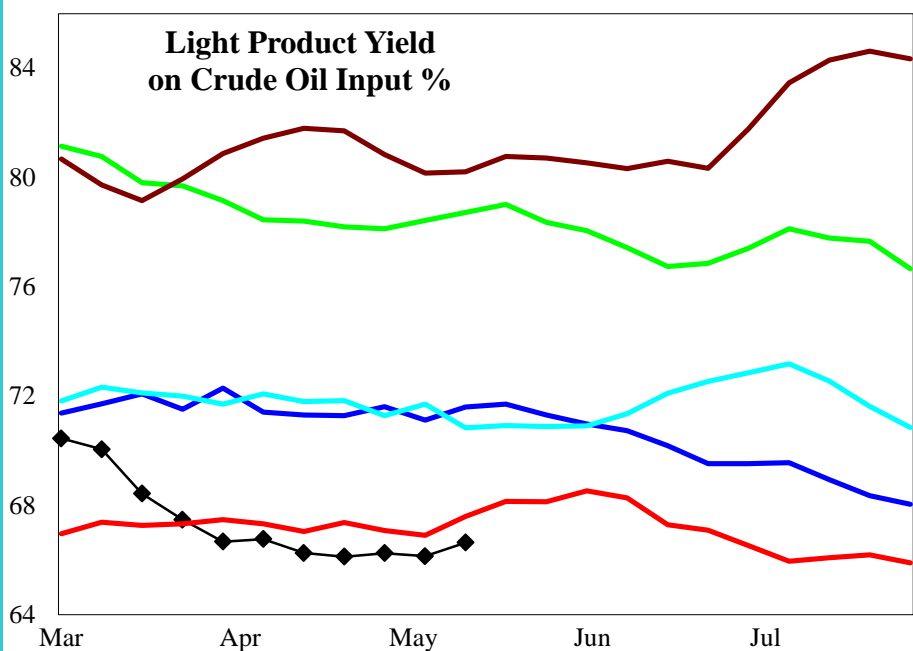
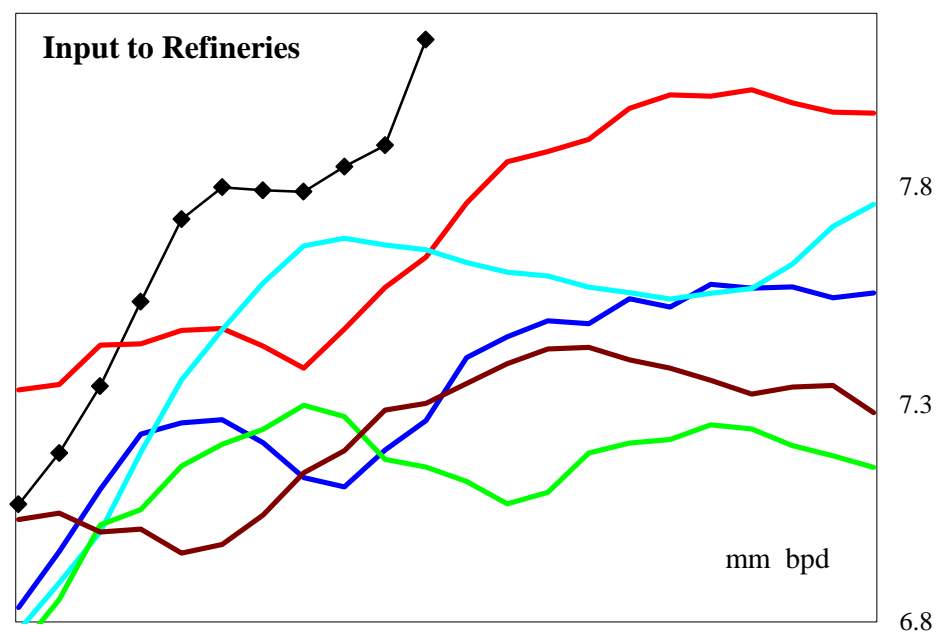
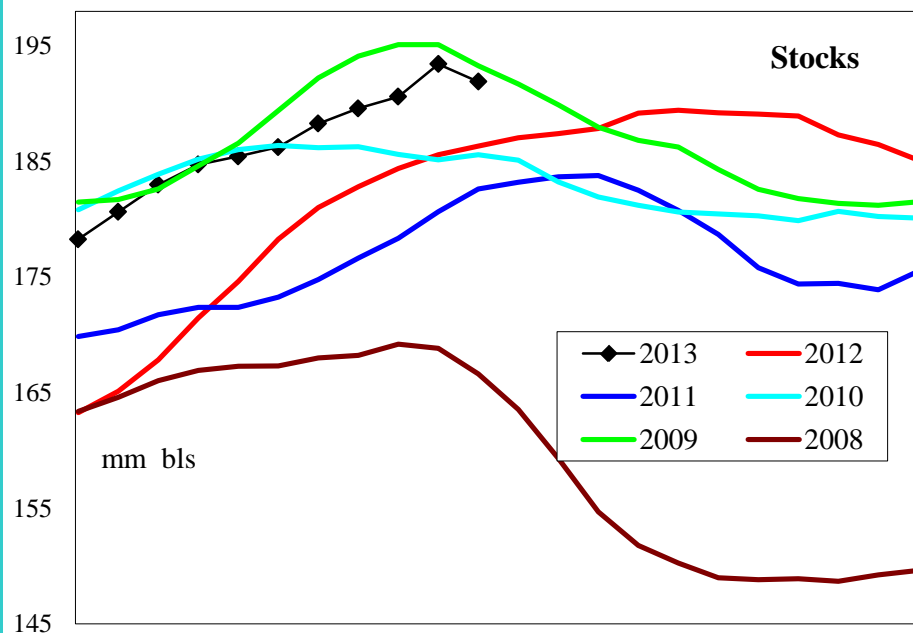




## PADD 2 Residual Fuel Oil Supply



# PADD 3 Crude Oil Supply and Refining



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

5,579

3.0

Input

287

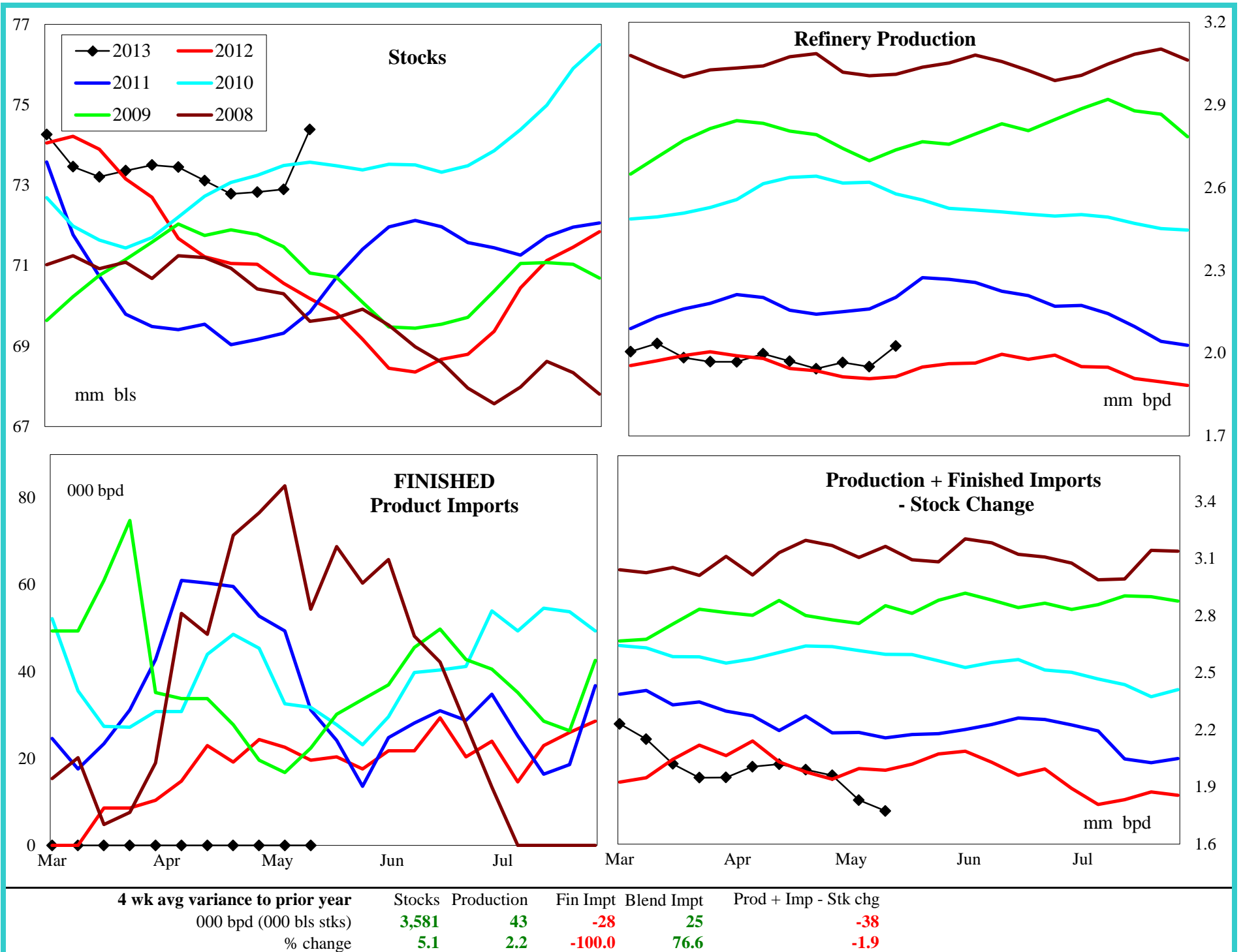
3.8

Imports

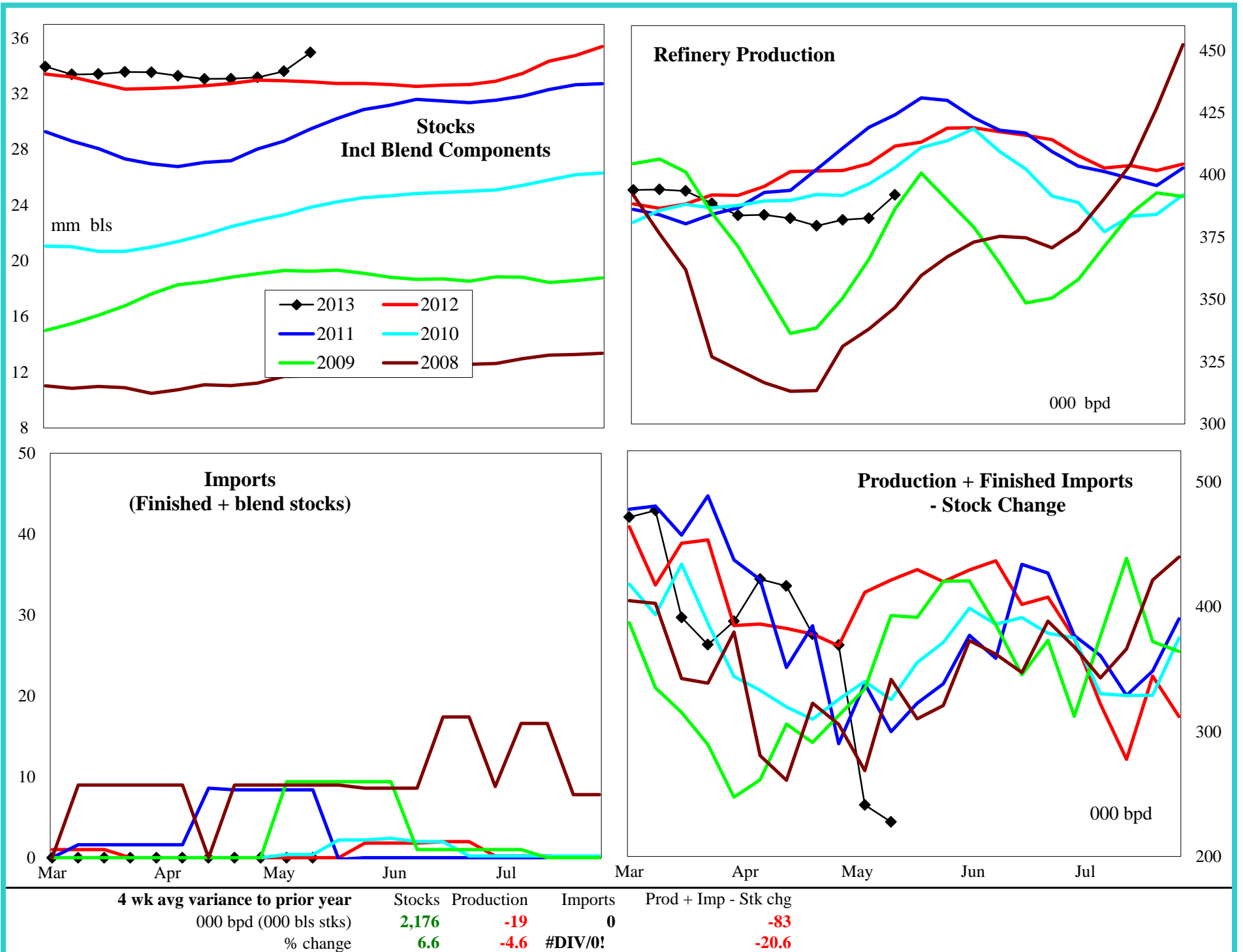
-958

-20.2

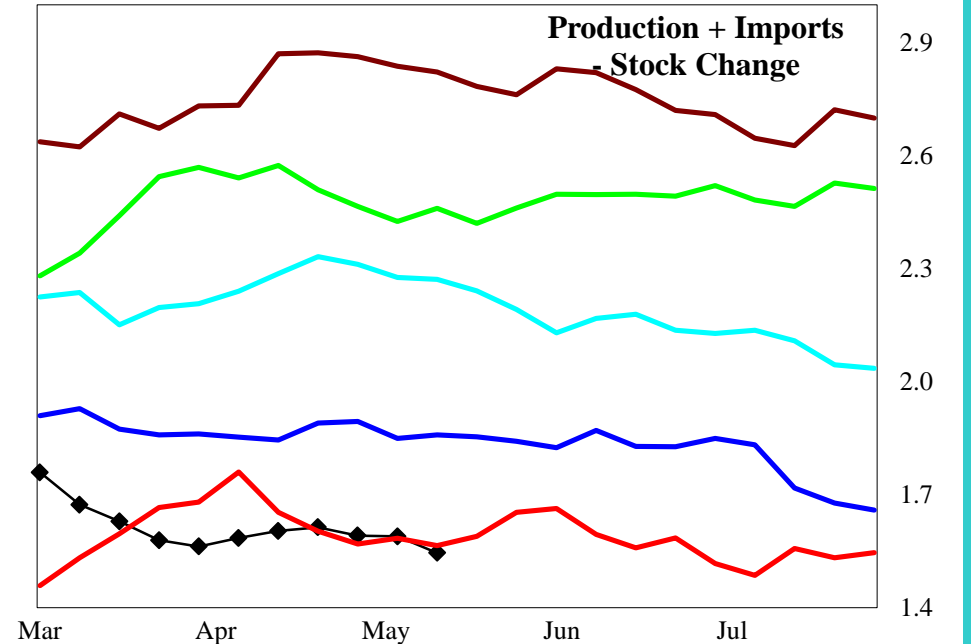
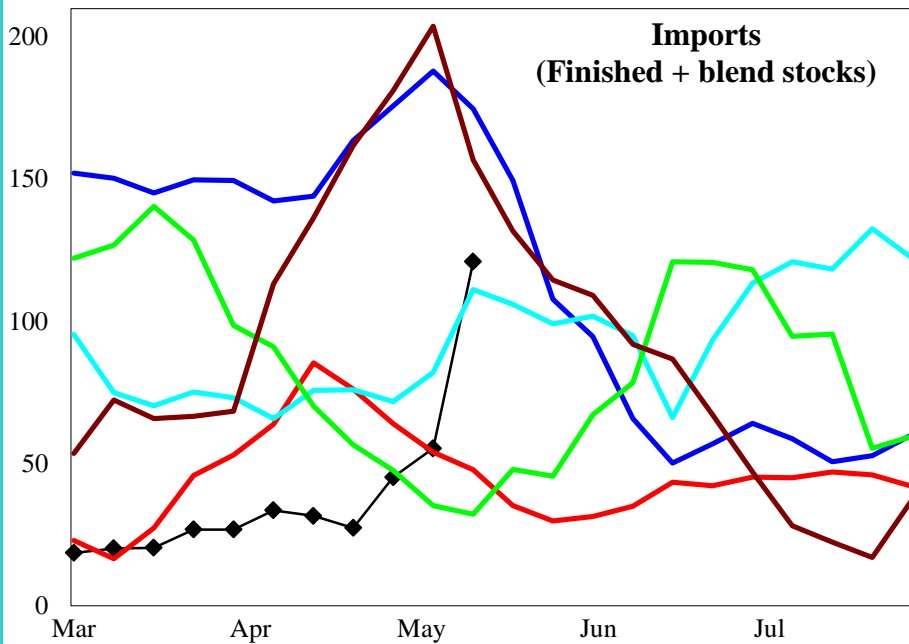
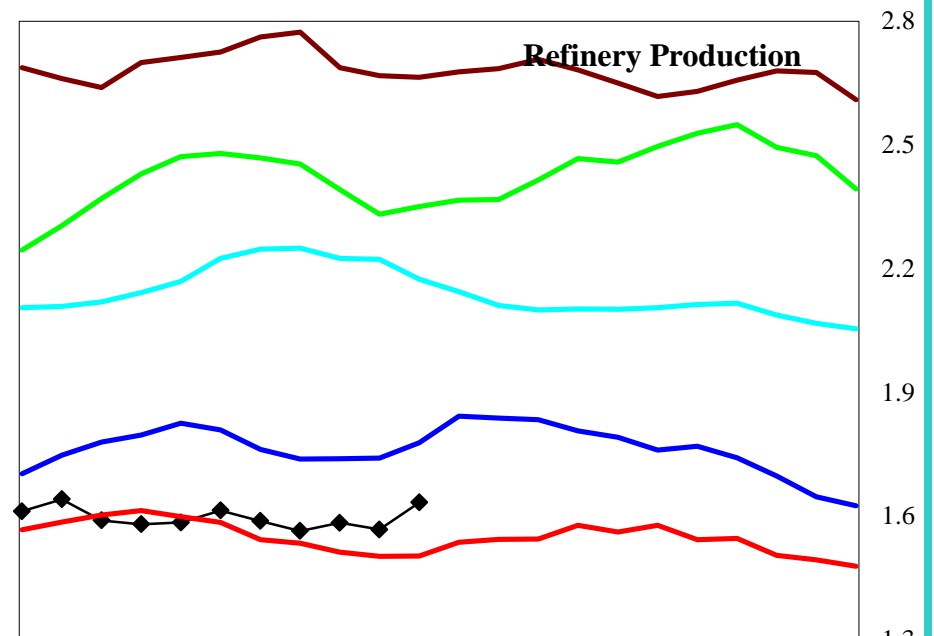
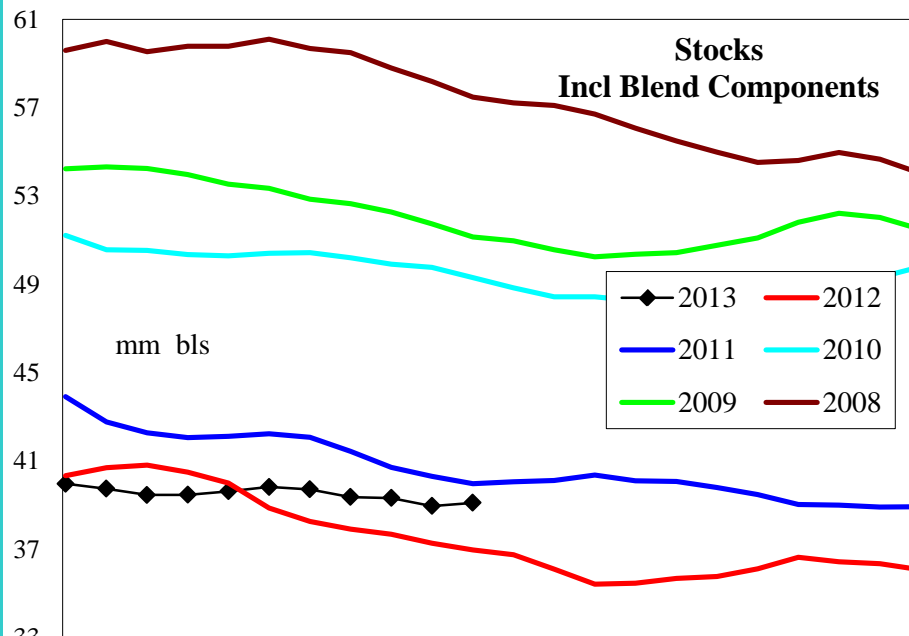
## PADD 3 Gasoline Supply



# PADD 3 Reformulated Gasoline Supply



# PADD 3 Conventional Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

1,347

3.6

Production

62

4.1

Imports

-4

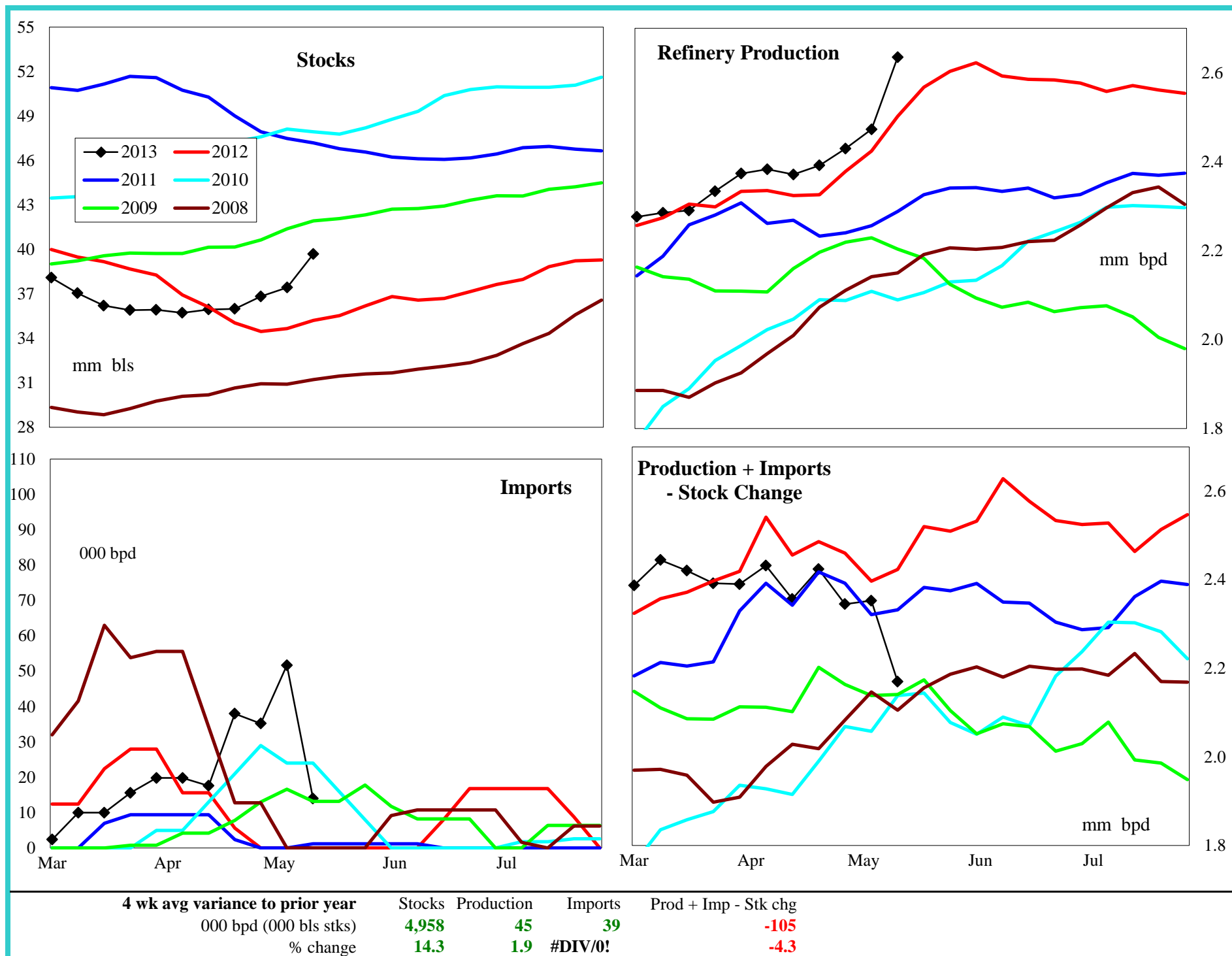
-6.2

Prod + Imp - Stk chg

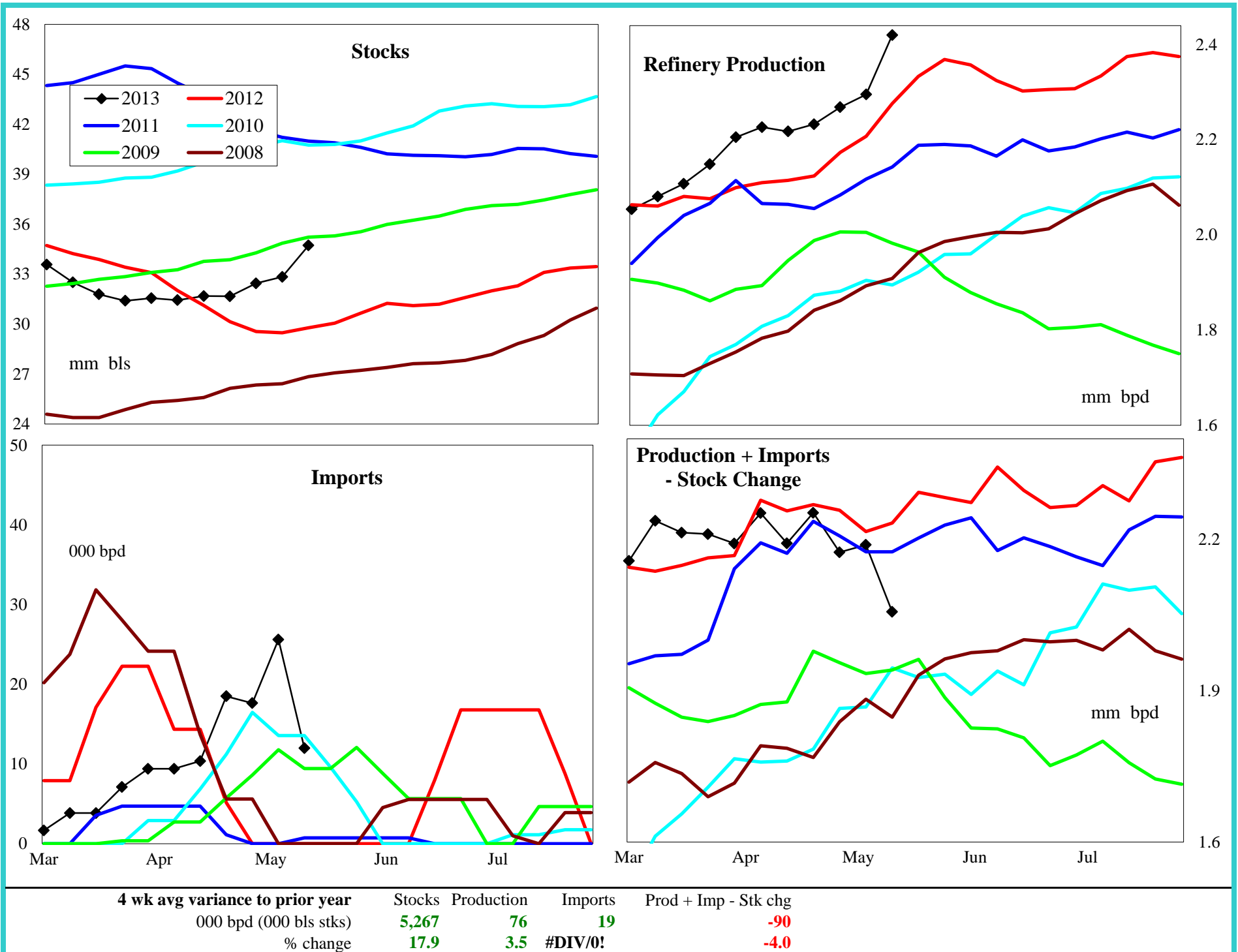
49

3.1

## PADD 3 Distillate Supply

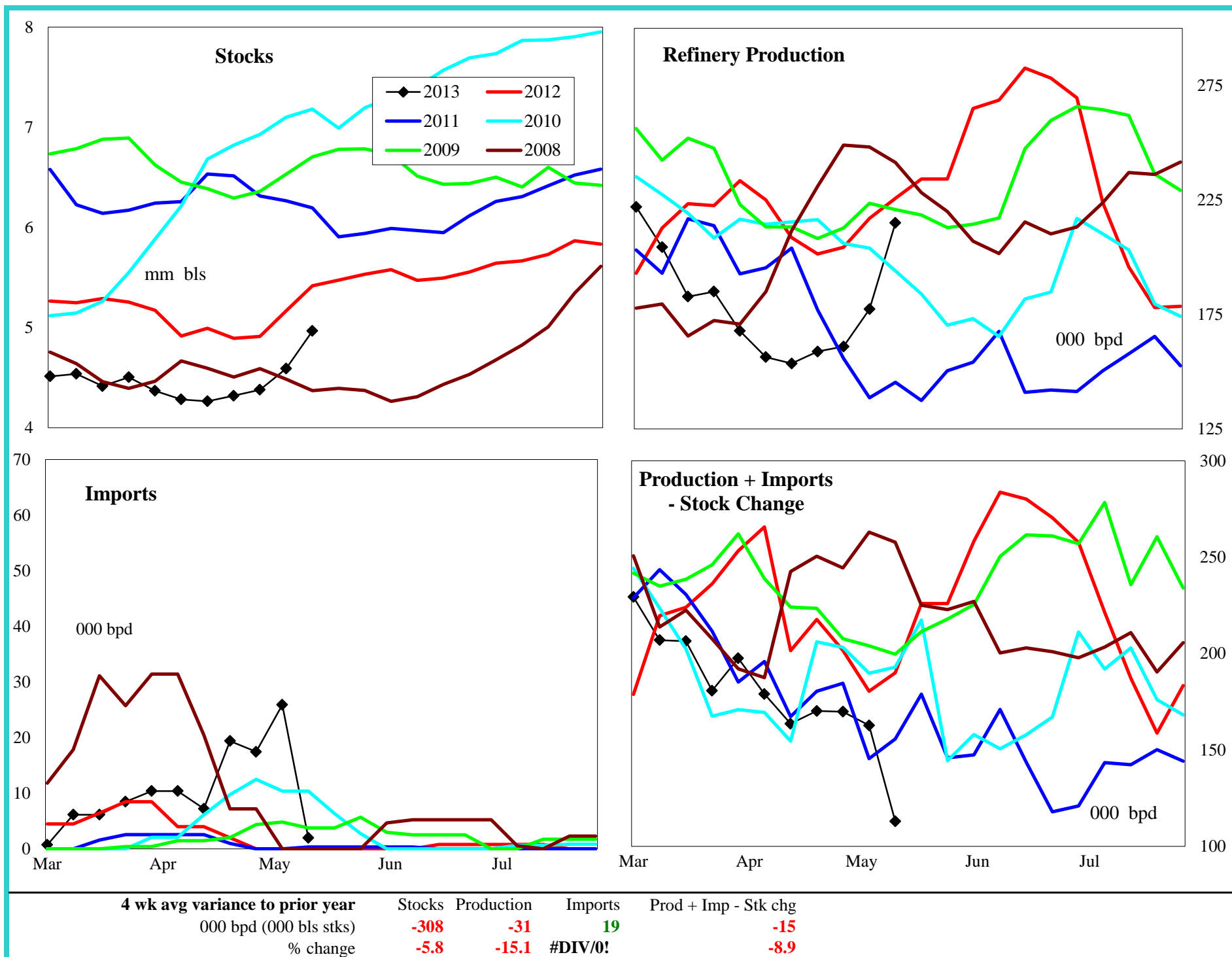


# PADD 3 Low Sulfur Distillate Supply

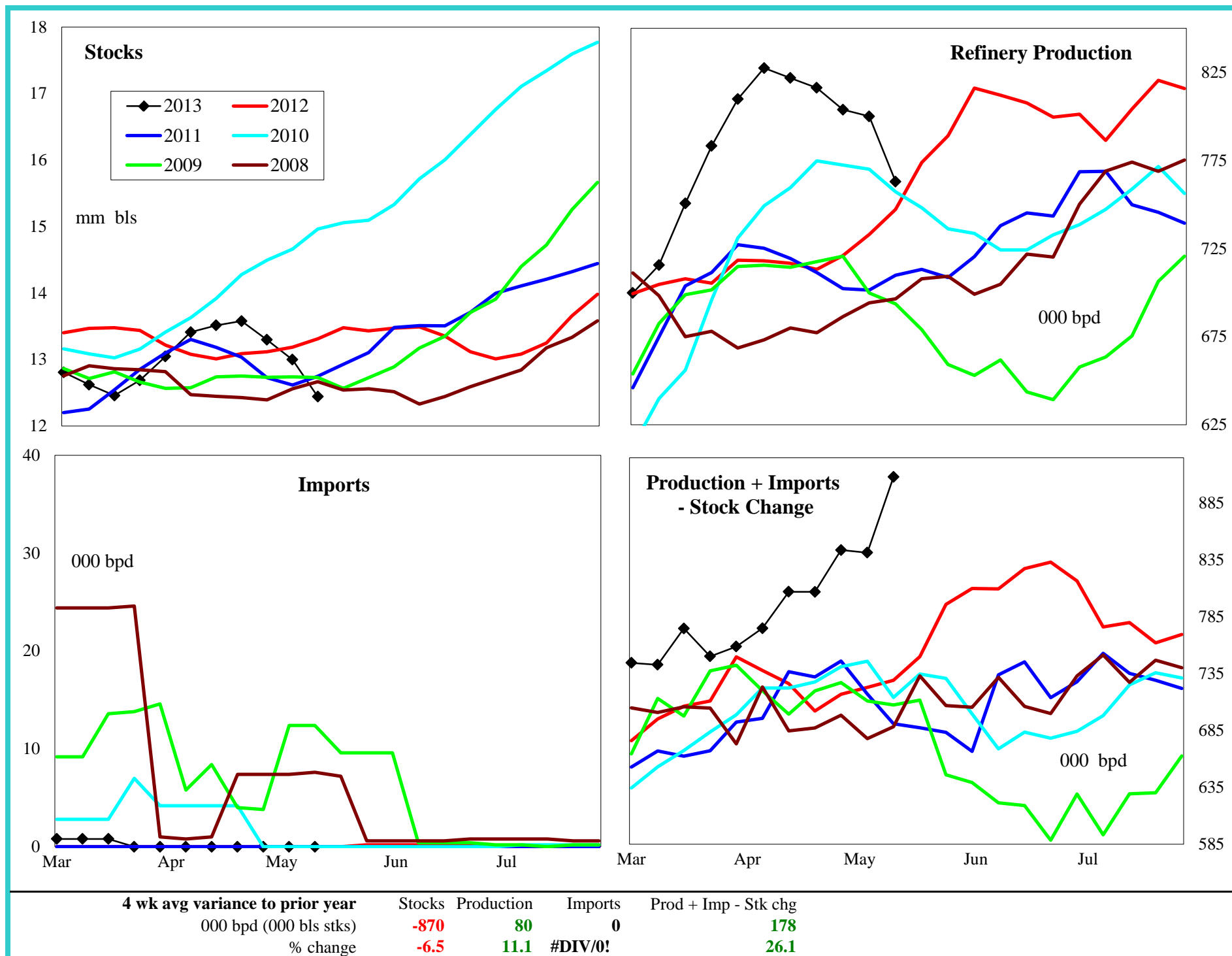




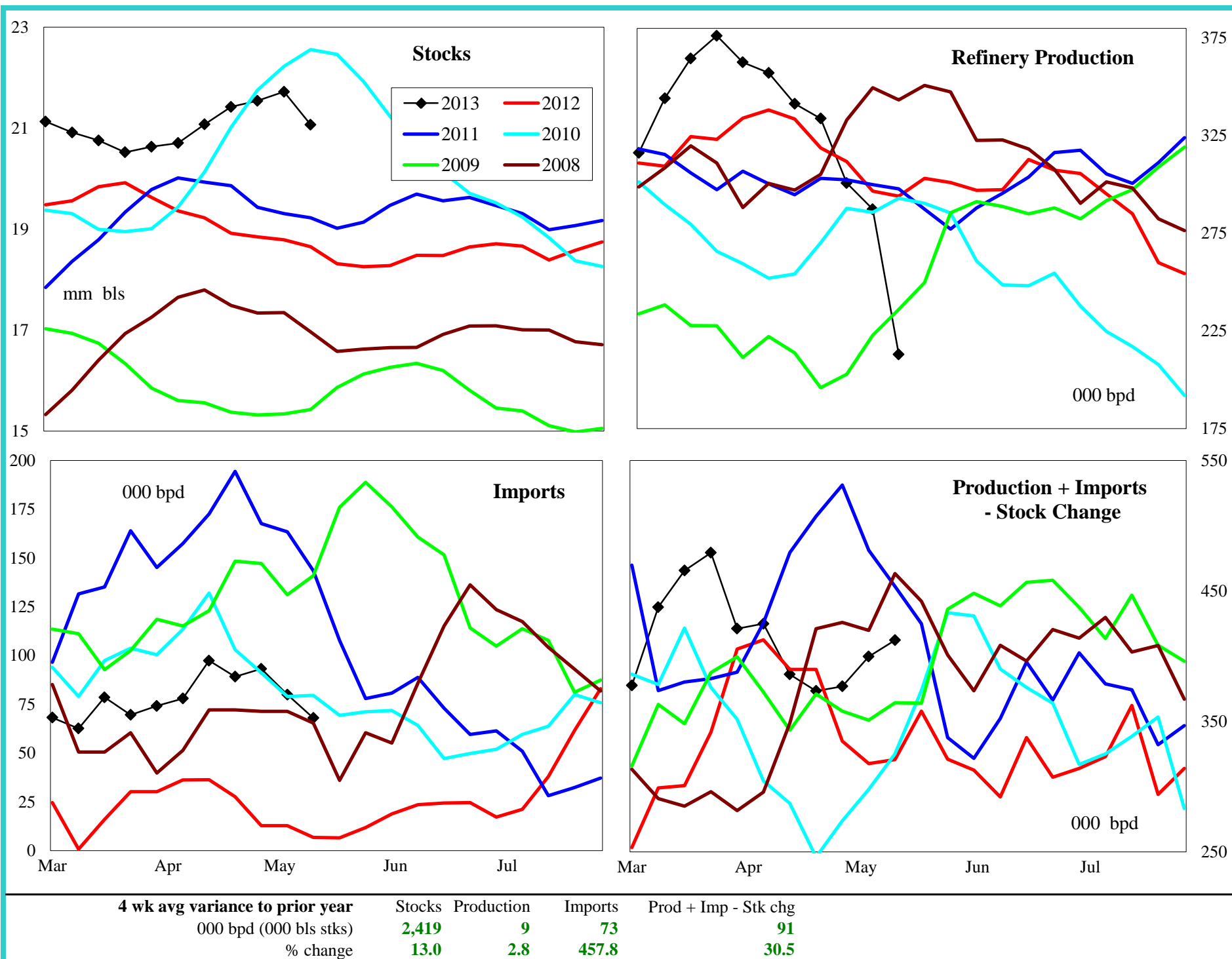
# PADD 3 High Sulfur Distillate Supply



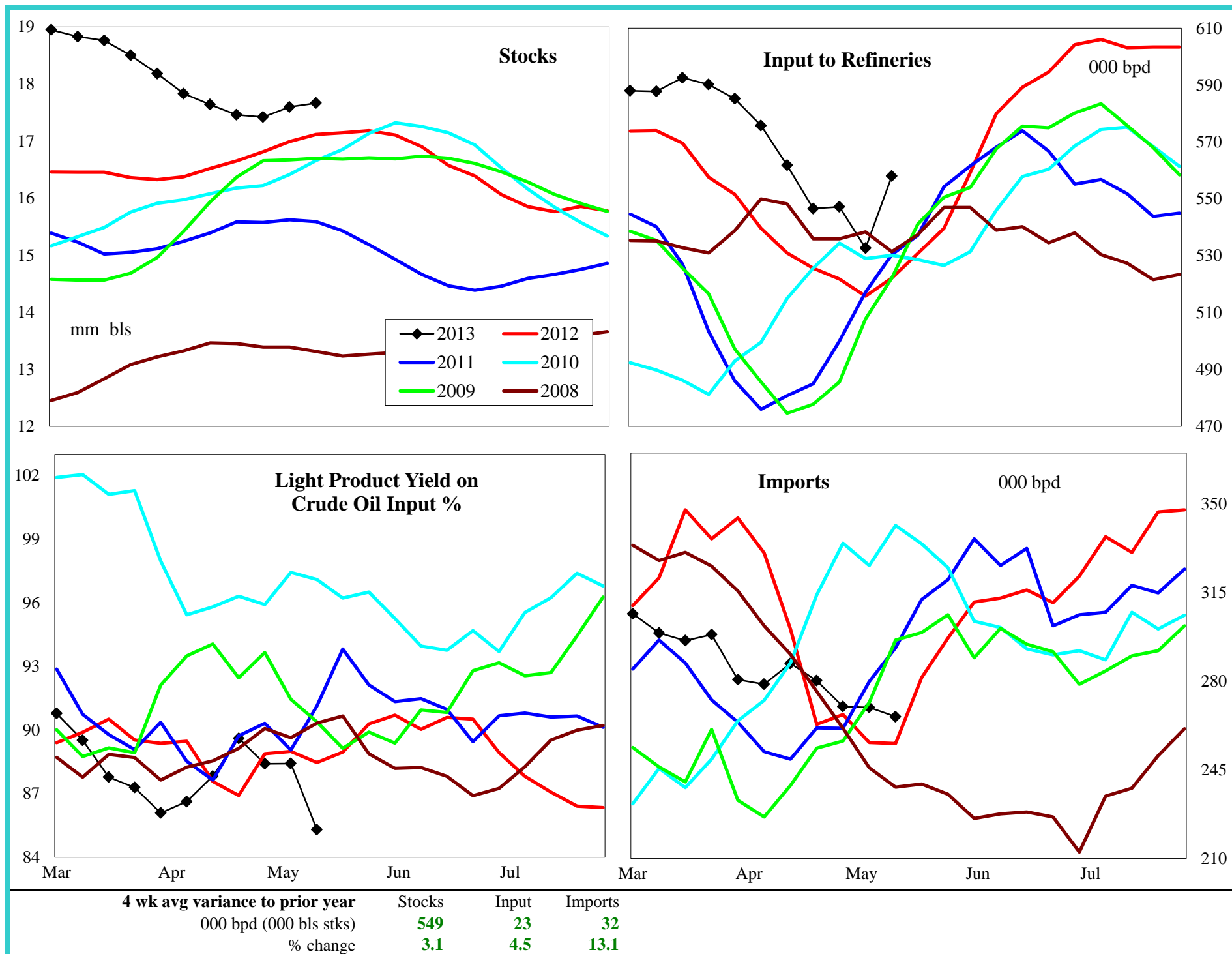
## PADD 3 Jet Fuel Supply



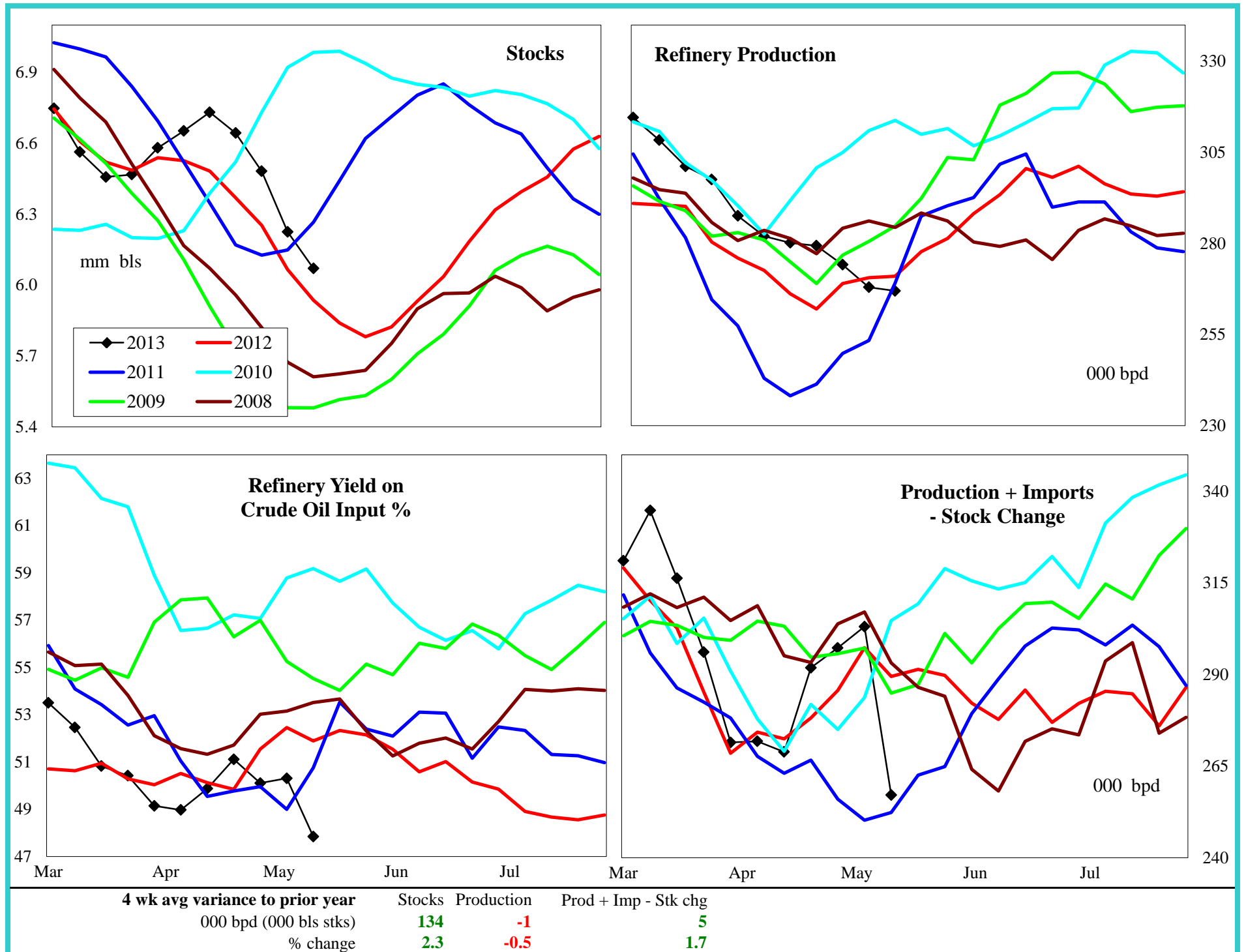
## PADD 3 Residual Fuel Oil Supply



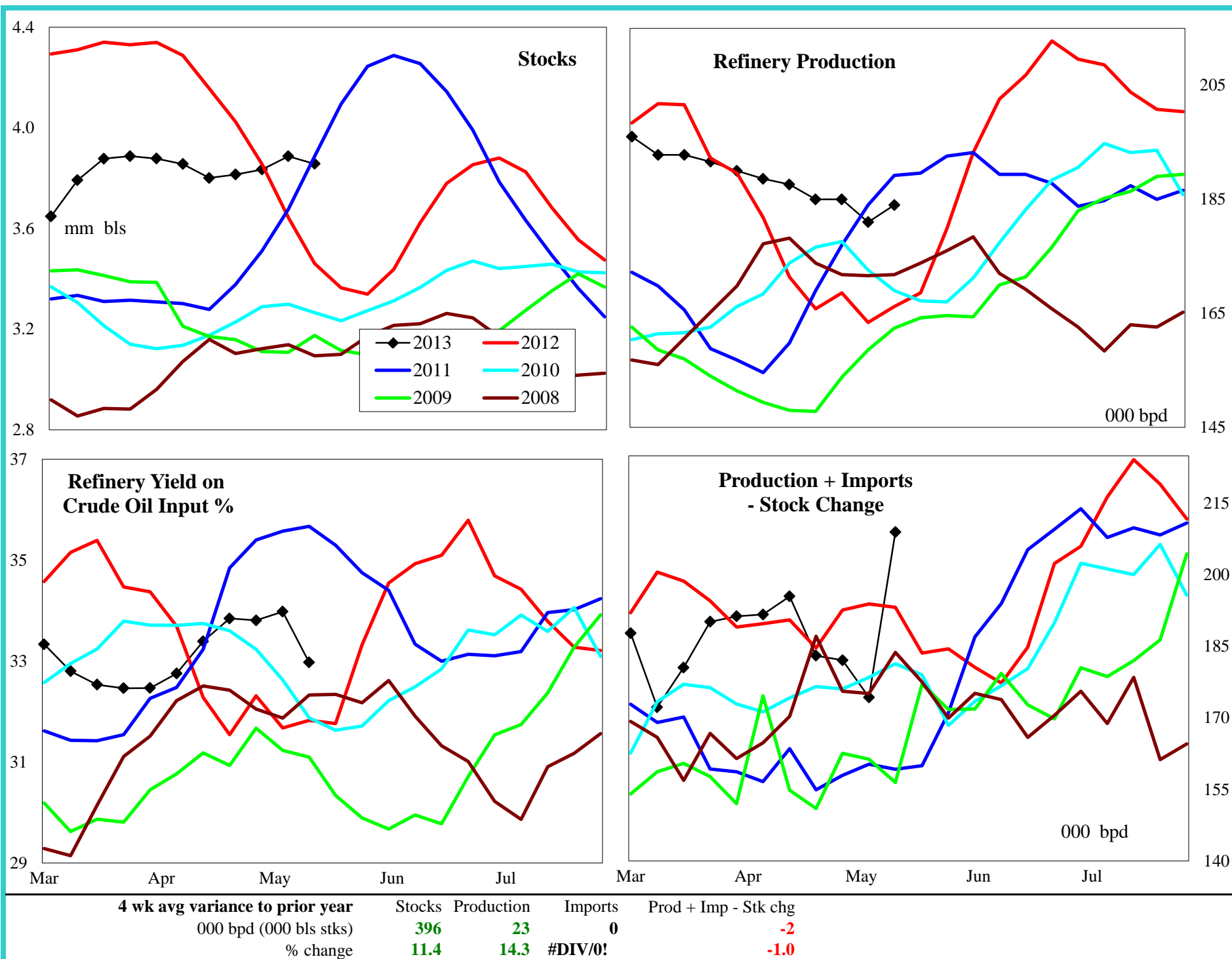
# PADD 4 Crude Oil Supply and Refining



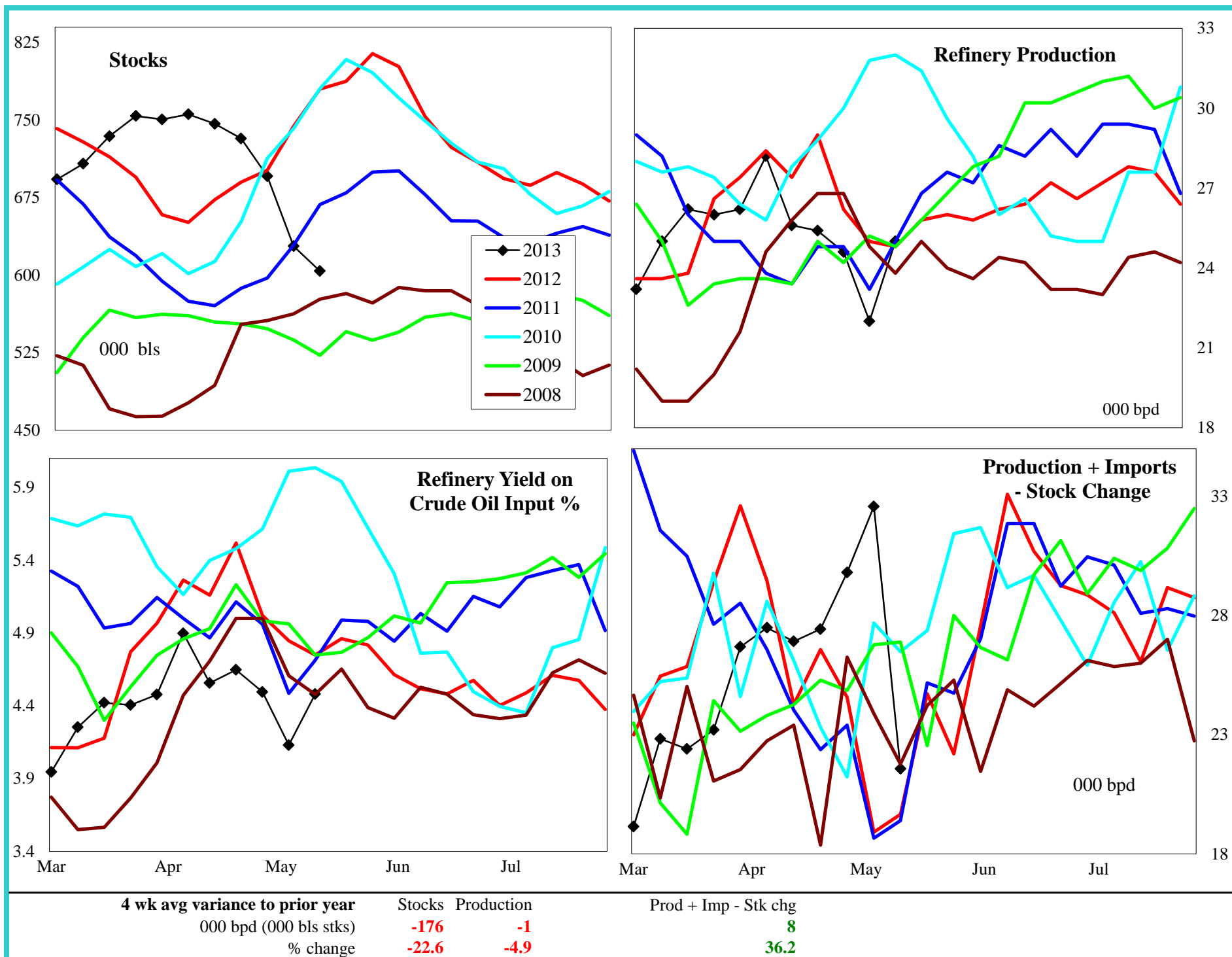
## PADD 4 Gasoline Supply



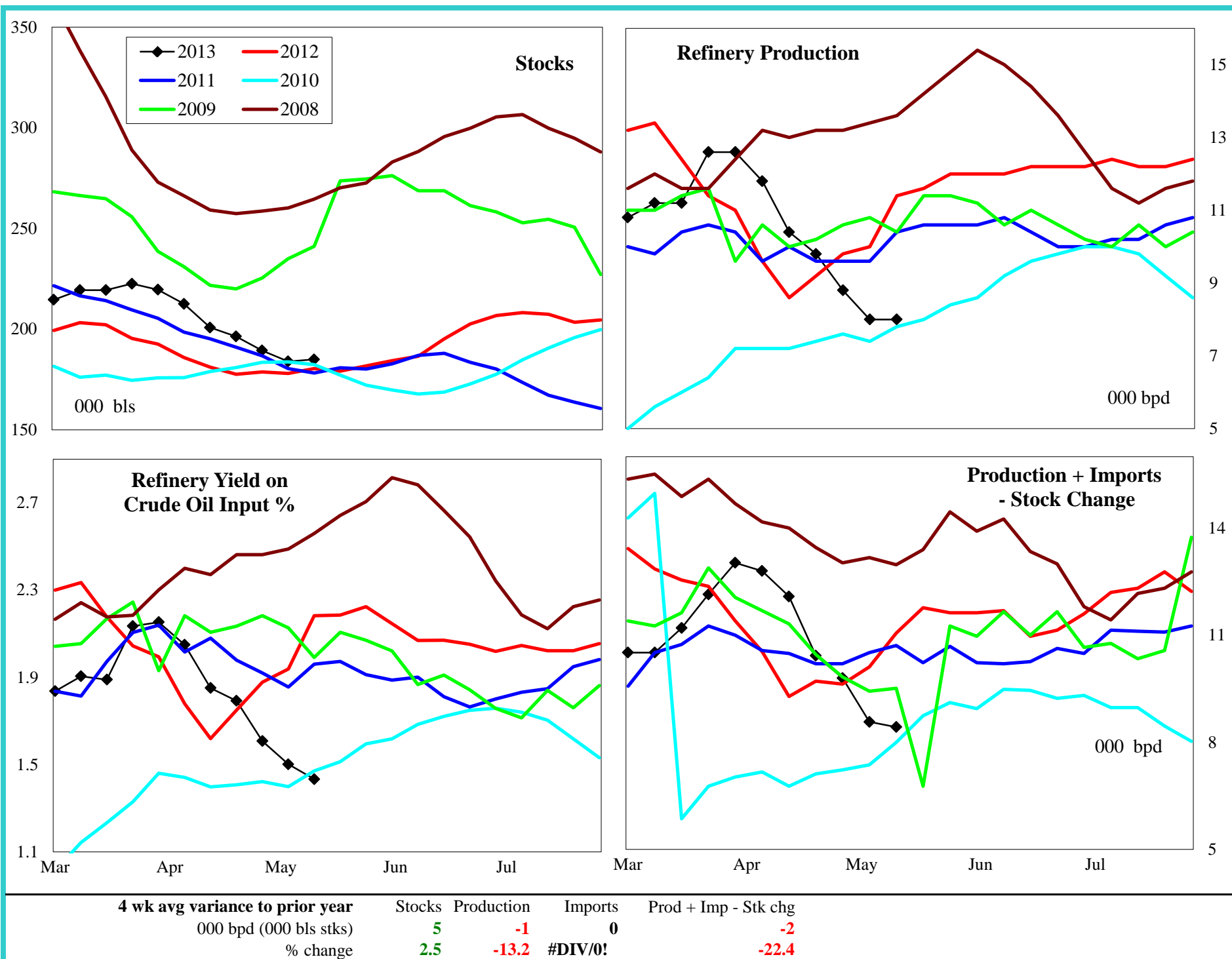
## PADD 4 Distillate Supply



## PADD 4 Jet Fuel Supply

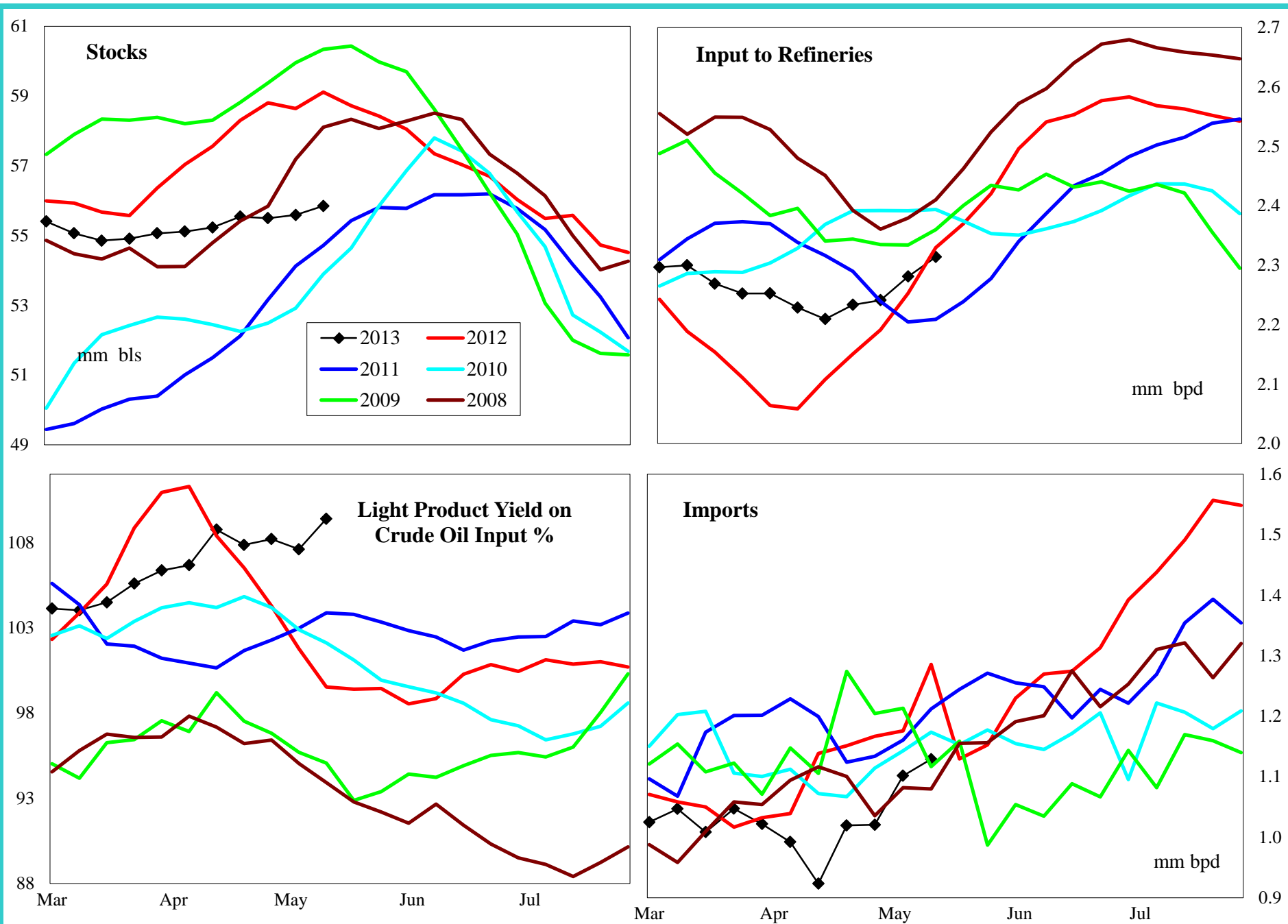


# PADD 4 Residual Fuel Oil Supply





# PADD 5 Crude Oil Supply and Refining



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

-3,266

-5.5

Input

24

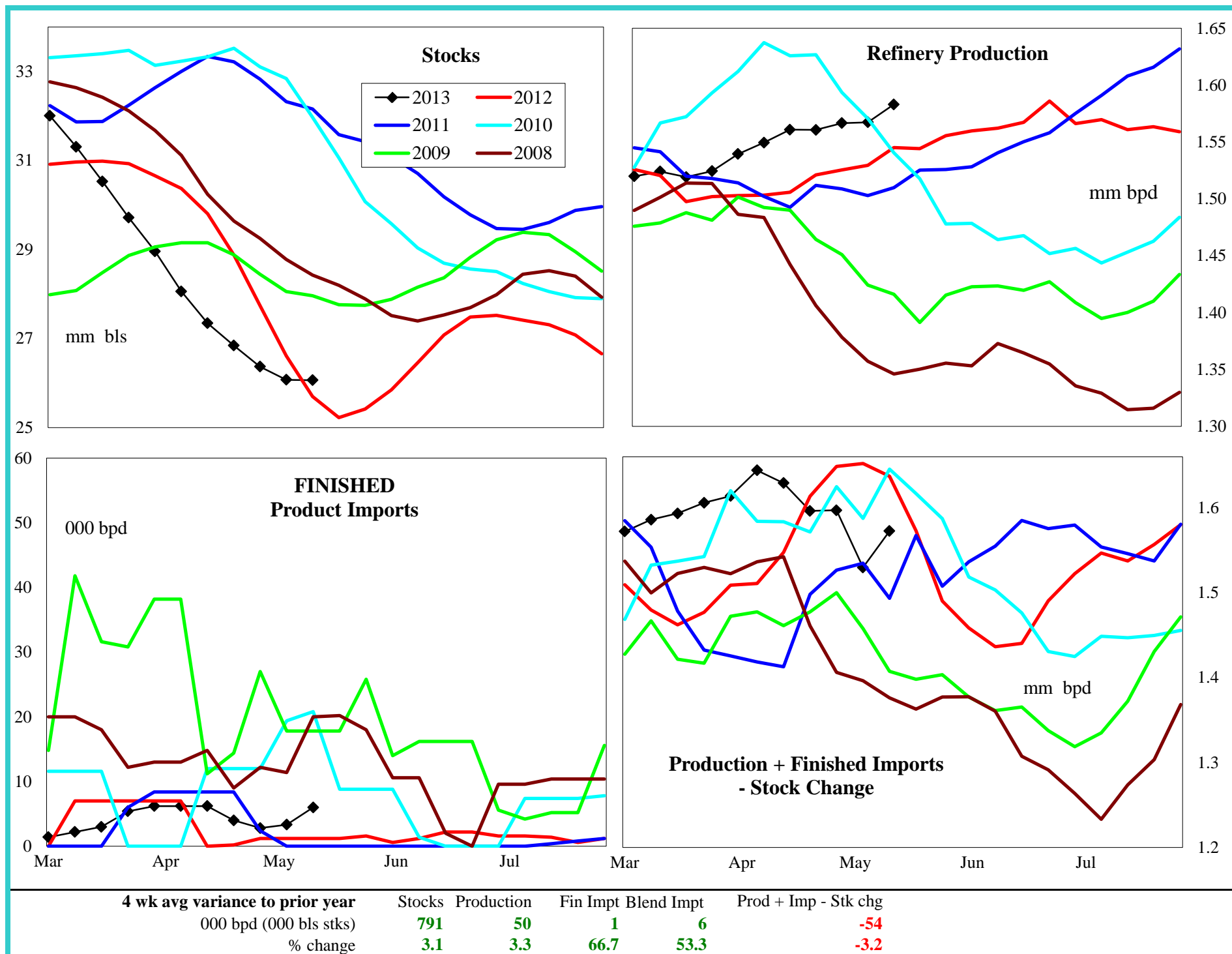
1.1

Imports

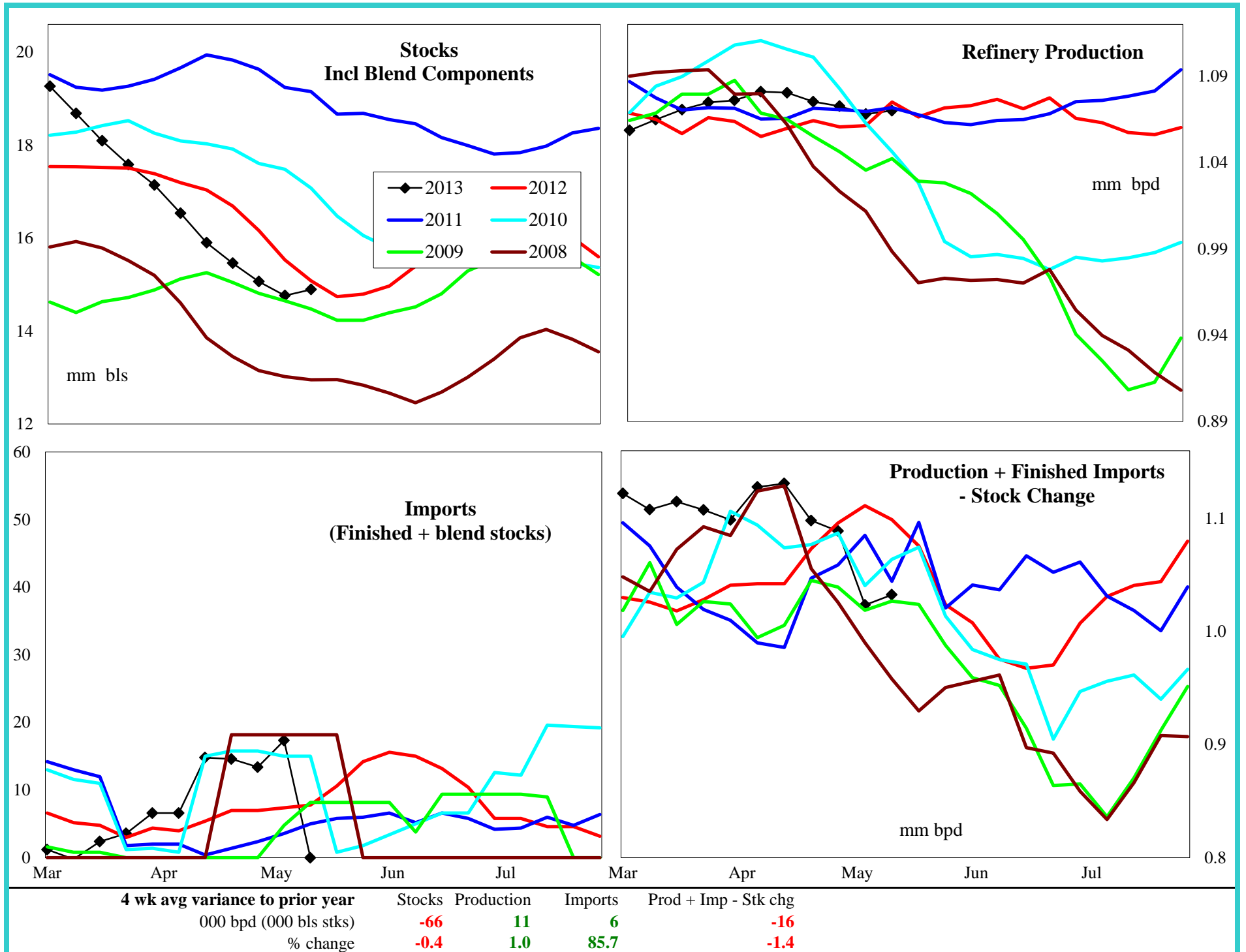
-170

-14.2

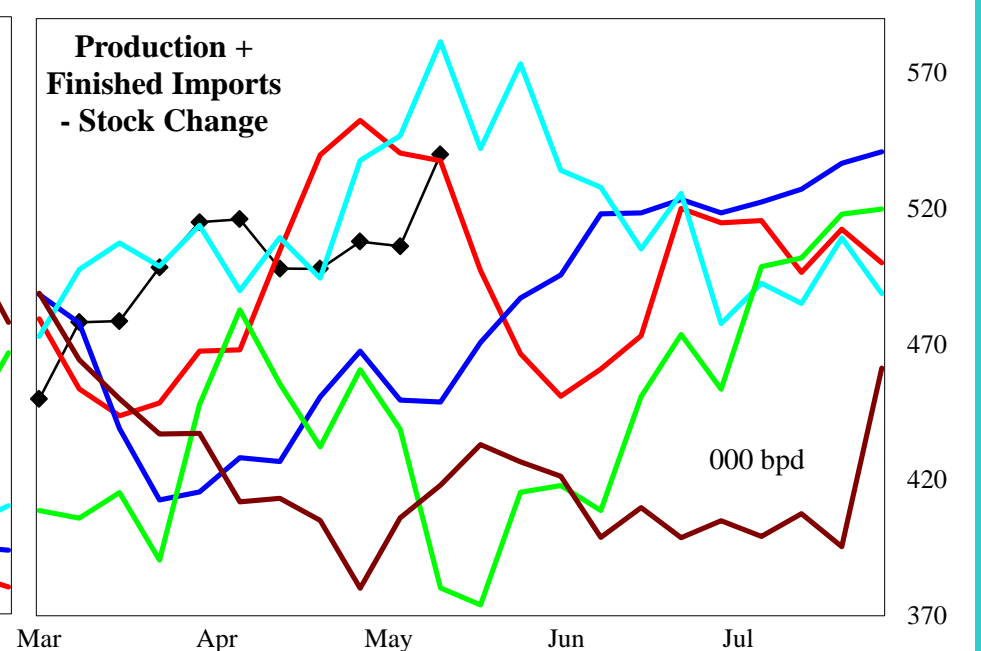
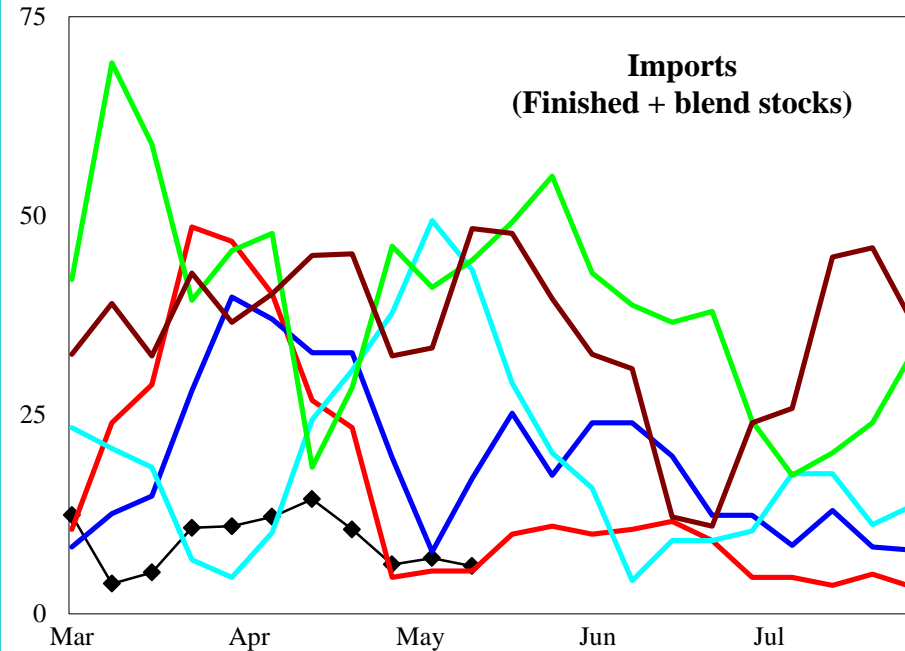
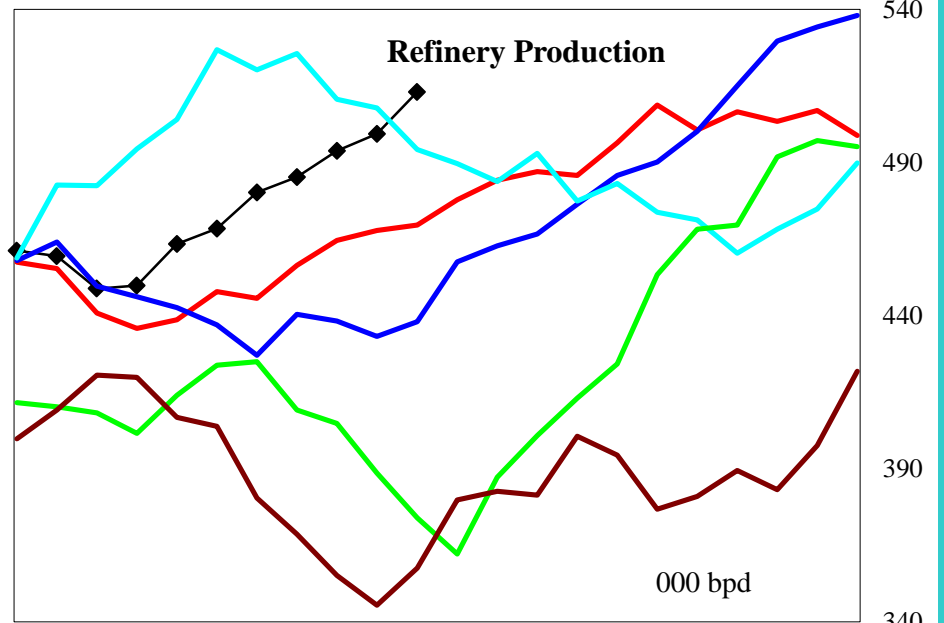
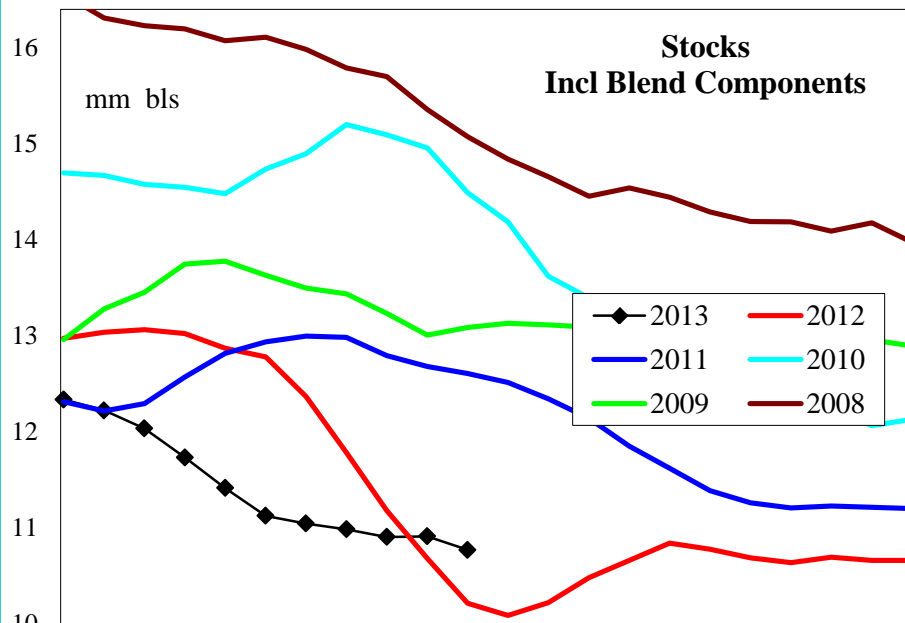
## PADD 5 Gasoline Supply



# 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

857

40

1

-38

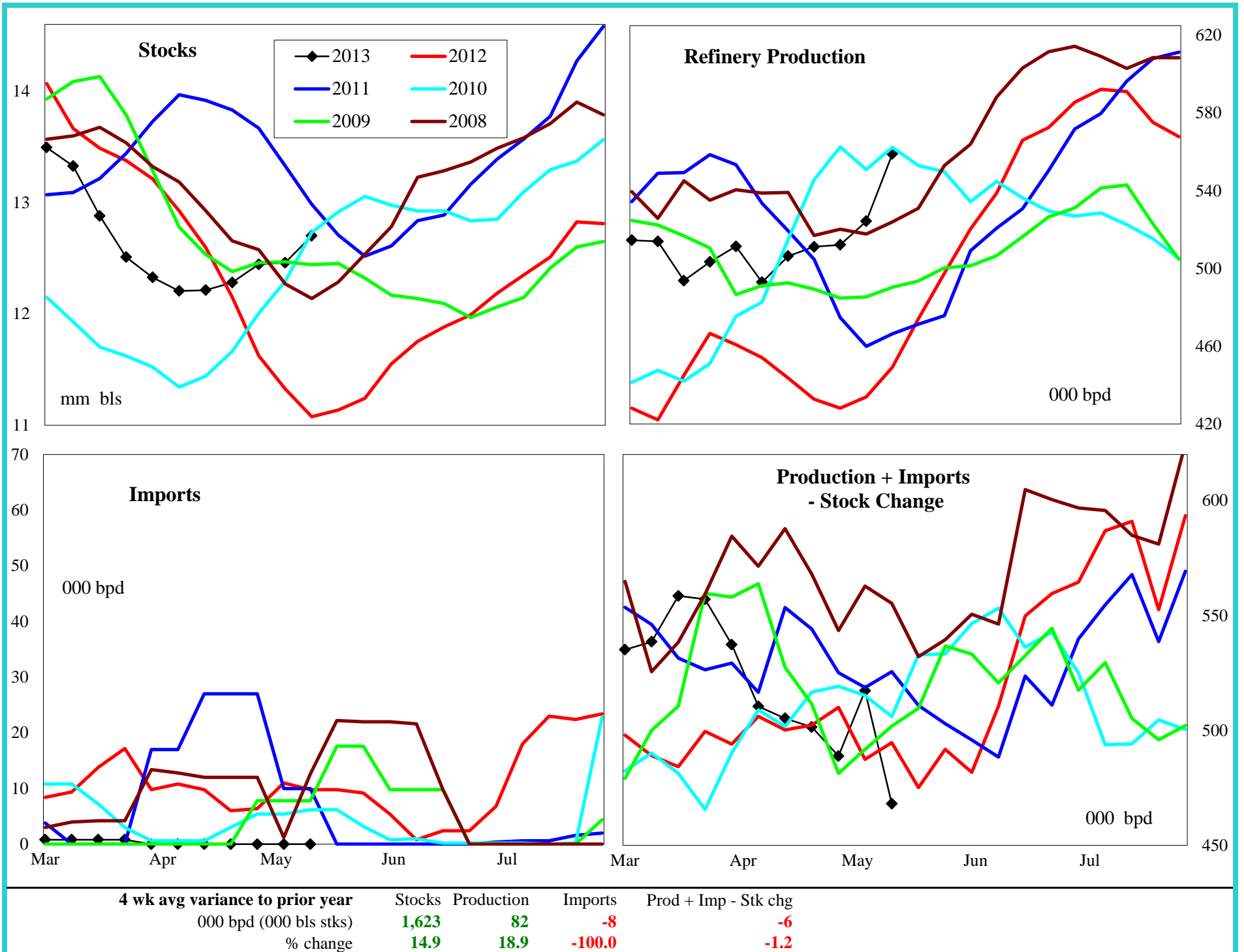
8.6

8.6

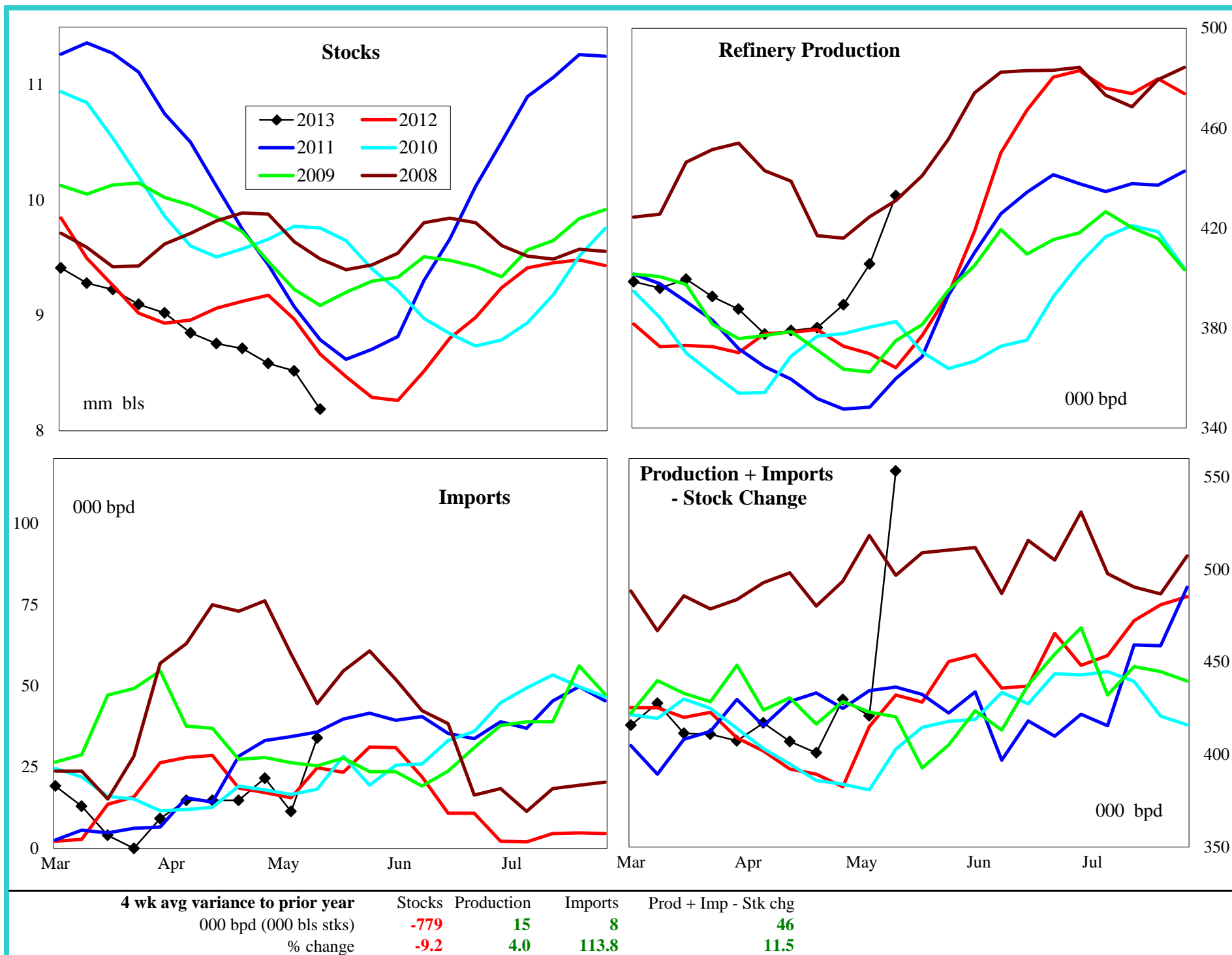
17.4

-7.0

## PADD 5 Distillate Supply



## PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

