

## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

### A Fundamental Petroleum Trends Weekly Report

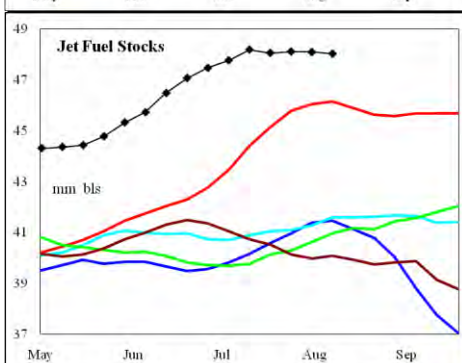
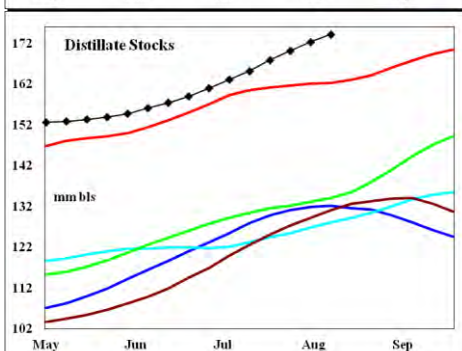
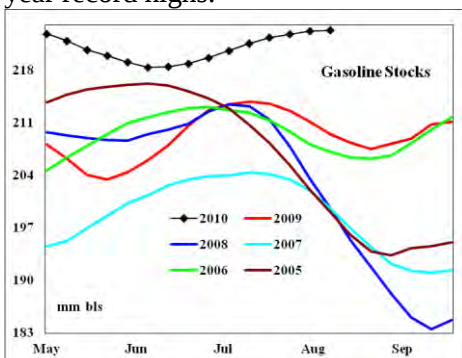
Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, August 18, 2010



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

Gasoline and distillate wholesale demand jumped a combined +497,000 bpd last week; not surprising given the sharp decline of the prior 2-wks. However, high levels of production offset the increased weekly demand, leaving gasoline stocks unchanged on the week and distillate stocks rising +1.1 million barrels.

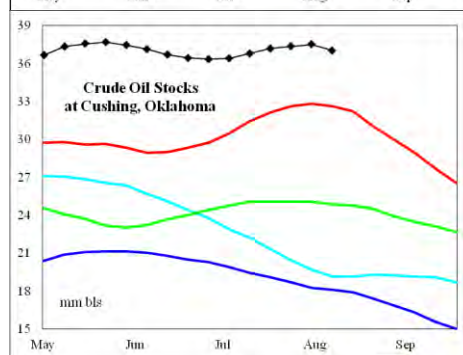
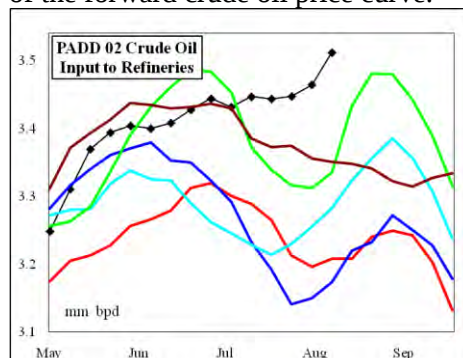
Combined stocks of transport fuels (gasoline, distillate and jet fuel) were +28 million barrels above the prior 5-year record highs.



In the absence of weather disruptions on the Gulf Coast and slow economic growth; the supply-demand balance for

transport fuels in regional markets East of the Rockies has become bearish. Refiners will need to cut crude oil runs and conduct above normal fall maintenance to prevent extreme over supply conditions during the next quarter.

Crude oil stock levels remain very high in Cushing; given record refinery runs in PADD 2. With the start of fall refinery maintenance less than 1-month away there is significant risk of further downward pressure on the front of the forward crude oil price curve.



**Demand** for gasoline and distillate were sharply higher last week, following sharp declines in the prior two weeks.

Wholesale demand (including exports) measured over the last four weeks compared to a year ago: gasoline +3.5%; distillate up +5.9%; jet fuel up +7.3% while residual fuel oil fell -20%.

**Stocks forward coverage:** Gasoline demand coverage remains above the five year range, with weekly stocks unchanged, and the stock level +13.5 million barrels above the prior record high for the period.

Distillate demand coverage

remains near record highs on a +1.1 million barrel weekly stock build, with stock levels +12.6 million barrels above the prior 5-year high.

Jet fuel coverage increased on a sharp drop in weekly demand and +0.5 million barrel weekly stock build. Coverage levels were above 4 of the last 5 years.

Residual fuel oil coverage remains extremely high on very low demand and stock levels at the upper end of the 5-year range.

**Refinery utilization** rates increased on a +172,000 bpd rise in crude oil runs. Crude oil runs for the latest 4-wk period were +858,000 bpd above a year ago.

Gasoline yield % on crude oil runs decreased last week on a -157,000 bpd decline in production versus a +172,000 bpd rise in crude runs. Yield % was below the last 2-years.

Distillate yield % on crude oil runs decreased on a -98,000 bpd decrease in output versus the increased in crude oil runs. Yield % was above four of the last five years.

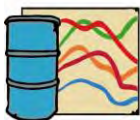
Jet fuel yield % on crude oil runs was nearly unchanged on a +27,000 bpd rise in production, with the yield % near the mid range.

**Petroleum Imports** of crude oil and gasoline increased last week, while middle distillates decreased.

During the latest 4-wk period distillate imports increased +44,000 bpd compared to last year; finished gasoline imports decreased -159,000 bpd, gasoline blend stock imports increased +265,000 bpd; jet fuel imports decreased -19,000 bpd, while residual fuel oil imports increased +225,000 bpd.

**Crude Oil** imports increased +120,000 bpd last week, with the 4-wk average +0.7 million bpd above last year. Stocks decreased -0.8 million barrels on the week, including a -0.7 million barrel draw in Cushing. Stock levels remain +10.5 million barrels above the prior 5-year high.

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



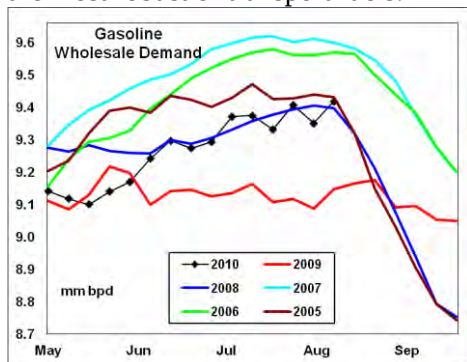
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

### A Fundamental Petroleum Trends Weekly Report

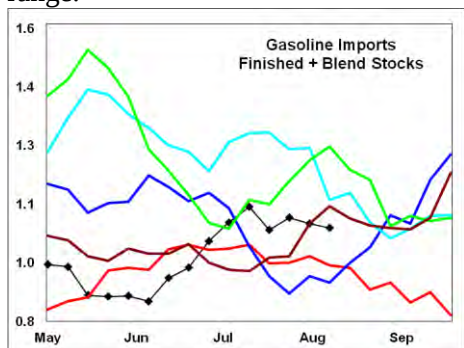
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#### Product Supply-Demand Trends

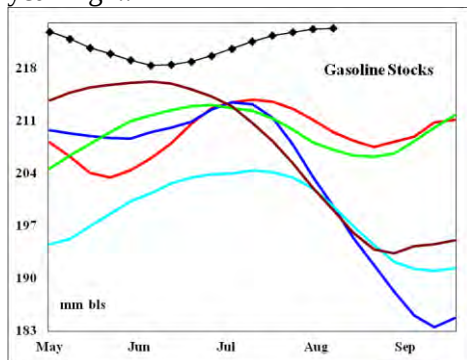
**Gasoline** demand increased +223,000 bpd on the week, with the latest 4-wk average +320,000 bpd above a year ago. Gasoline demand growth remains the most robust of transport fuels.



Gasoline production decreased -157,000 bpd on the week, with the level still above the mid range. The most recent 4-wk average was +212,000 bpd above last year. Imports increased +121,000 bpd, to near the range.



The high level of production offset an upturn in demand on the week, leaving stocks unchanged. Stock levels were +13.6 million barrels above the prior 5-year high..



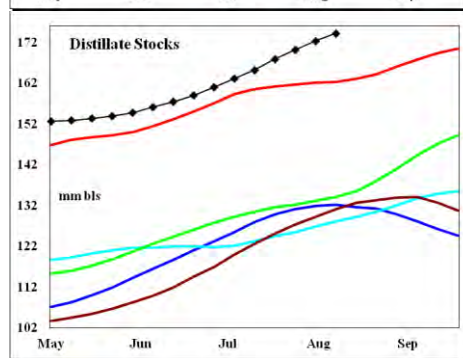
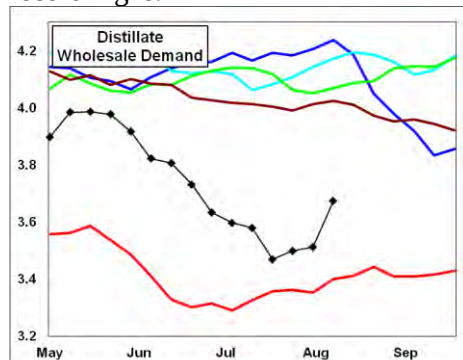
Regional markets East of the Rockies remain extremely over supplied with only 3-wks to an end to peak summer

driving. Expect gasoline prices to deteriorate further compared to the overall energy complex.

**Distillate** demand surged +274,000 bpd on the week, lifting the 4-wk average to +196,000 bpd above last years' extremely depressed level.

Production decreased -98,000 bpd while imports also fell -55,000 bpd on the week. Production remains at the upper end of the historic range.

Stocks increased +1.1 million barrels on the week. Stock levels are +12.6 million barrels above last years' record highs.



The upturn in demand last week reflects robust exports. Domestic demand remains lackluster compared to pre recession levels. The rate of stock building continues to match 5-year highs, on very high production. Expect a seasonal decline in production and robust exports to provide support to prices compared to the overall energy complex.

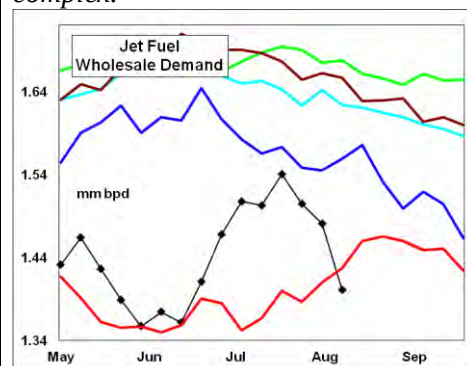
**Jet Fuel** demand decreased -192,000 bpd on the week, to a weekly level below last years' record lows. The latest 4-wk average demand was +101,000 bpd above last year.

Supply increased +34,000 bpd on

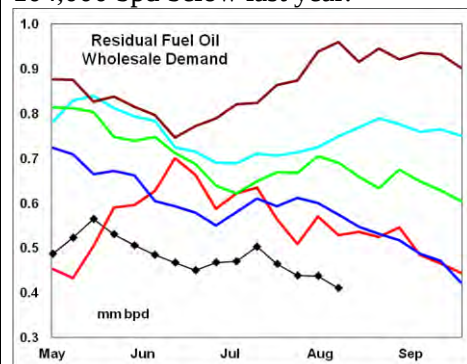
the week, with production and imports at the low end of the historic range.

Stocks increased +0.5 million barrels on the week, and remain +1.5 million barrels above the prior record high.

Expect production to trend lower as refiners began fall maintenance by month end, offsetting a seasonal decline in demand. Continued high stock levels should pressure prices compared to the overall energy complex.



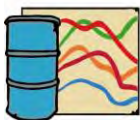
**Residual fuel oil** demand, including exports, increased +35,000 bpd last week, with the 4-wk average -104,000 bpd below last year.



Supply (production + imports) declined -42,000 bpd on the week, with the latest 4-wk average +33,000 bpd above a year ago. Stocks were nearly unchanged on the week, with the level near the prior 5-year high.

Refiners have cut production -32% below a year ago, offset by a +120% increase in imports. Key regional markets remain well supplied with stock levels near historic highs.

Expect very low production rates to provide modest price support compared to the energy complex.



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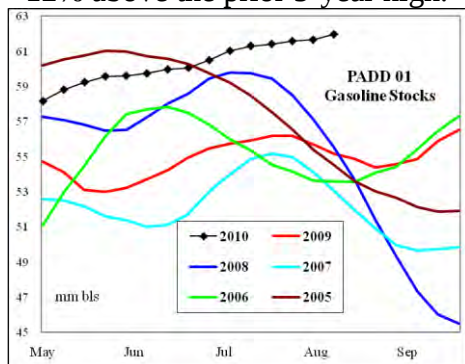
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#### PADD Supply Trends

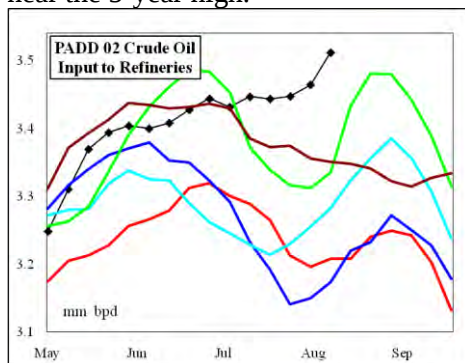
**PADD 1** refinery crude oil runs increased +120,000 bpd last week, with the 4-wk average -131,000 bpd below last years' record low rate.

Gasoline production increased +30,000 bpd on the week, with the latest 4-wk average +443,000 bpd above a year ago. Imports (blend stocks) increased +181,000 bpd last week, historic mid range. Stocks increased +0.6 million barrels, +12% above the prior 5-year high.



Distillate supply increased +32,000 bpd last week. Stocks increased +1.7 million barrels on the week, to a new record high level.

Jet fuel supply increased +38,000 bpd last week. Stock levels remain near the 5-year high.



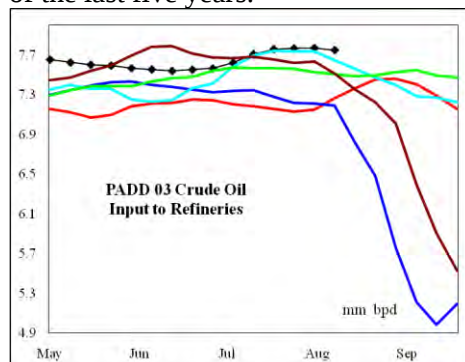
**PADD 2** crude oil refinery runs increased +97,000 bpd last week, to a new 5-year season high. Imports increased +50,000 bpd to the upper end of the historic range. Stocks were nearly unchanged, including a -0.7 million barrel draw in Cushing.

Gasoline production decreased -20,000 bpd last week, but remains at a level near the 5-year high. Stocks

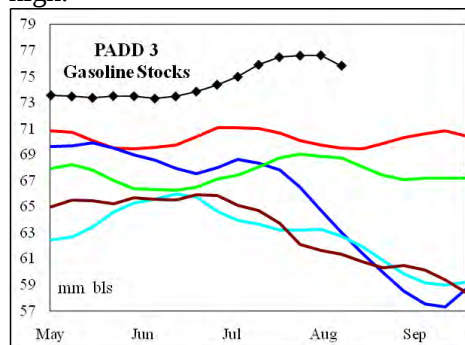
were nearly unchanged on the week, at a level near last years' record high.

Distillate production declined -56,000 bpd on the week, with the level above the 5-year range. Stock levels remain near last years' 5-year high.

Jet fuel stocks increased +0.7 million barrels, to a level above the 5-year range, on record high production. **PADD 3** refinery crude oil runs increased +60,000 bpd, to a level above the historic range. The latest 4-wk average was +657,000 bpd above a year ago. Crude imports increased +228,000 bpd to near the mid range. Stocks decreased -1.3 million barrels on the week, with the level above four of the last five years.



Gasoline production decreased -142,000 bpd on the week. Stocks decreased -0.8 million barrels, but remains +9.8% above the prior 5-year high.



Distillate production declined -43,000 bpd on the week, but remains at a level above the historic range. Stocks increased +0.4 million barrels, up +17% over the prior 5-year high.

Jet fuel production declined -12,000 bpd to the low end of the historic range. Stock levels are now +11.6% above the prior record high.

Residual fuel oil production decreased -44,000 bpd to a record low level for the season. Stocks remain above the historic range.

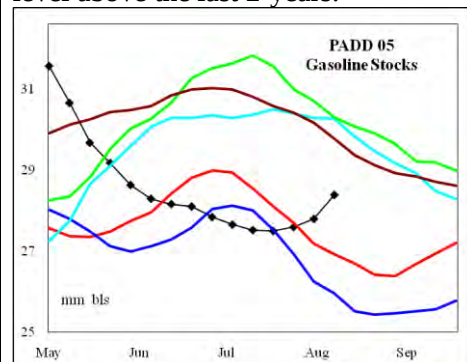
**PADD 4** refinery crude runs increased +36,000 bpd on the week, to a level above the last 2-years. The latest 4-wk average thru put matched year ago rates. Imports remain above the historic range.

Gasoline production decreased -16,000 bpd on the week, to a level matching the mid range. Stocks extended the recent downtrend, with the level comparable to the last 3-years.

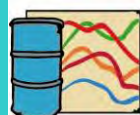
Distillate production increased +16,000 bpd on the week, to a level near the mid range. Stock levels remain well above the historic range.

**PADD 5** crude oil refinery runs decreased -141,000 bpd on the week, falling to a level below last years' record low. Crude imports decreased -80,000 bpd last week to the mid range. Stocks increased +1.4 million barrels, to a the low end of the historic range.

Gasoline production decreased -8,000 bpd on the week, but remains at a level above the last 2-years. The latest 4-wk average supply was -25,000 bpd below last year. Stocks increased +0.5 million barrels to a level above the last 2-years.



Distillate production declined -17,000 bpd to a level below the 5-year range. Imports also fell to the low end of the historic range. Very low production led to a -0.8 million barrel stock draw on the week. Stock levels remain at the upper end of the historic range.


**FUNDAMENTAL  
PETROLEUM  
TRENDS**

**PETROLEUM: Graph Link and Weekly Summary**

A Fundamental Petroleum Trends Weekly Report

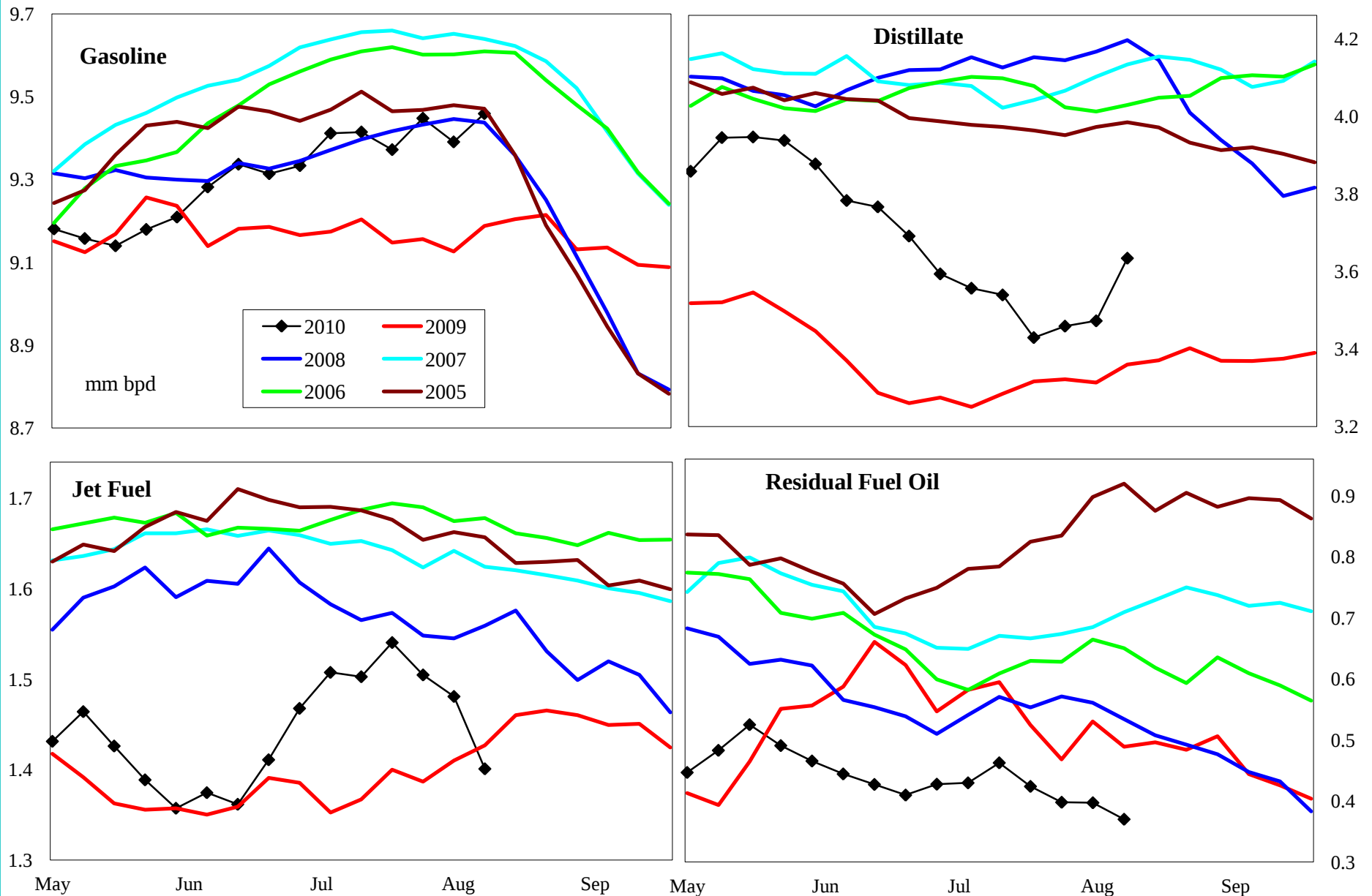
August 18, 2010

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| Fundamental Trends       | <u>Wholesale Demand</u>   | <u>Stocks Days Fwd Coverage</u> | <u>Refinery Utilization</u><br><u>Product Yield %</u> |      |        |      | <u>Imports</u> |
|--------------------------|---------------------------|---------------------------------|-------------------------------------------------------|------|--------|------|----------------|
| Supply/Demand Trends     | 13-Aug-10                 | EIA-DOE CHANGE FROM PRIOR WEEK  |                                                       |      |        |      |                |
|                          | 000 bpd<br>stocks 000 bls | U. S.<br>Total                  | PADD                                                  |      |        |      |                |
|                          |                           |                                 | 1                                                     | 2    | 3      | 4    | 5              |
| <u>Crude Oil</u>         | Stocks                    | -818                            | -966                                                  | -150 | -1,272 | 187  | 1,383          |
|                          | Imports                   | 120                             | -54                                                   | 50   | 228    | -23  | -80            |
|                          | Input                     | 172                             | 120                                                   | 97   | 60     | 36   | -141           |
|                          | % Utilization             | 1.90                            |                                                       |      |        |      |                |
| <u>Gasoline</u>          | Stocks                    | -39                             | 595                                                   | -164 | -781   | -203 | 515            |
|                          | Production                | -157                            | 30                                                    | -20  | -142   | -16  | -8             |
|                          | Imports                   | 121                             | 181                                                   | 1    | -58    | 0    | -1             |
|                          | Supplied                  | 223                             |                                                       |      |        |      |                |
| <u>Distillate</u>        | Stocks                    | 1,069                           | 1,711                                                 | -344 | 448    | 10   | -754           |
|                          | Production                | -98                             | 2                                                     | -56  | -43    | 16   | -17            |
|                          | Imports                   | -55                             | 30                                                    | 29   | 0      | -5   | -110           |
|                          | Supplied                  | 274                             |                                                       |      |        |      |                |
| <u>Jet Fuel</u>          | Stocks                    | 479                             | 368                                                   | 547  | -268   | -50  | -119           |
|                          | Production                | 27                              | 15                                                    | 5    | -12    | -10  | 29             |
|                          | Imports                   | 7                               | 23                                                    | 0    | 0      | 0    | -15            |
|                          | Supplied                  | -192                            |                                                       |      |        |      |                |
| <u>Residual Fuel Oil</u> | Stocks                    | 104                             | 744                                                   | -89  | -552   | 4    | -2             |
|                          | Production                | -17                             | 6                                                     | -2   | -44    | 3    | 22             |
|                          | Imports                   | -25                             | -7                                                    | 0    | 74     | 0    | -92            |
|                          | Supplied                  | 35                              |                                                       |      |        |      |                |

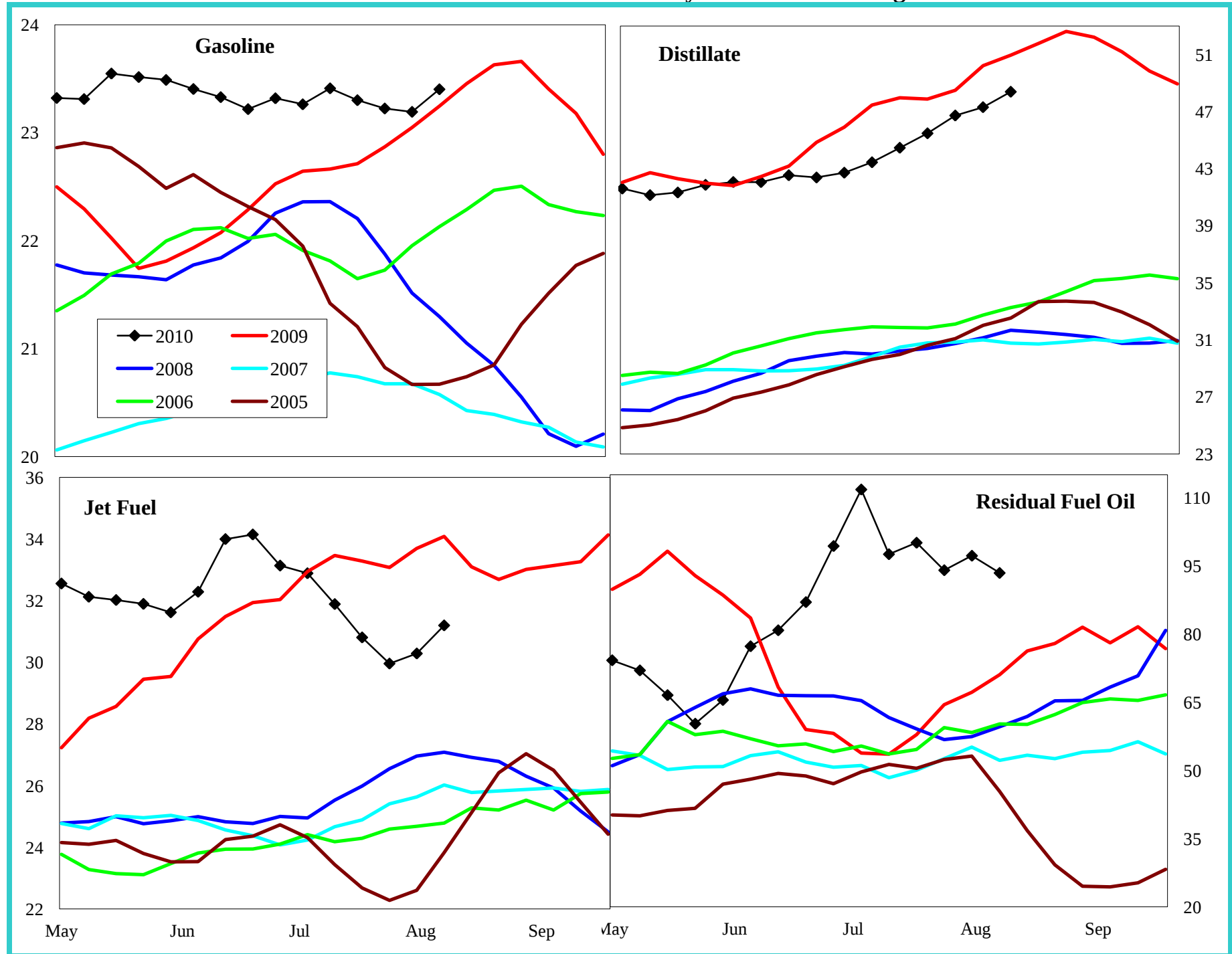
# United States Wholesale Petroleum Demand



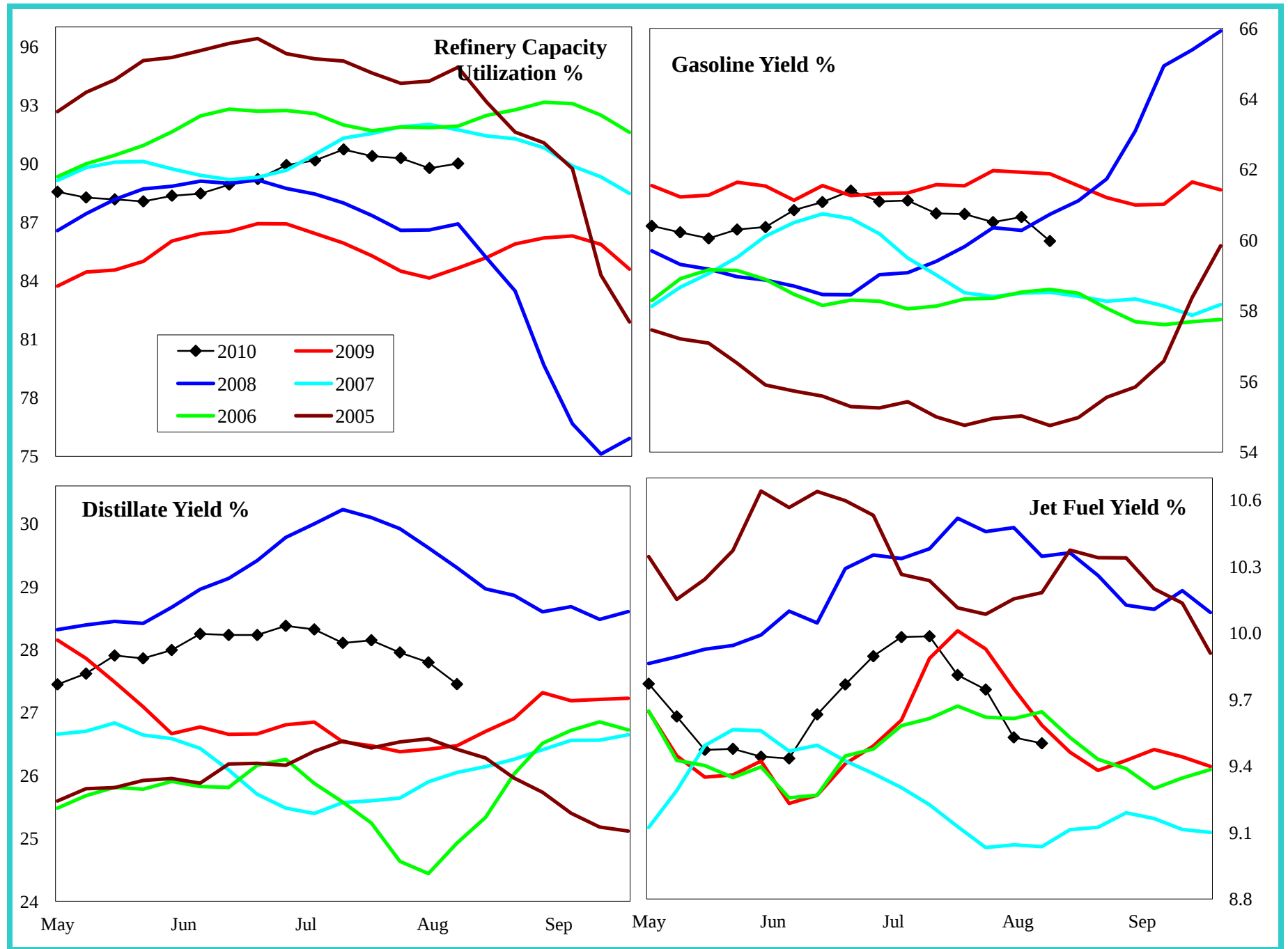
|            | 000 bpd change from prior year |     |      |     | % change from prior year |      |       |      |
|------------|--------------------------------|-----|------|-----|--------------------------|------|-------|------|
|            | 4wk avg                        | Jul | Jun  | May | 4wk avg                  | Jul  | Jun   | May  |
| Gasoline   | 320                            | 139 | 129  | 133 | 3.5                      | 1.5  | 1.4   | 1.5  |
| Distillate | 196                            | 213 | 258  | 199 | 5.9                      | 6.3  | 7.3   | 5.8  |
| Jet Fuel   | 101                            | 10  | -74  | 93  | 7.3                      | 0.7  | -5.2  | 7.0  |
| Resid      | -104                           | 178 | -124 | 81  | -19.6                    | 55.8 | -21.9 | 18.7 |



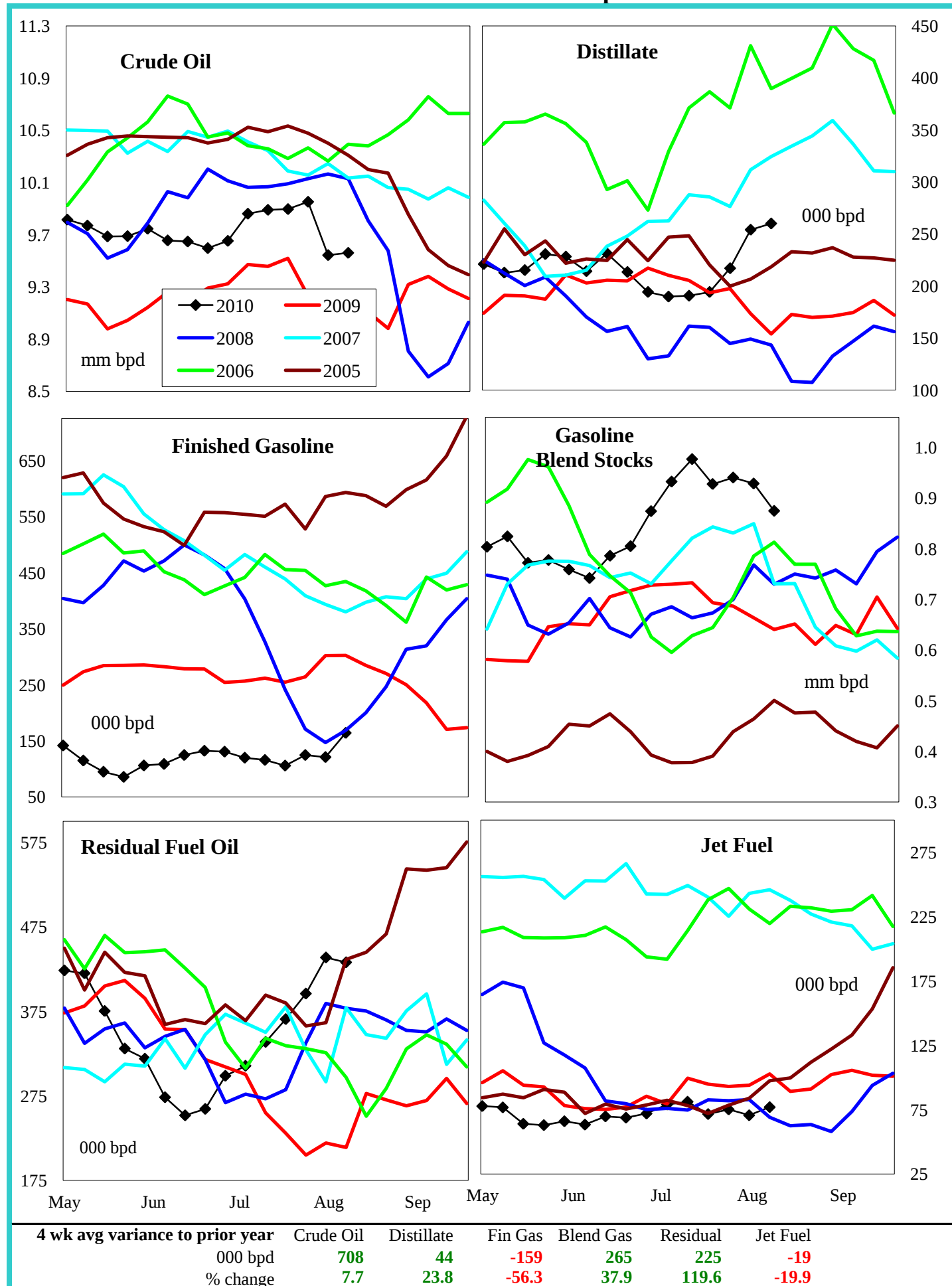
## United States Product Stocks: Days Forward Coverage



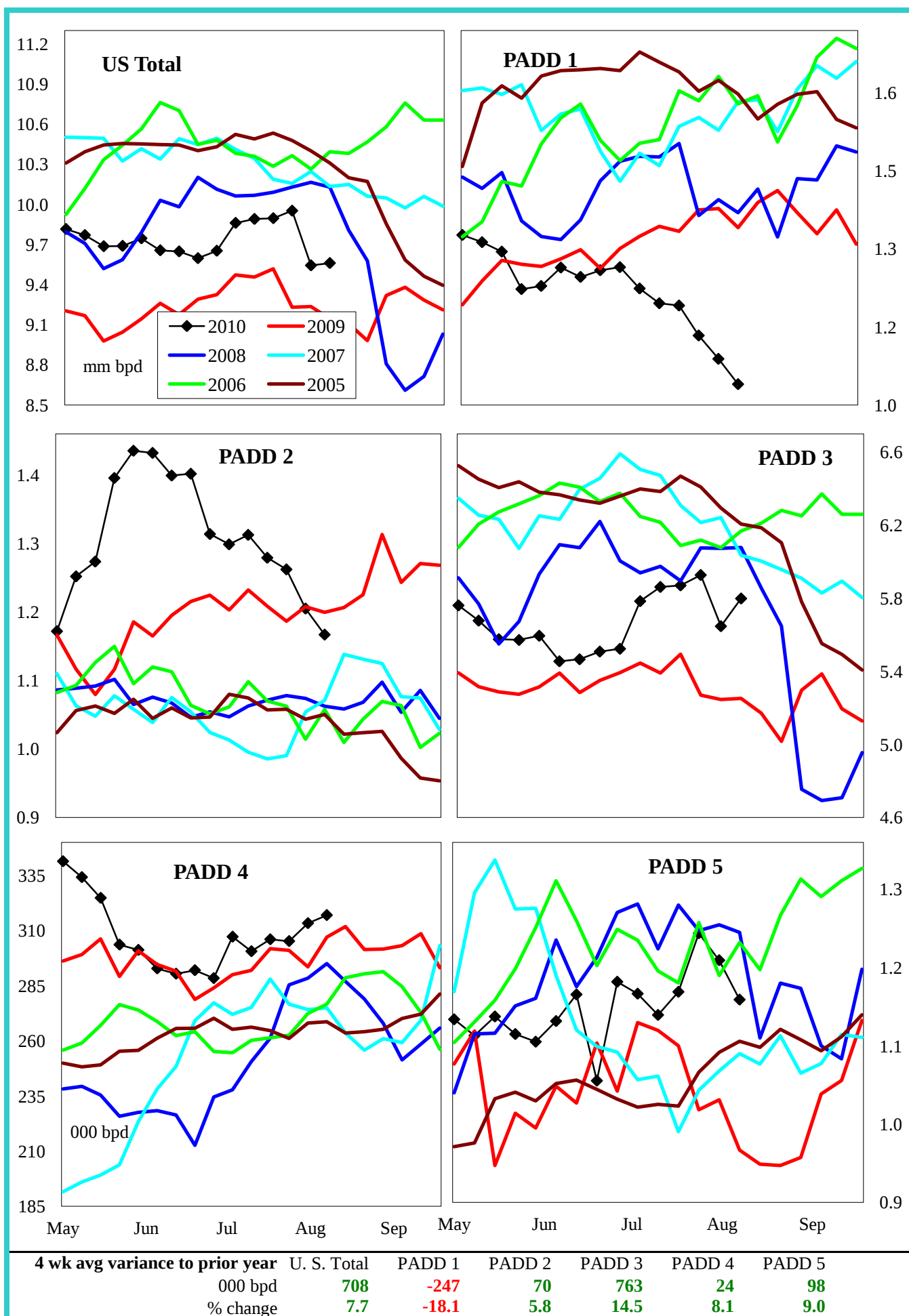
## United States Refinery Percent Utilization Rate and Product Yields



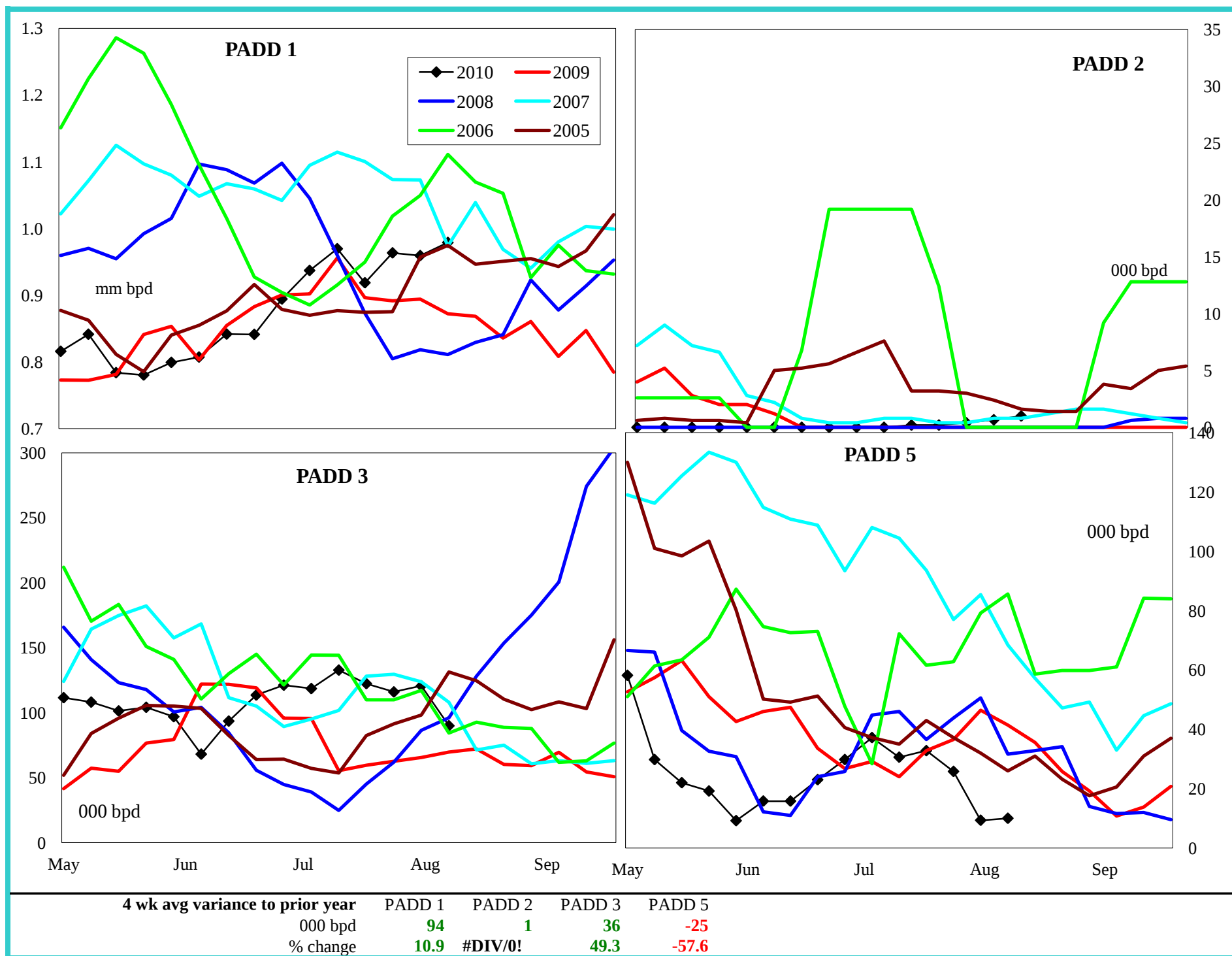
# United States Petroleum Imports



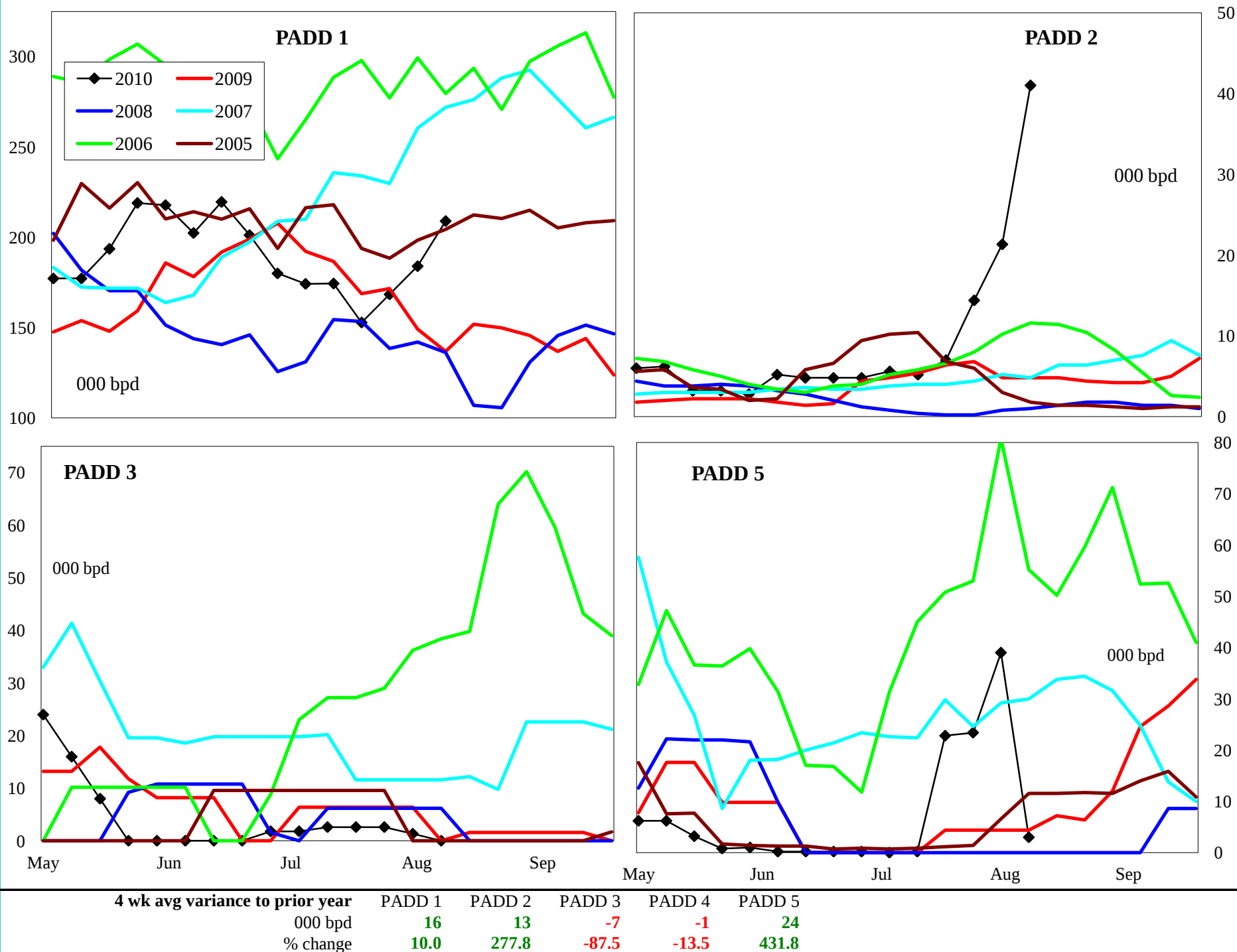
## Crude Oil Imports by PADD



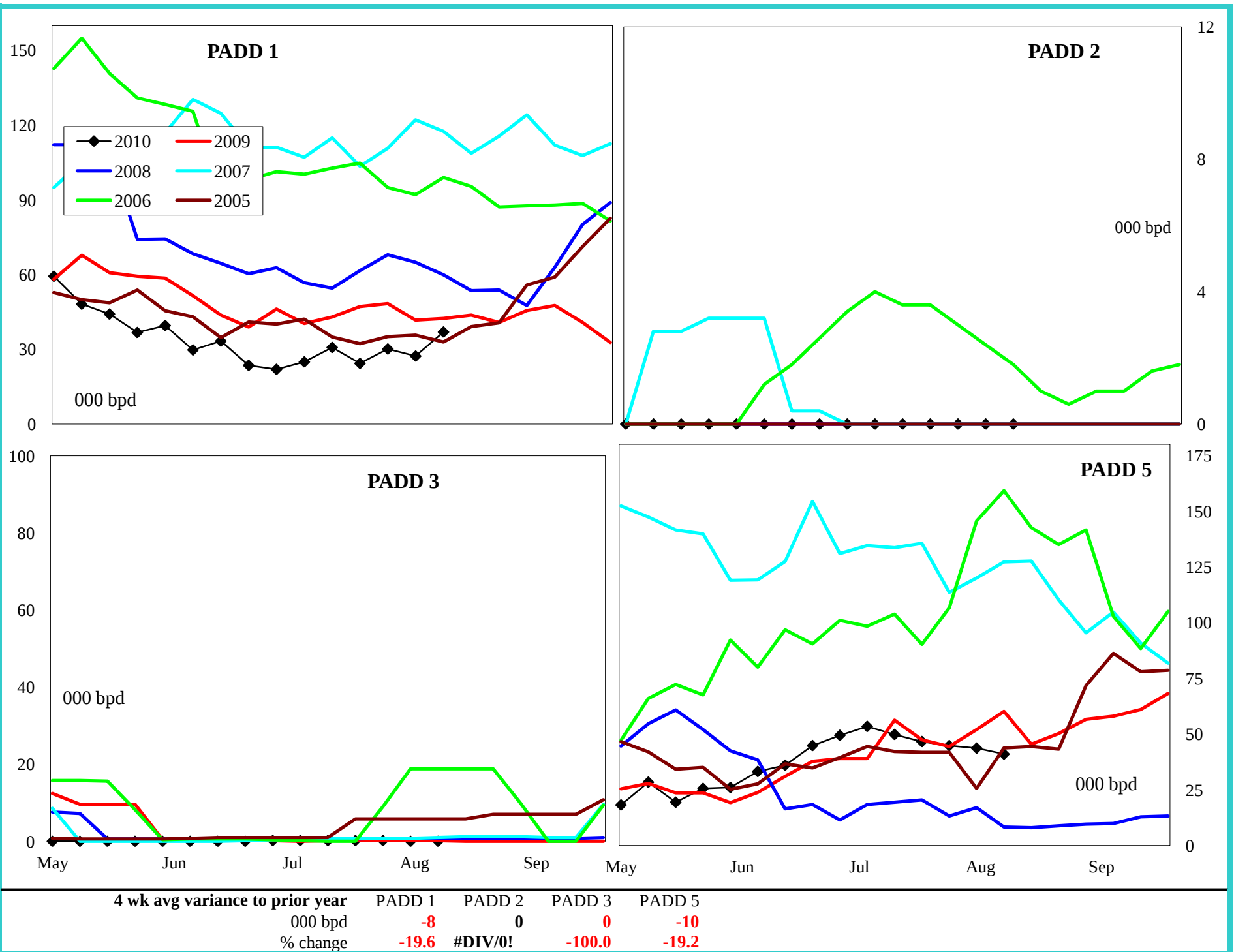
# Gasoline Imports by PADD (Finished + Blend Stocks)



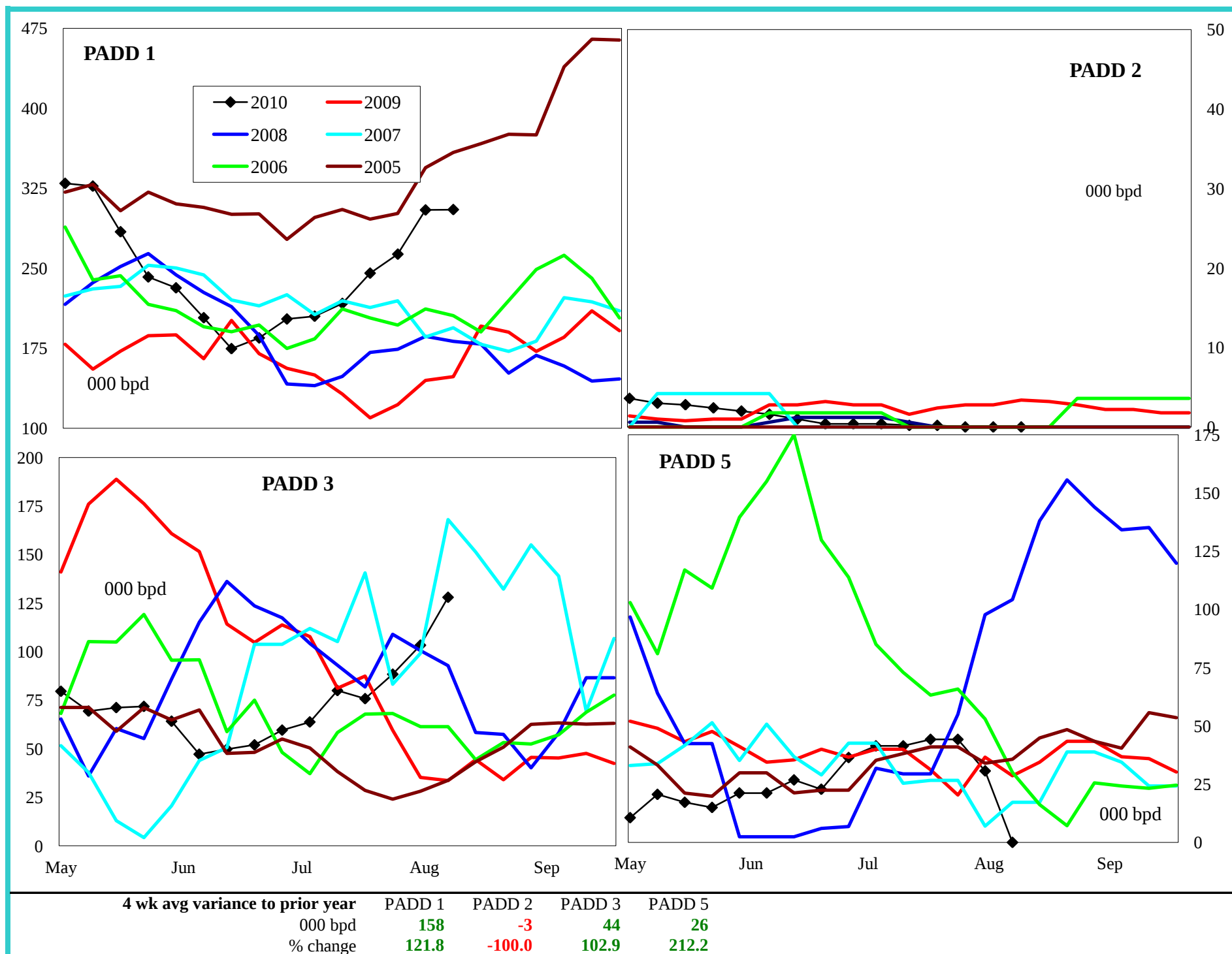
# Distillate Imports by PADD



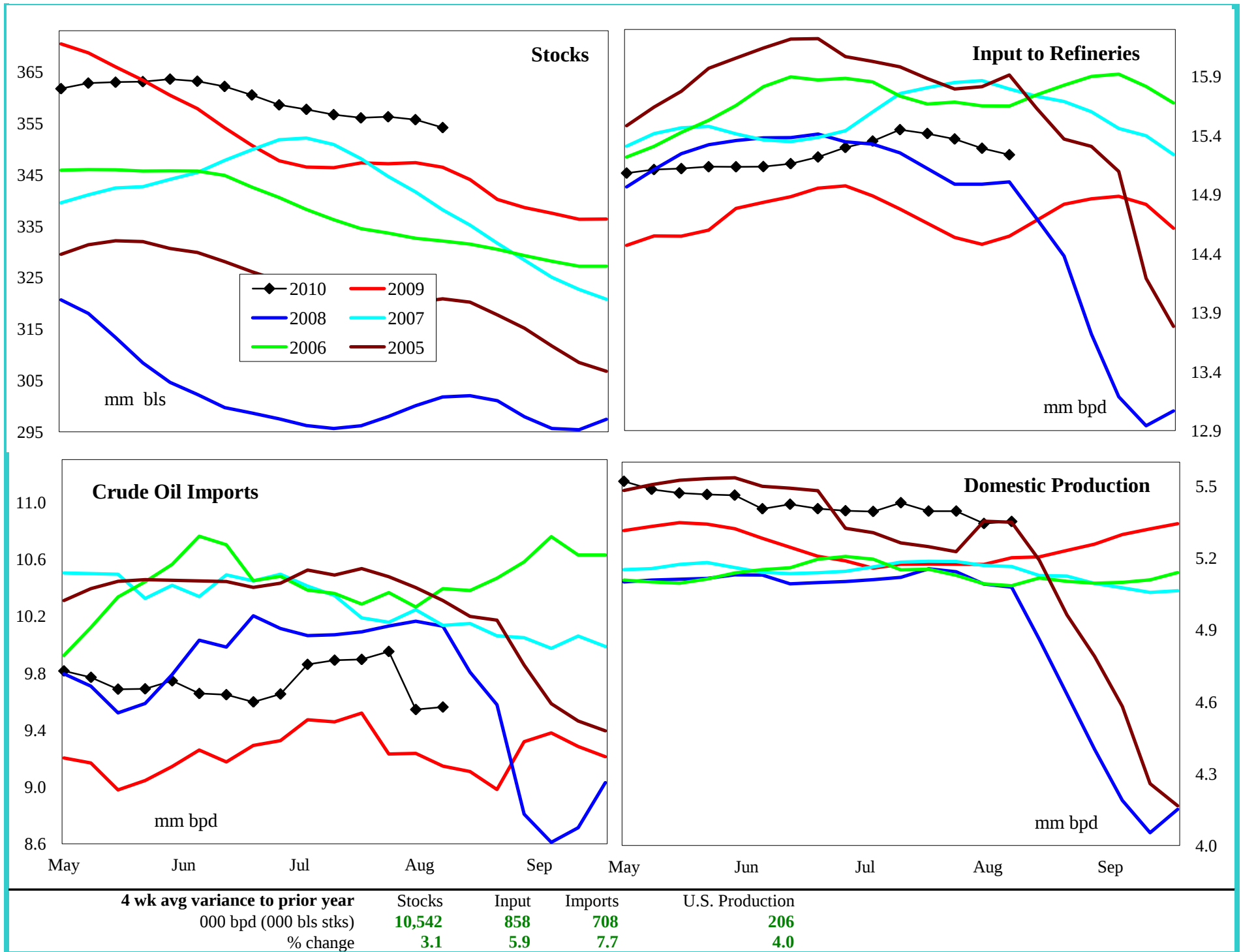
# Jet Fuel Imports by PADD



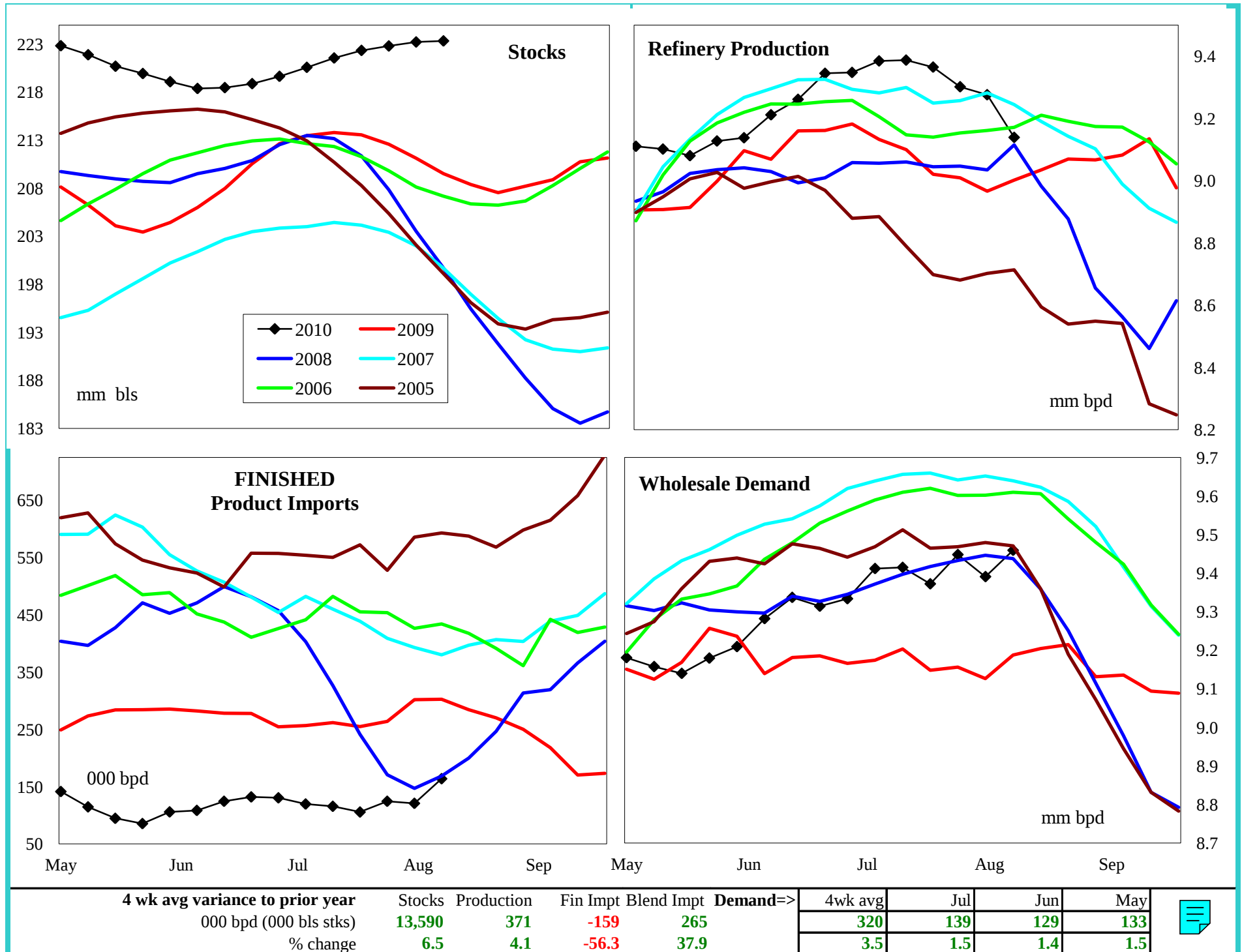
## Residual Fuel Oil Imports by PADD



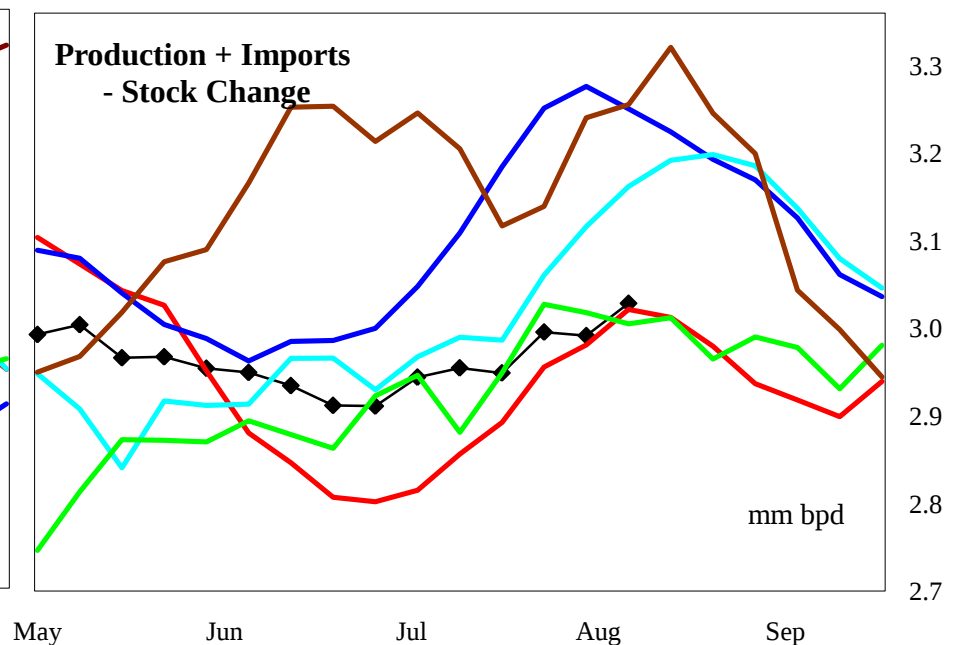
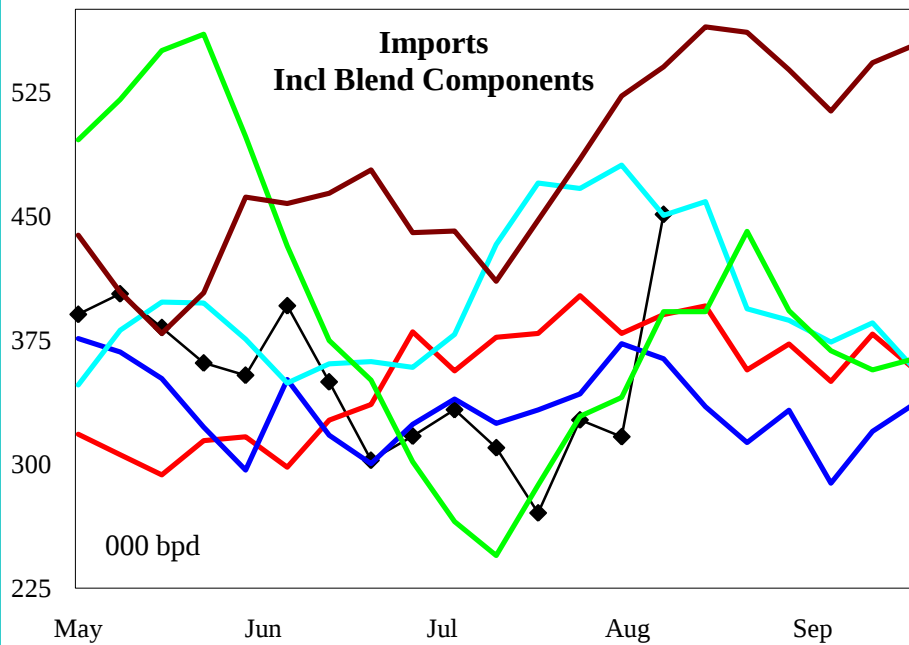
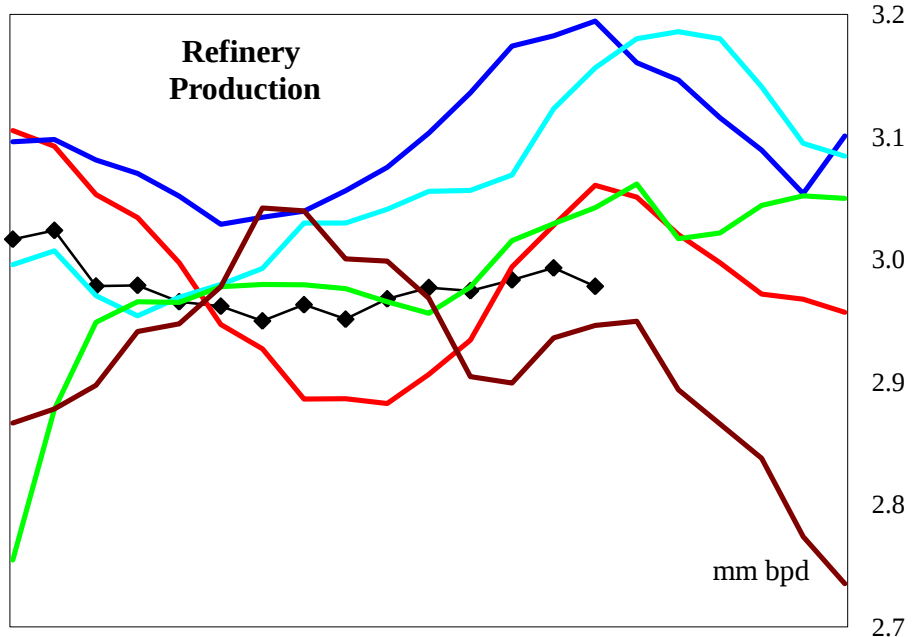
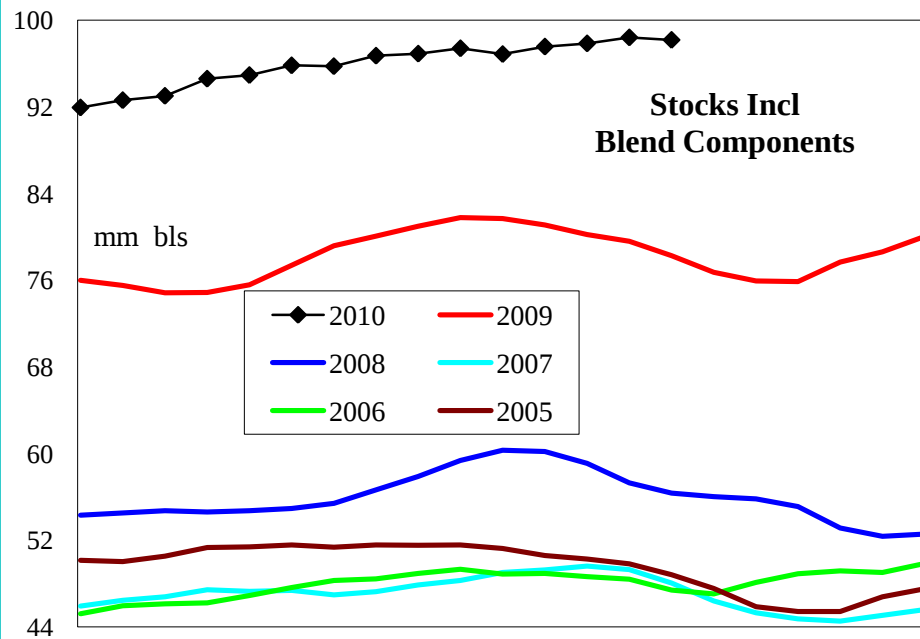
# United States Crude Oil Supply and Demand Balance



# United States Gasoline Supply and Demand Balance



# United States Reformulated Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

19,909

-4

-46

28

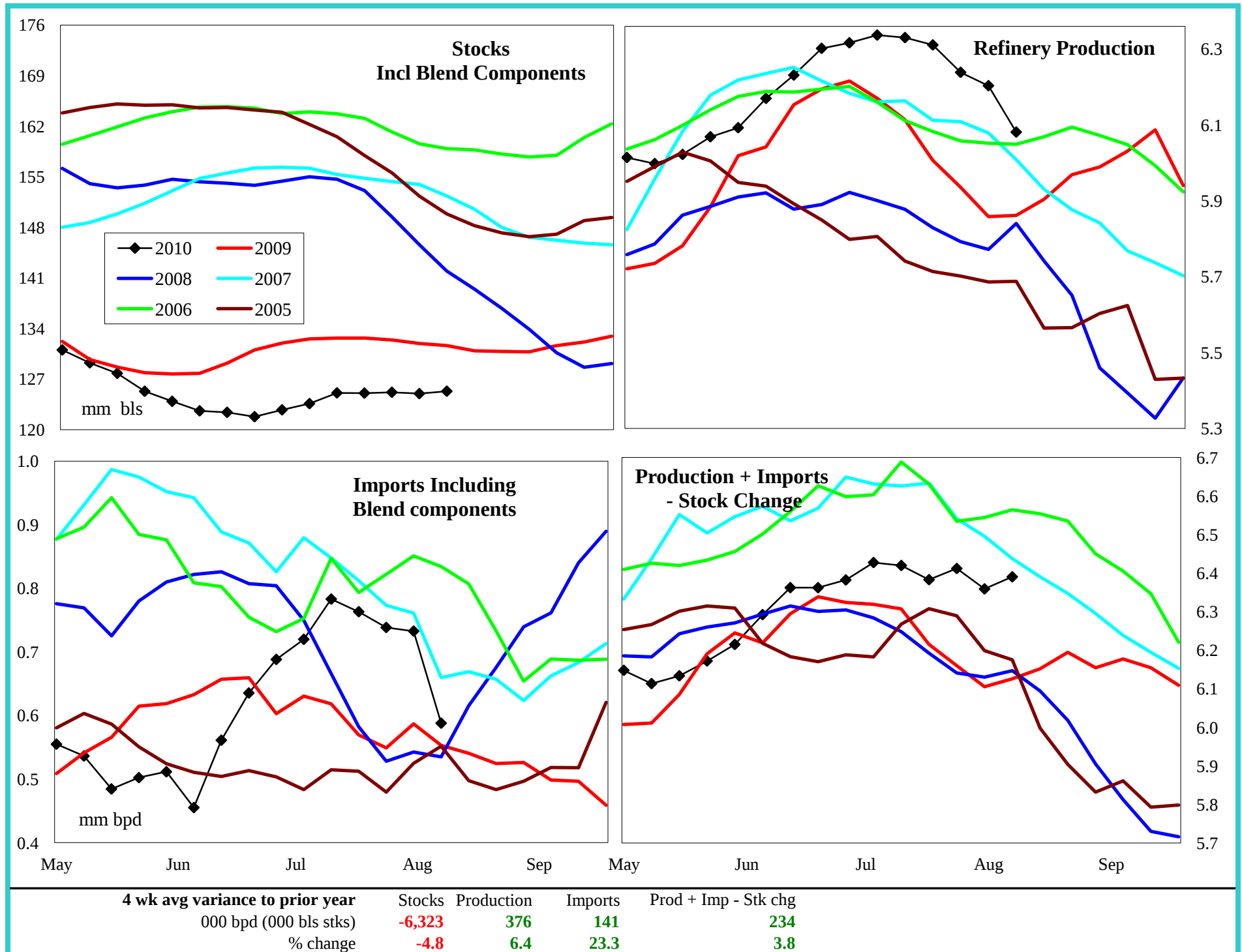
25.4

-0.1

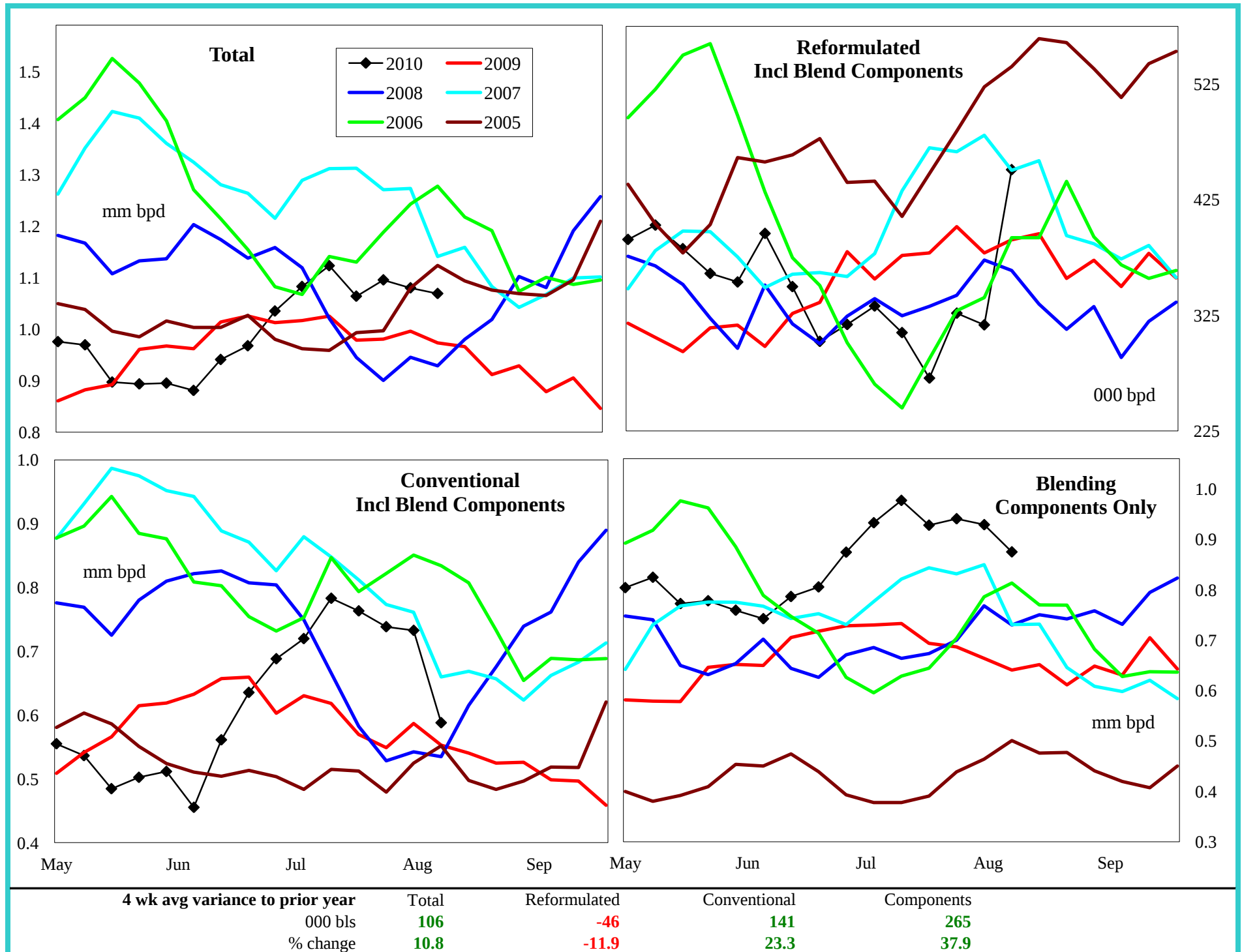
-11.9

0.9

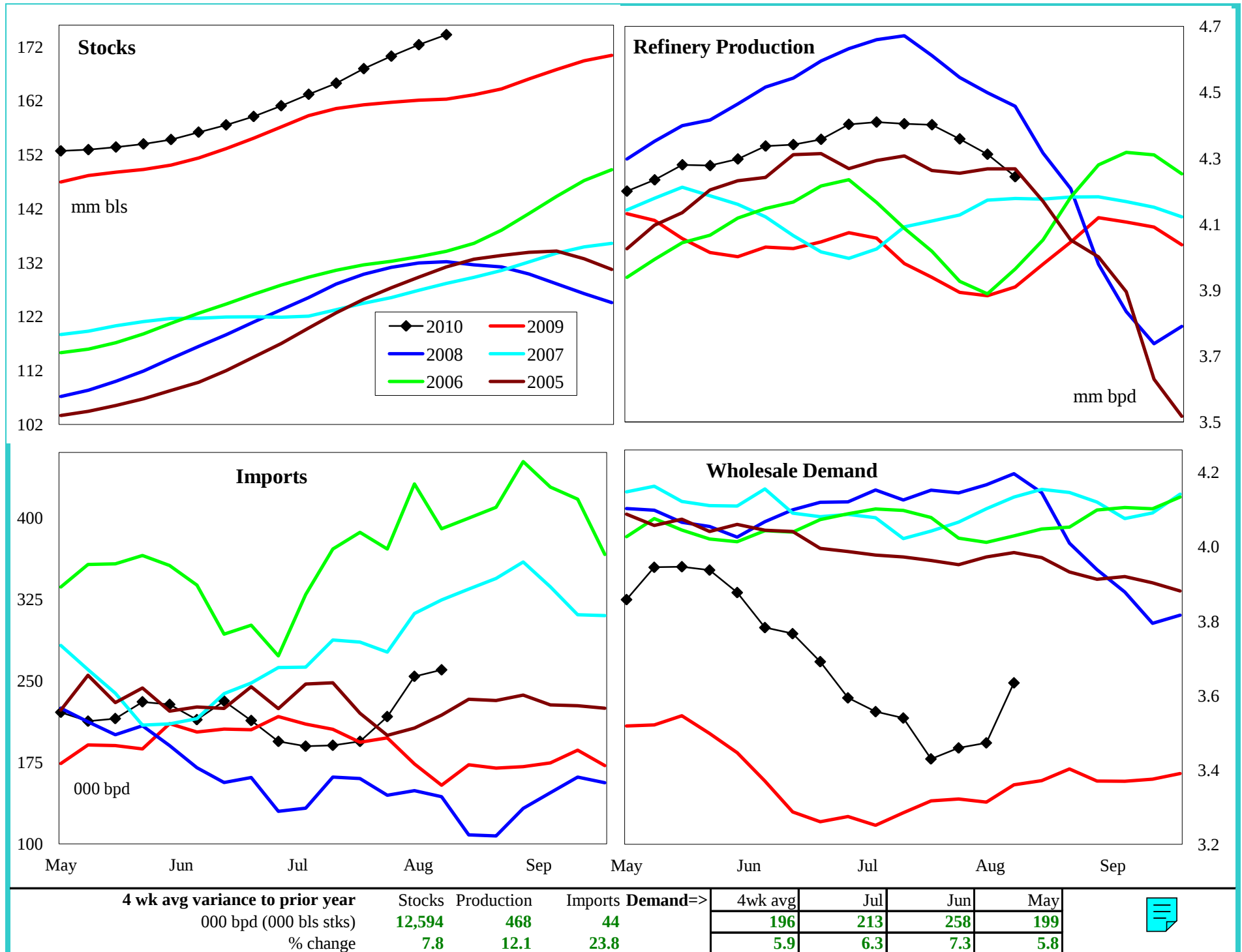
# United States Conventional Gasoline Supply



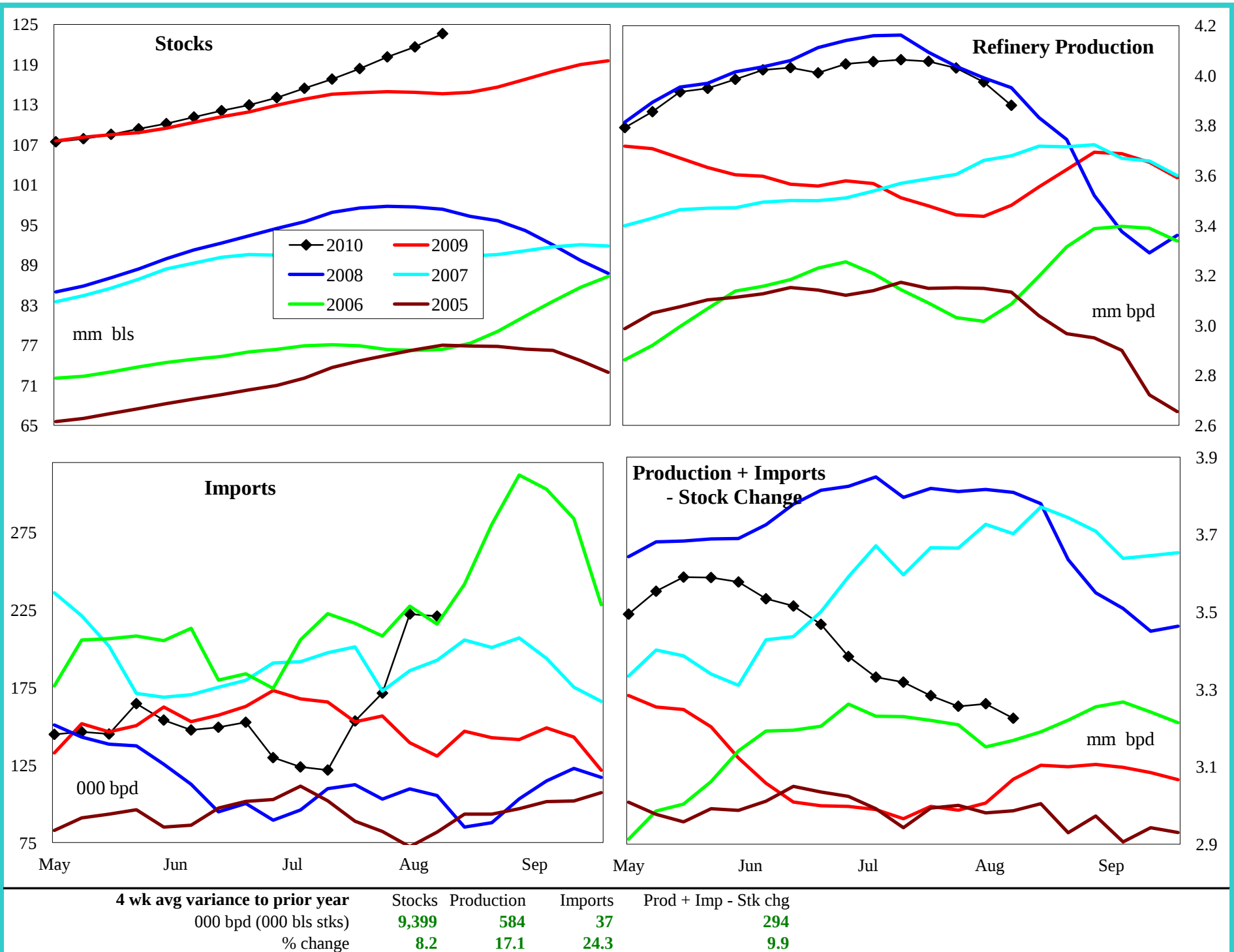
# United States Gasoline Imports by Type



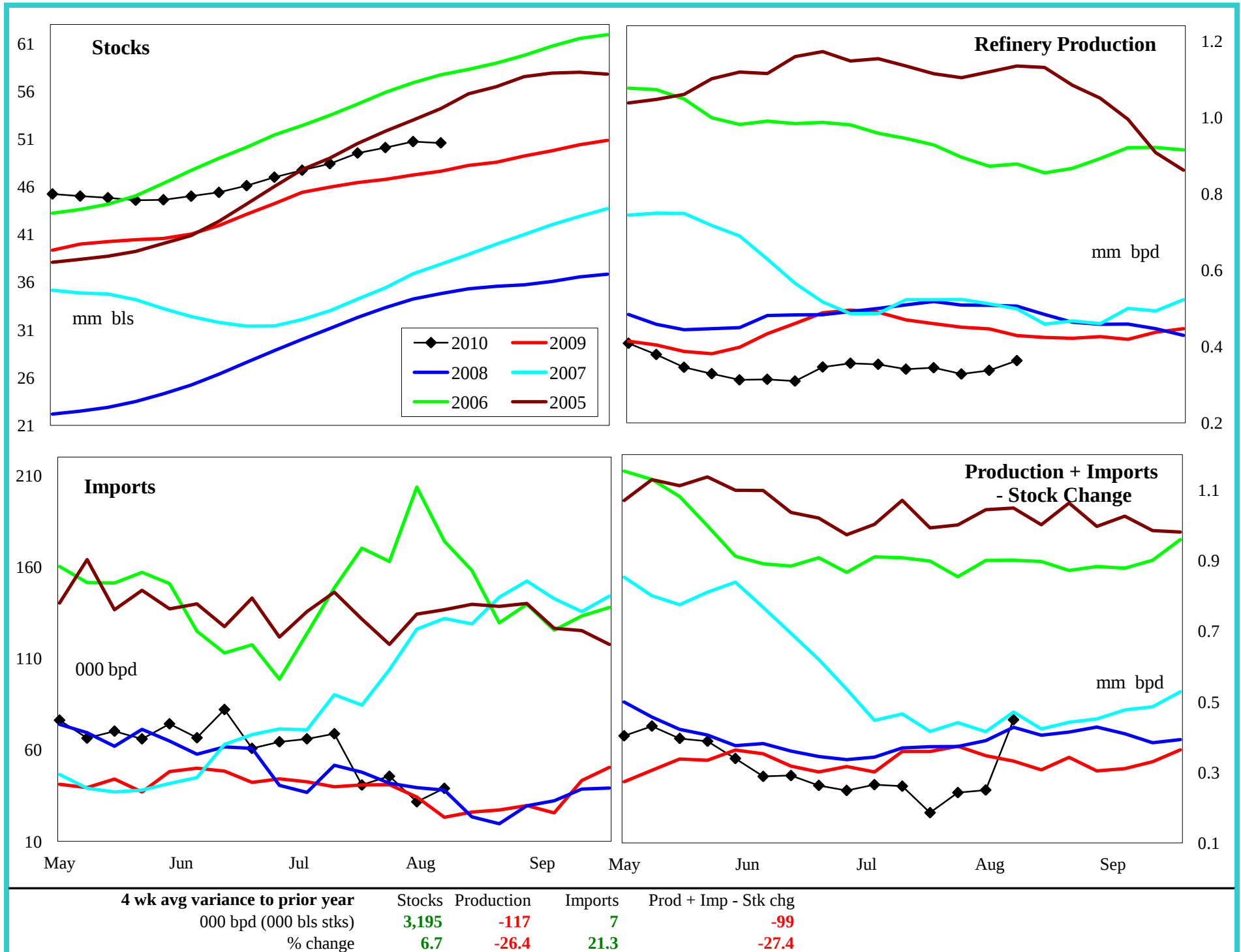
# United States Distillate Supply and Demand Balance



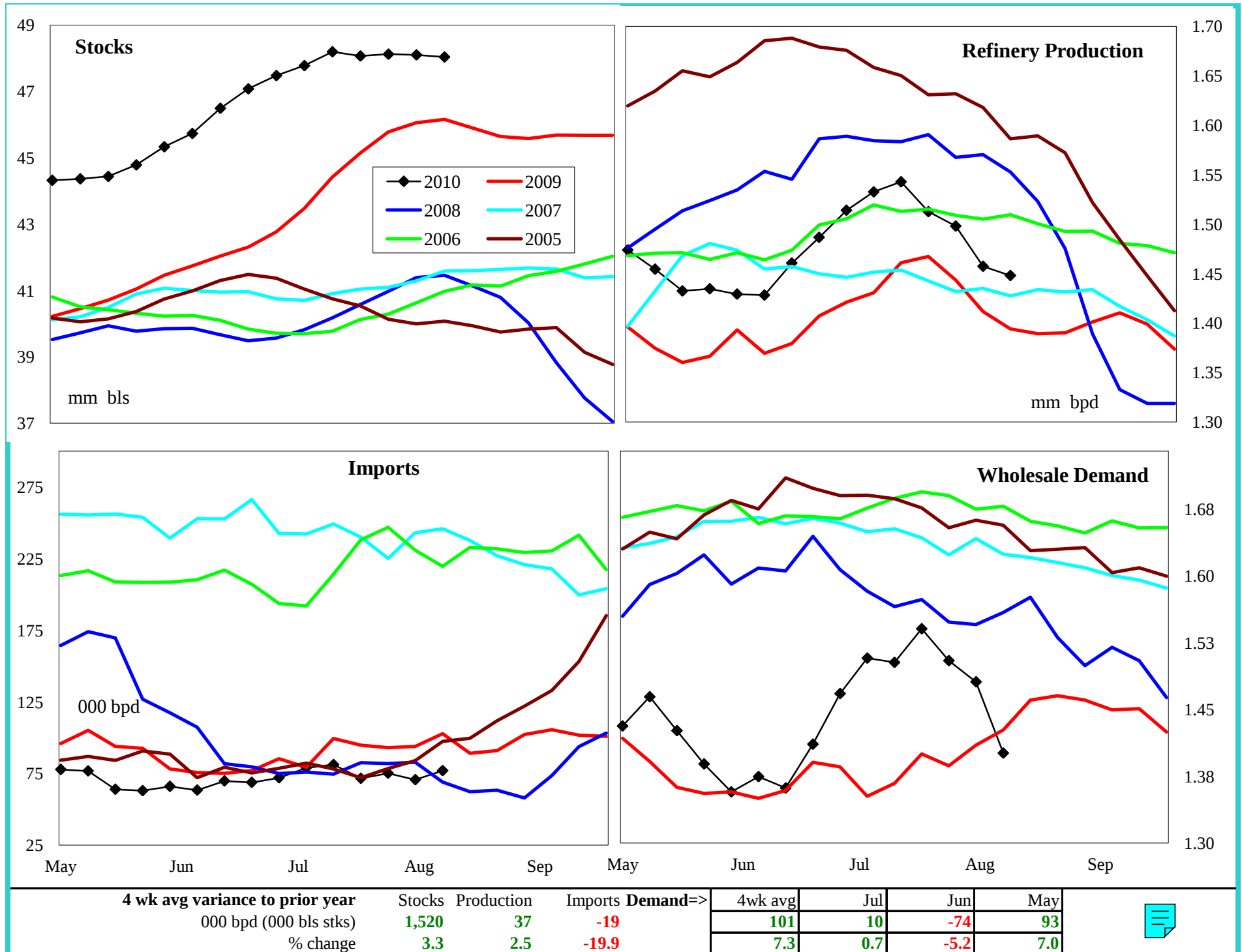
# United States Low Sulfur Distillate Supply



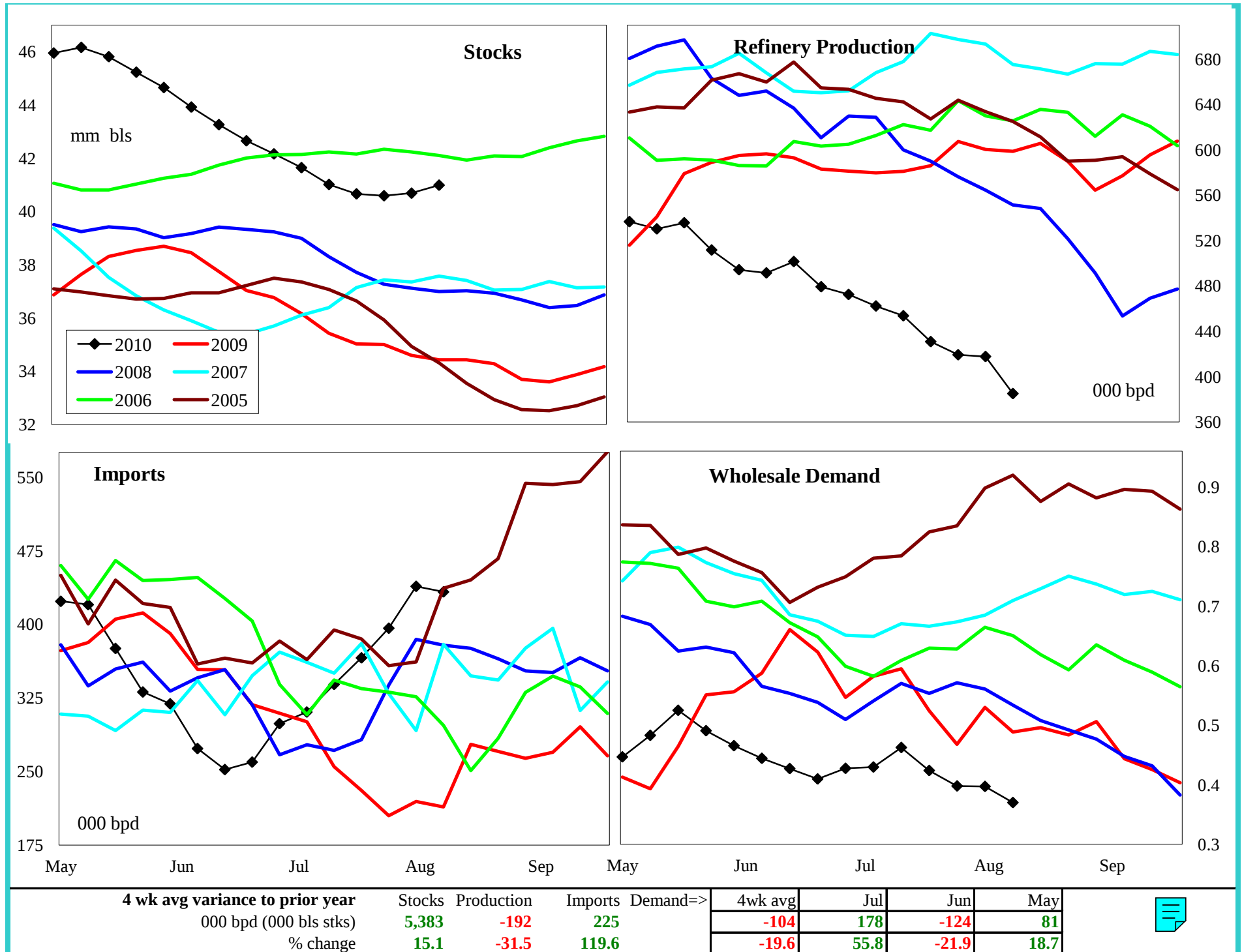
# United States High Sulfur Distillate Supply



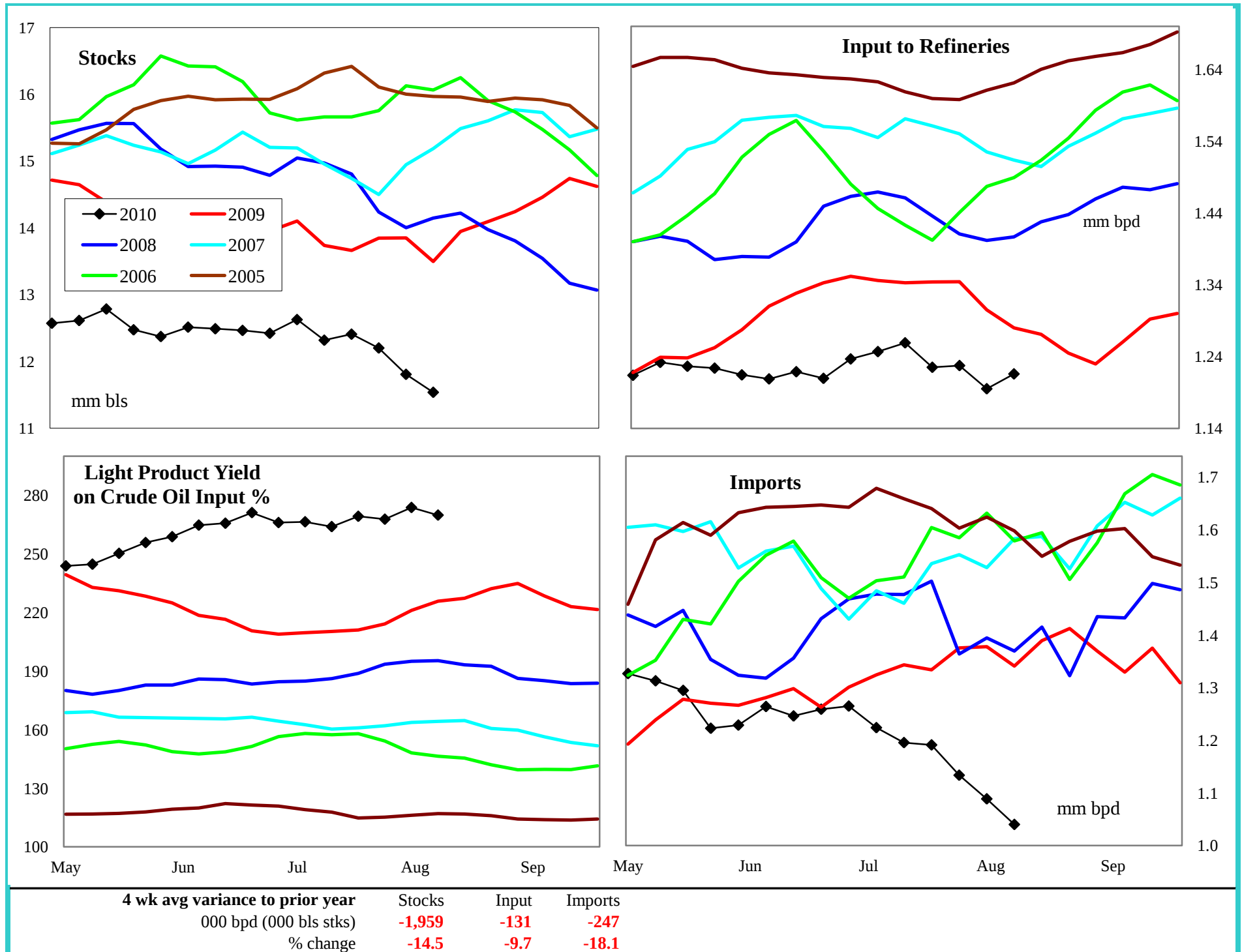
# United States Jet Fuel Supply and Demand Balance



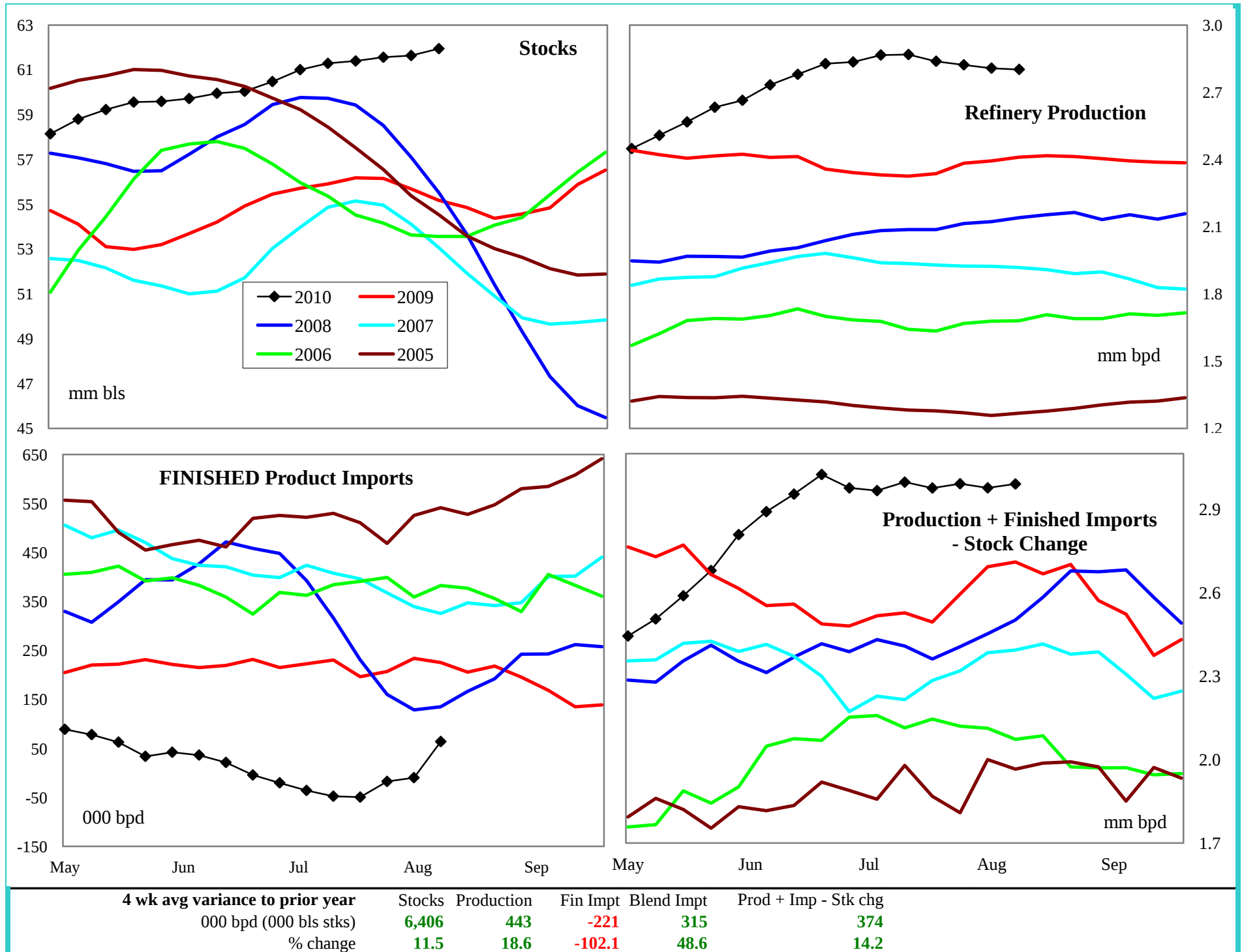
# United States Residual Fuel Oil Supply and Demand Balance



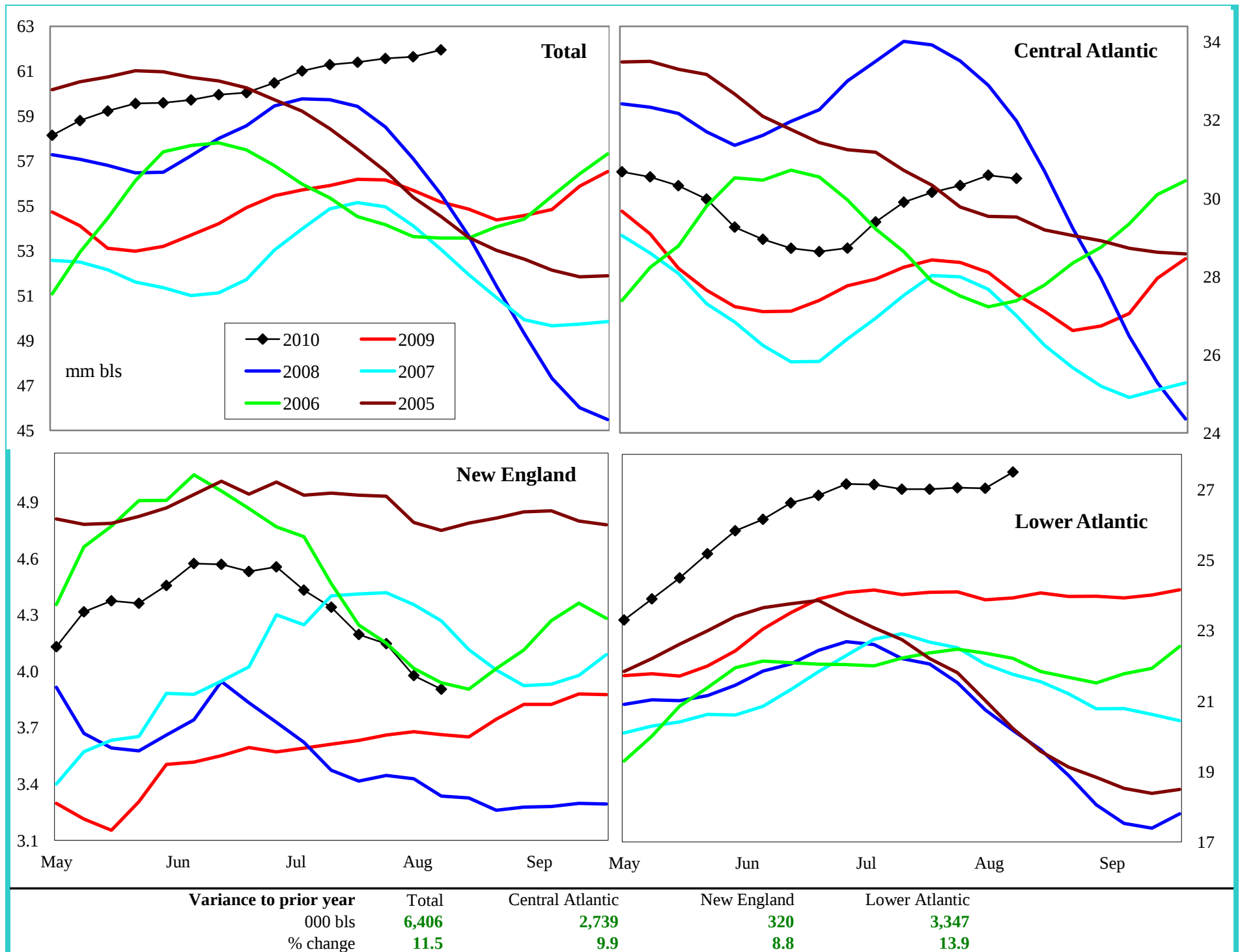
# PADD 1 Crude Oil Supply and Refining



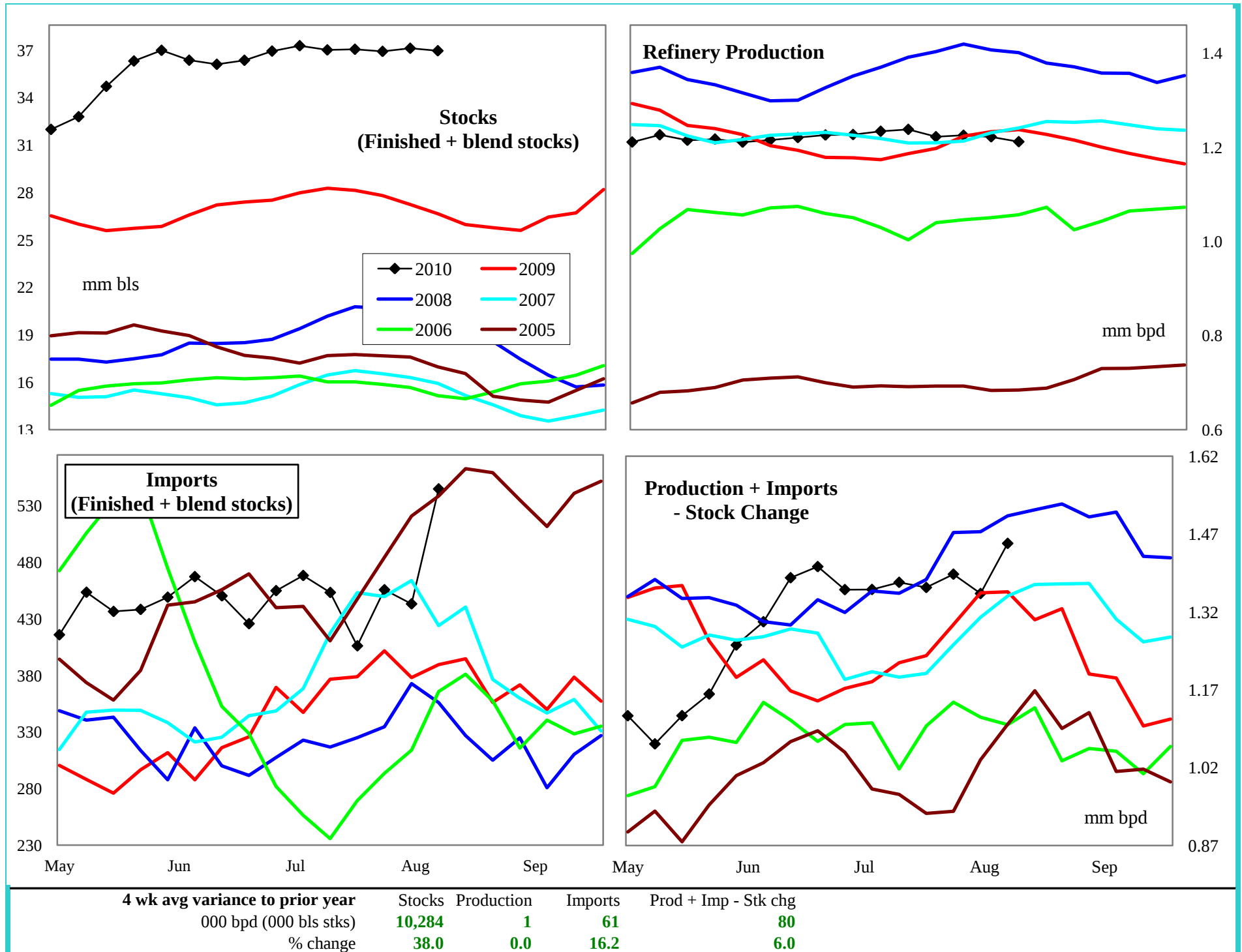
# PADD 1 Gasoline Supply



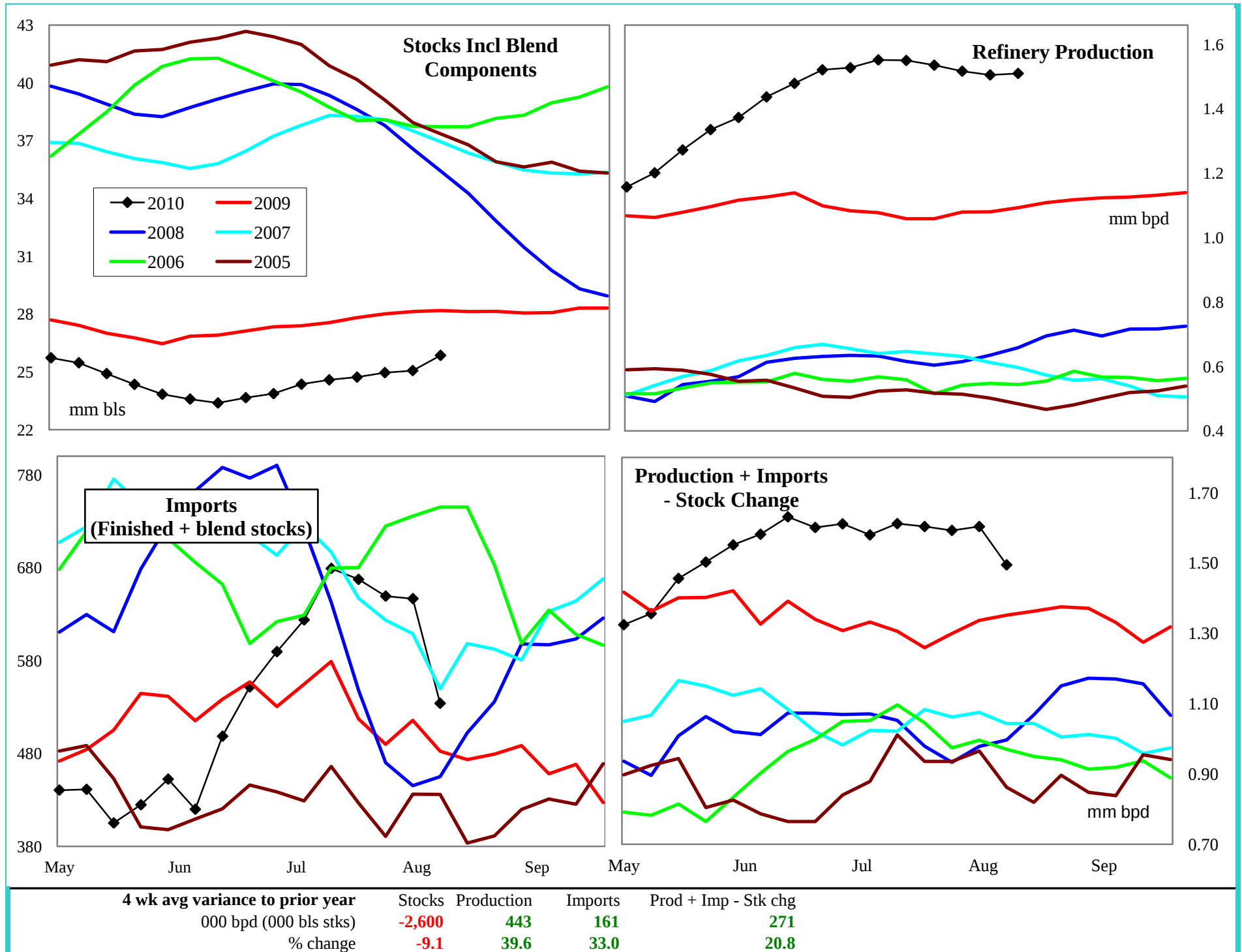
# PADD 1 Gasoline Stocks by Region



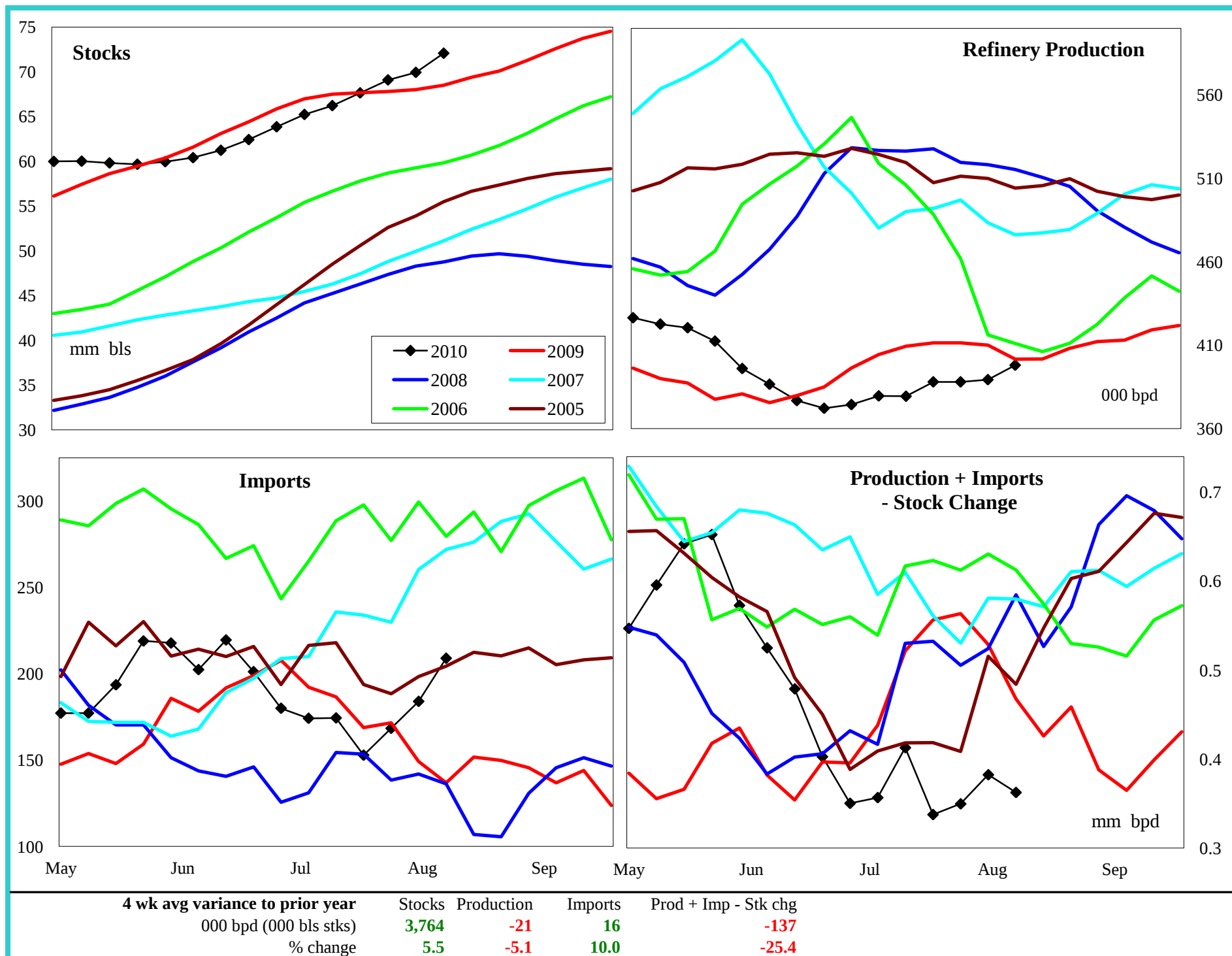
# PADD 1 Reformulated Gasoline Supply



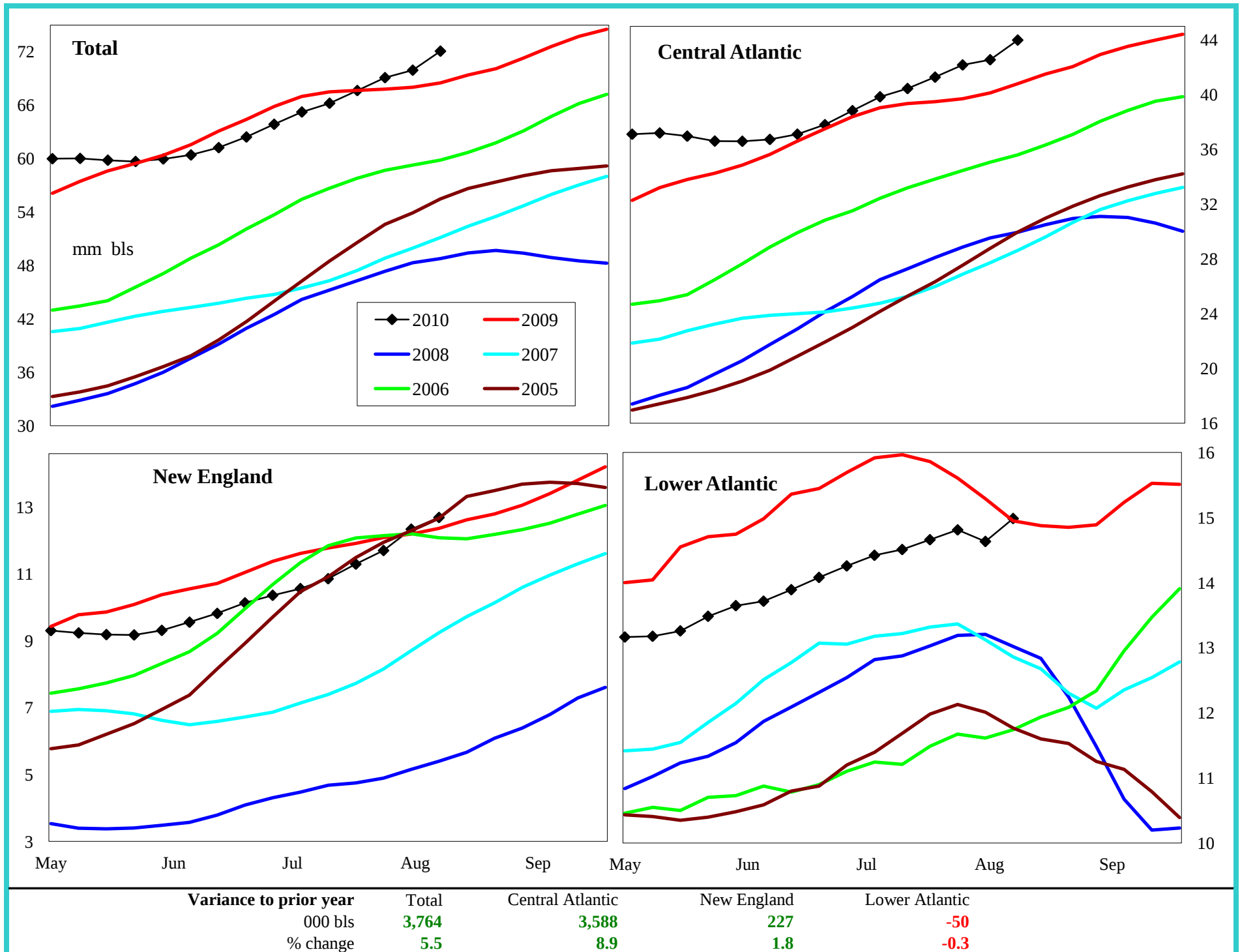
# PADD 1 Conventional Gasoline Supply



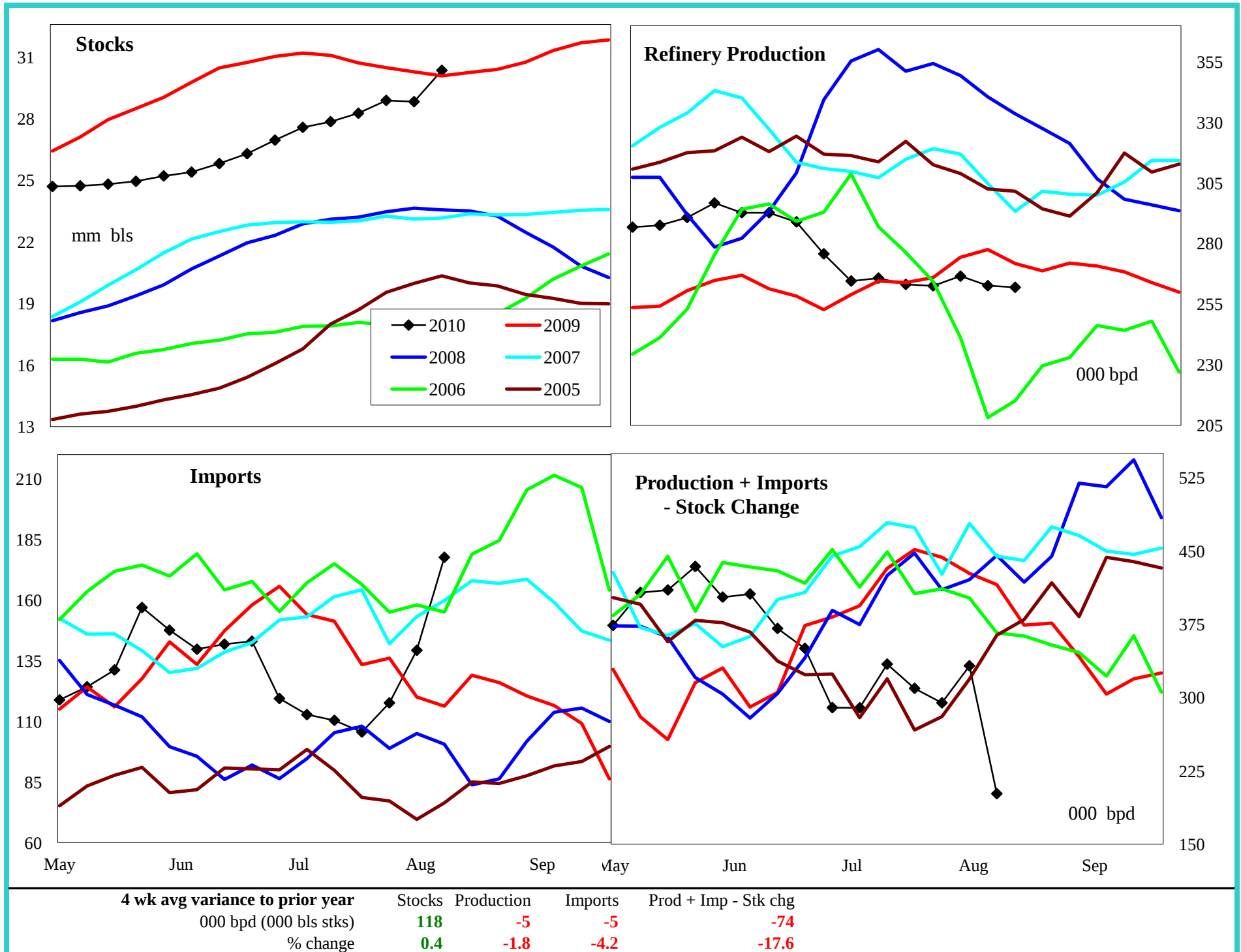
# PADD 1 Distillate Supply



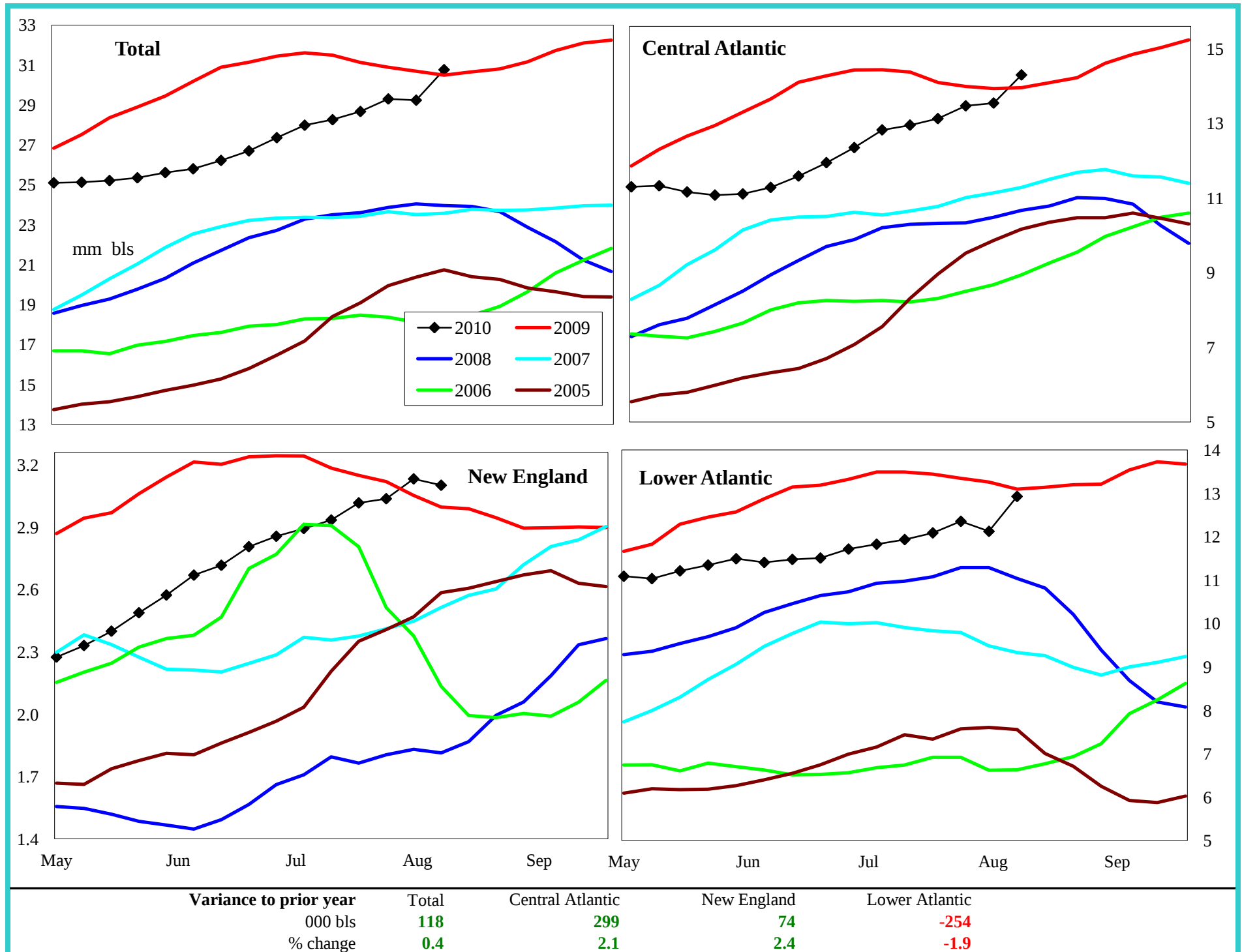
## PADD 1 Distillate Stocks by Region



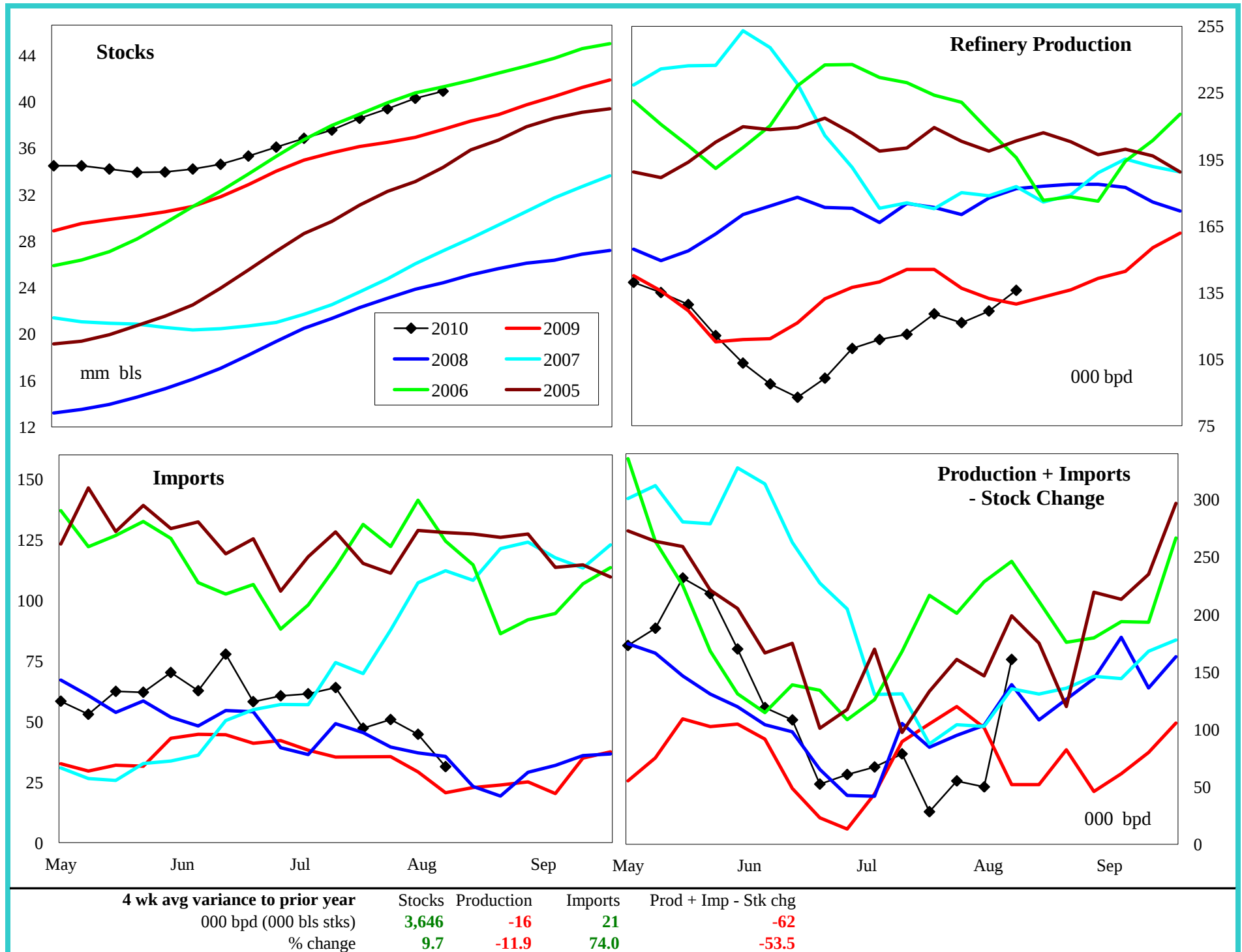
# PADD 1 Low Sulfur Distillate Supply



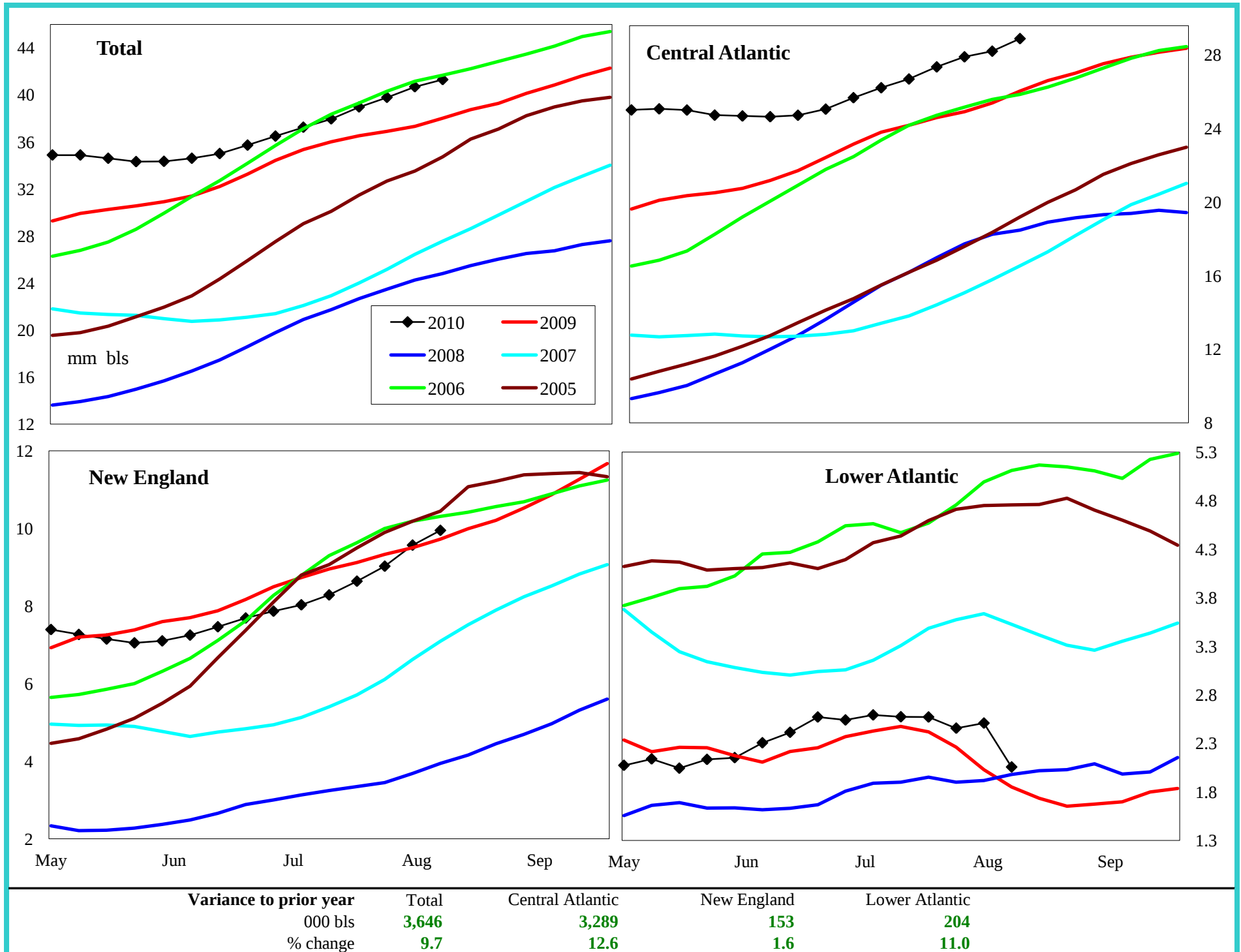
# PADD 1 Low Sulfur Distillate Stocks by Region



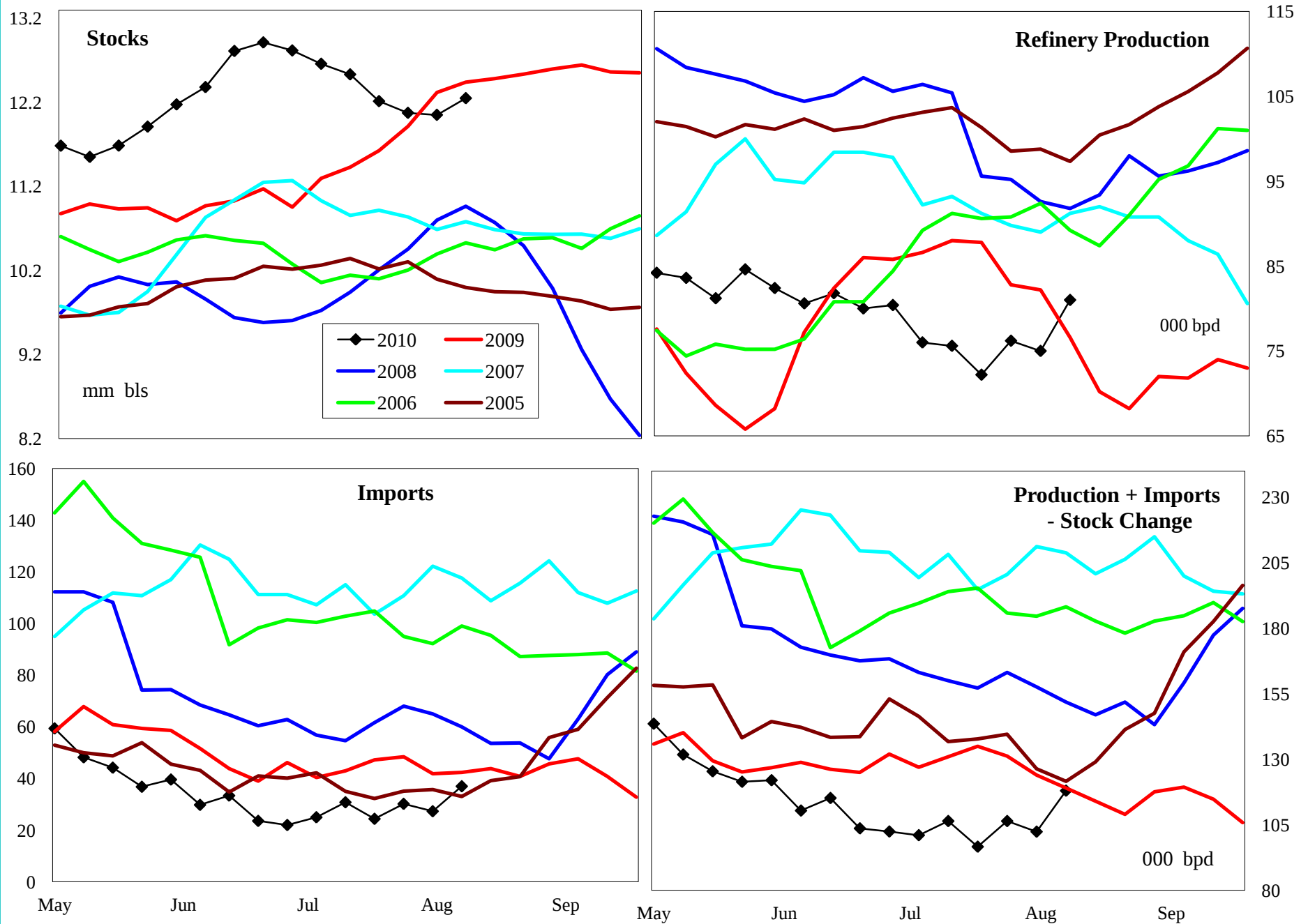
# PADD 1 High Sulfur Distillate Supply



# PADD 1 High Sulfur Distillate Stocks by Region



# PADD 1 Jet Fuel Supply



**4 wk avg variance to prior year**

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

-192

-6

-8

-22

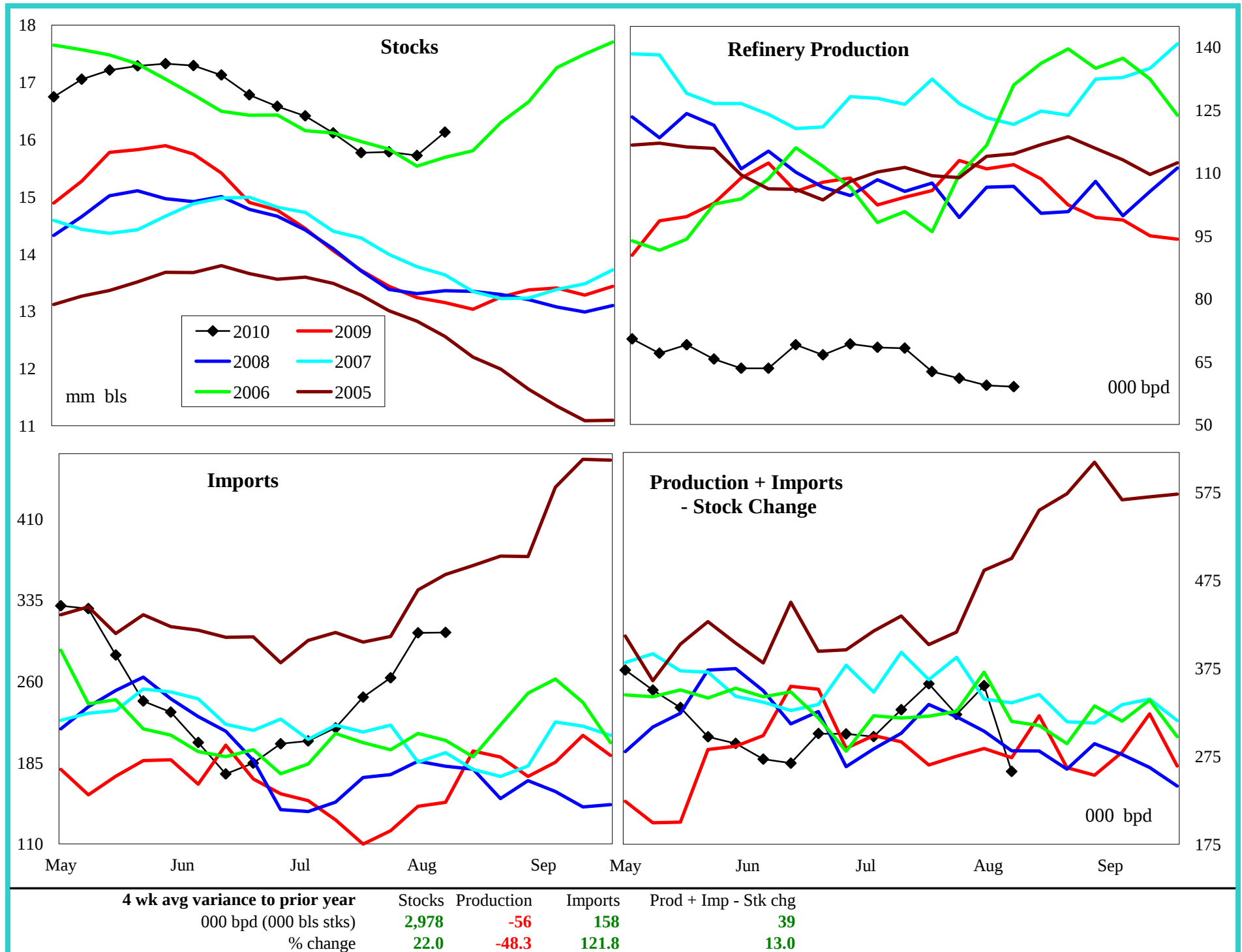
-1.5

-7.6

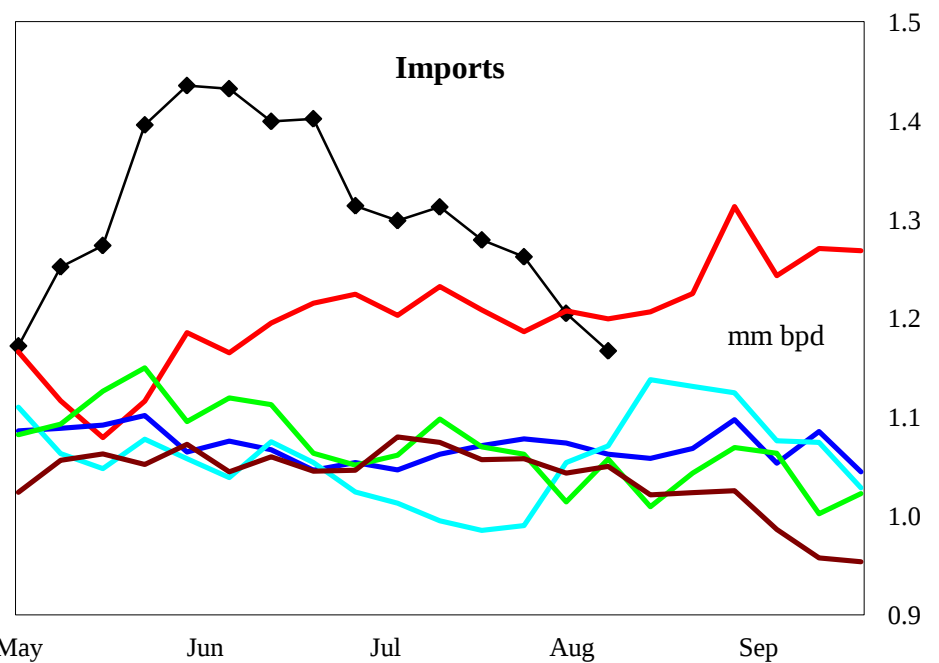
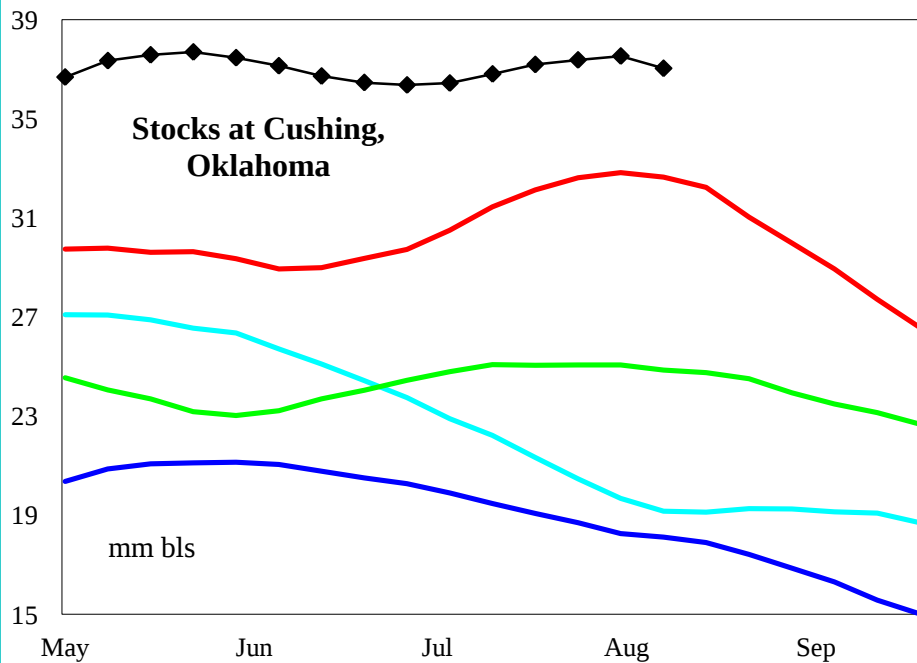
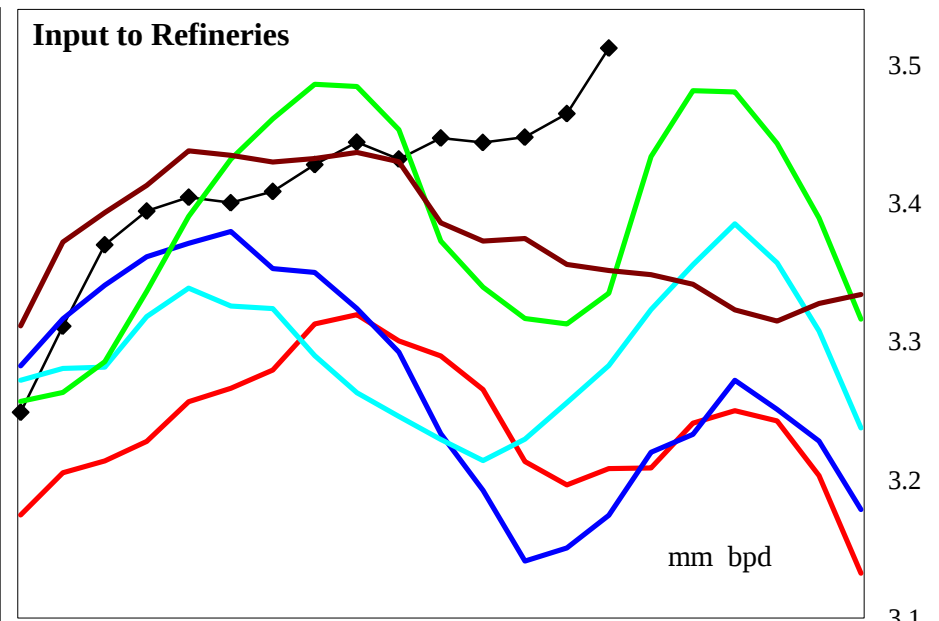
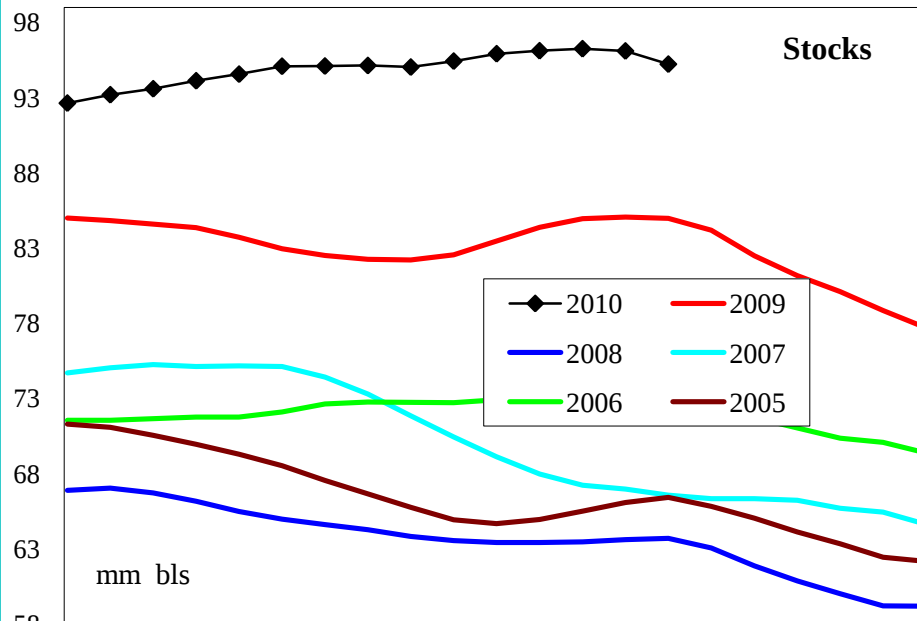
-19.6

-16.8

# PADD 1 Residual Fuel Oil Supply



# PADD 2 Crude Oil Supply and Refining



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

**10,267**

**12.1**

Cushing

**4,393**

**13.5**

Input

**255**

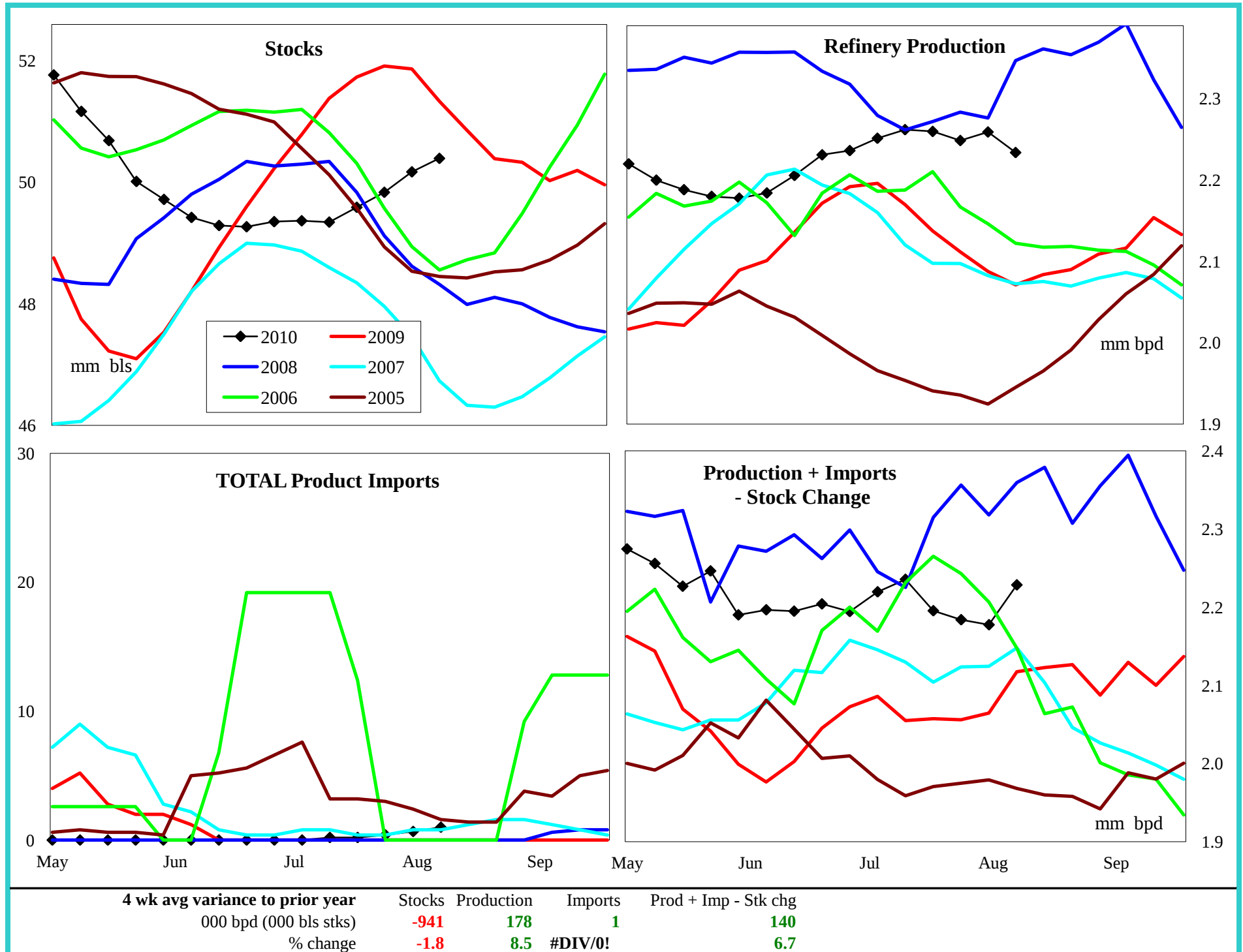
**8.0**

Imports

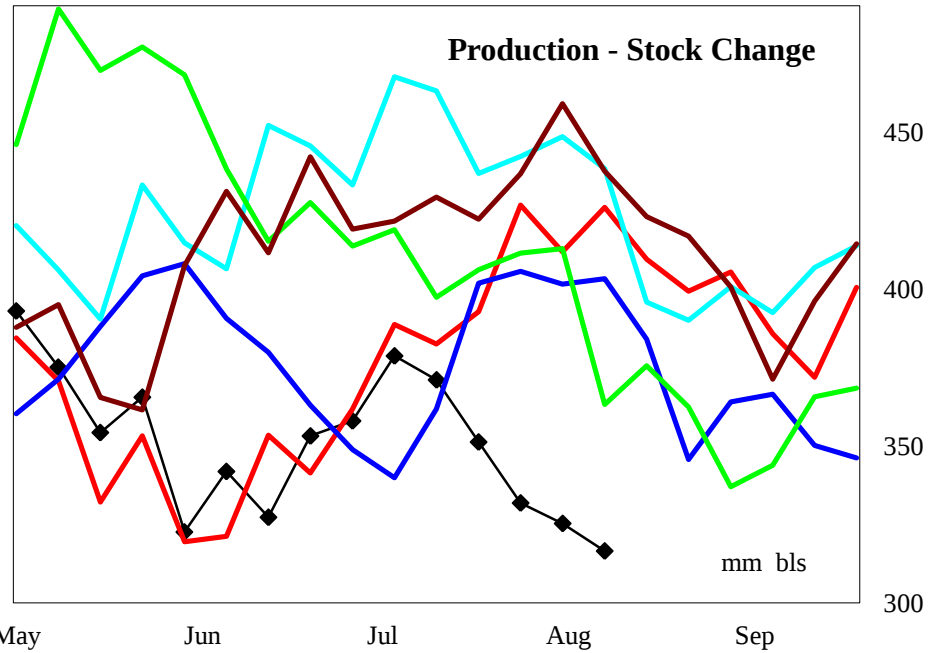
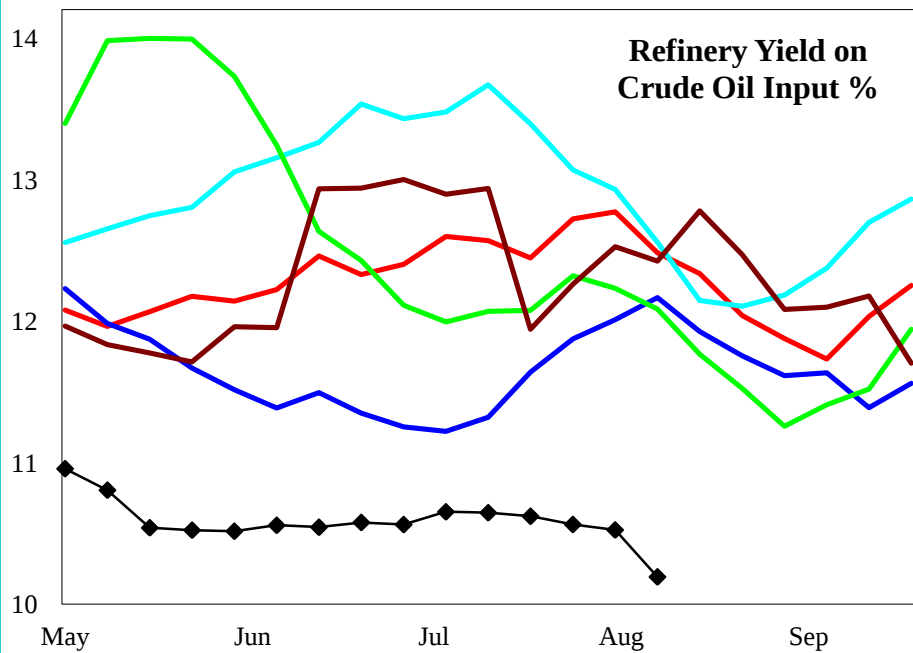
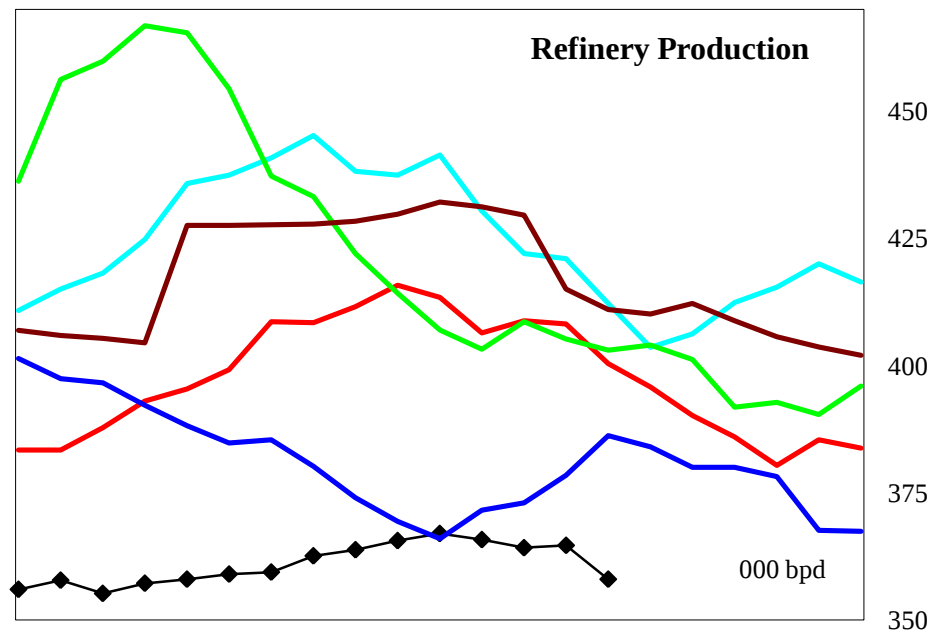
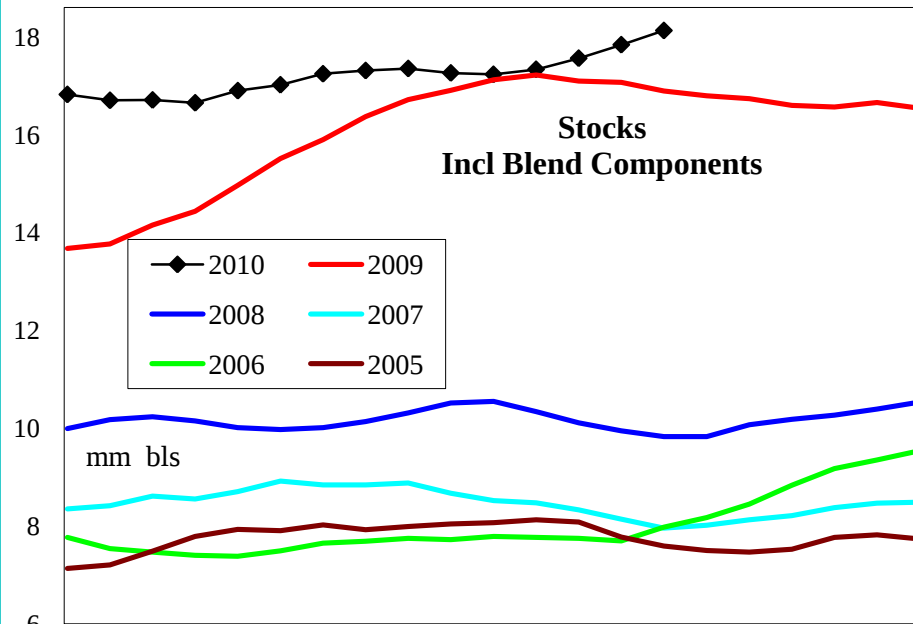
**70**

**5.8**

# PADD 2 Gasoline Supply



# PADD 2 Reformulated Gasoline Supply



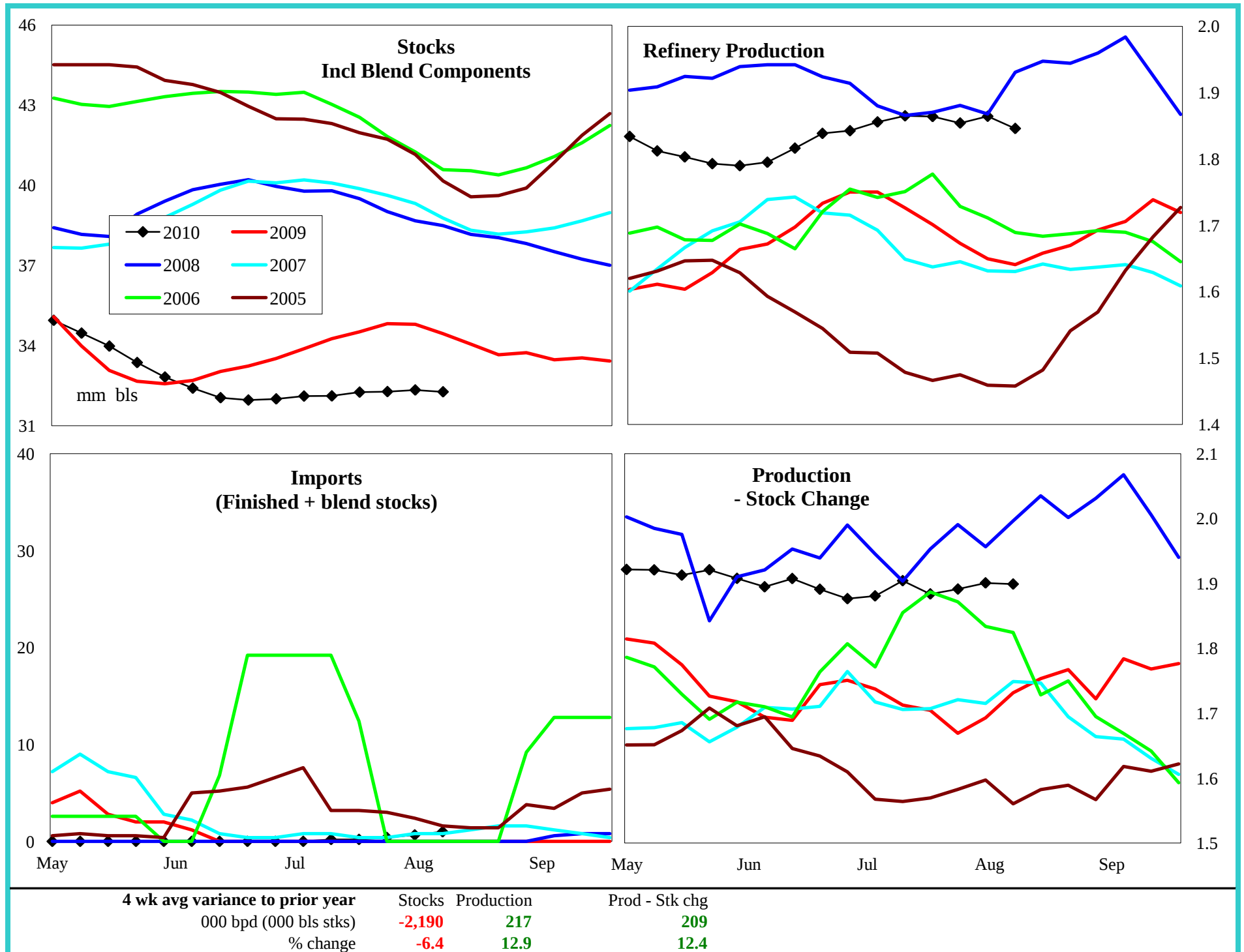
**4 wk avg variance to prior year**  
 000 bpd (000 bls stks)  
 % change

Stocks  
**1,234**  
**7.1**

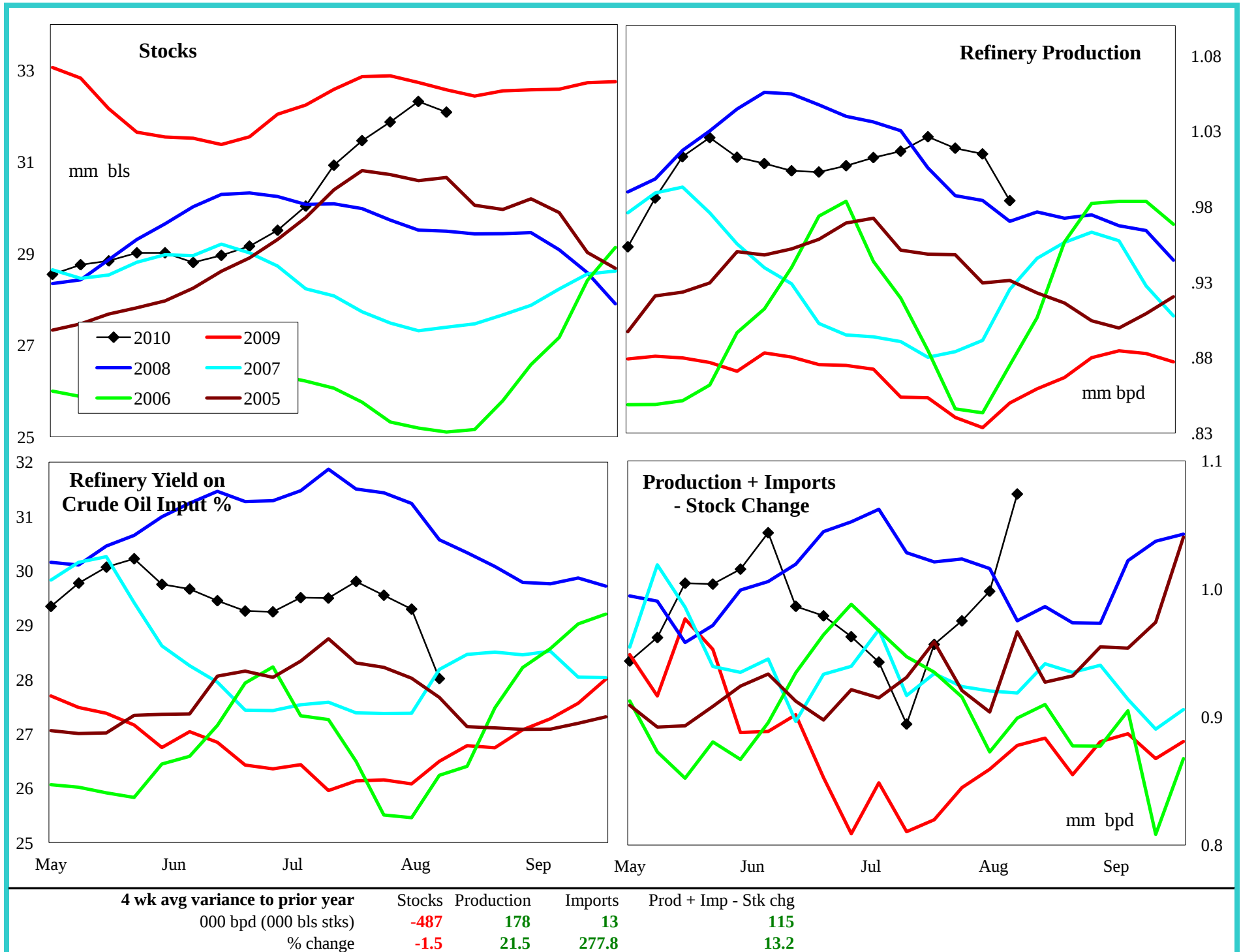
Production  
**-43**  
**-10.5**

Prod - Stk chg  
**-83**  
**-20.0**

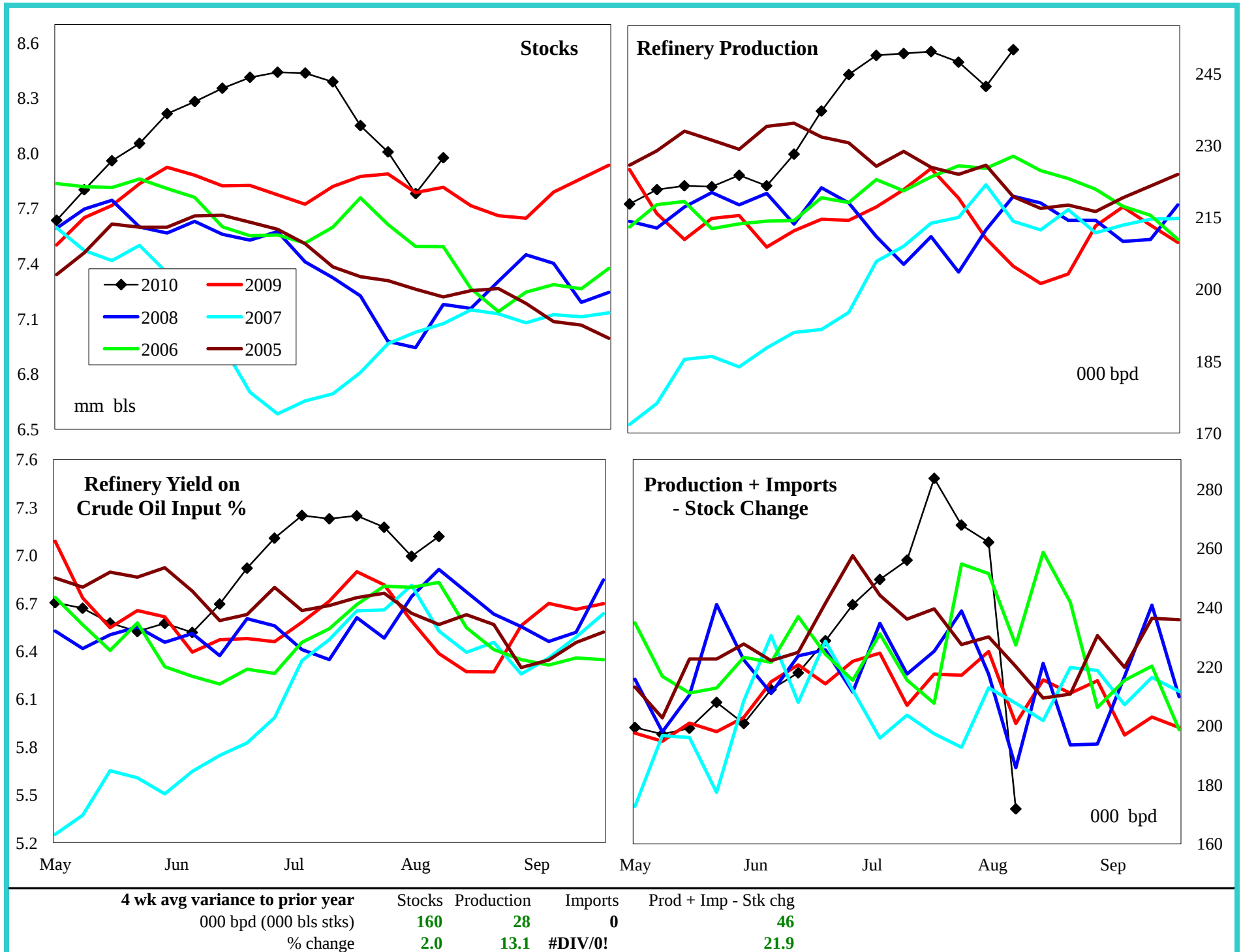
# PADD 2 Conventional Gasoline Supply



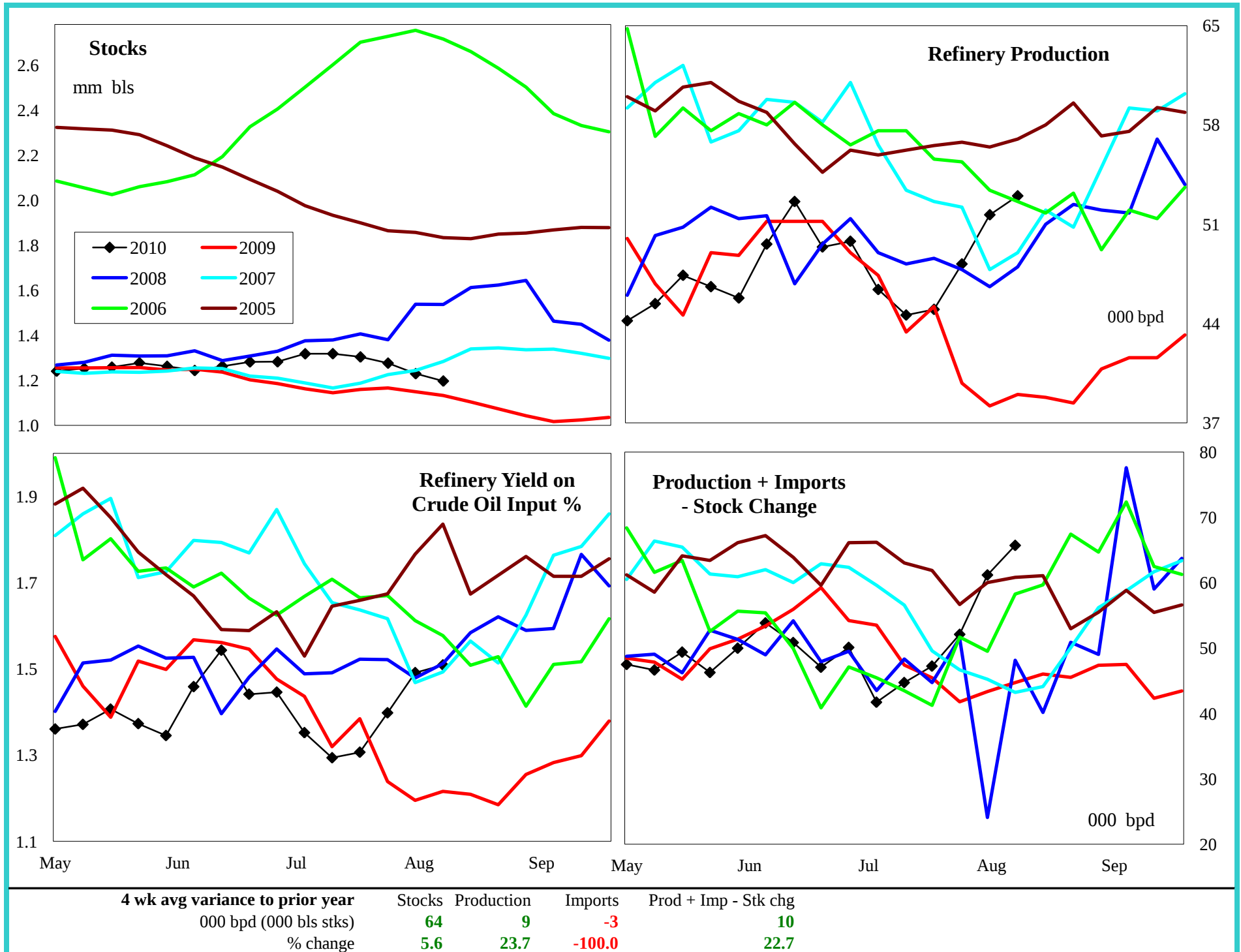
# PADD 2 Distillate Supply



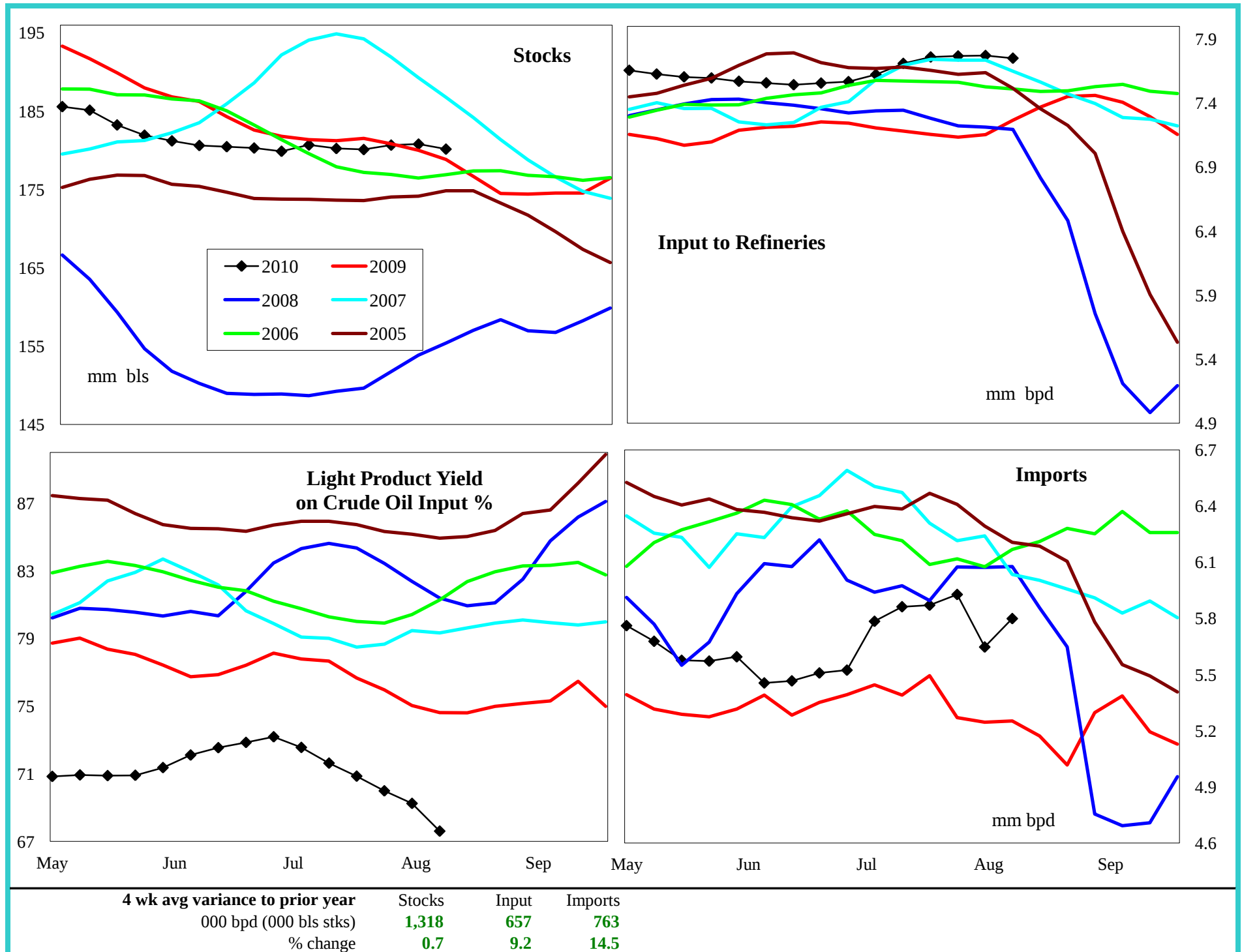
# PADD 2 Jet Fuel Supply



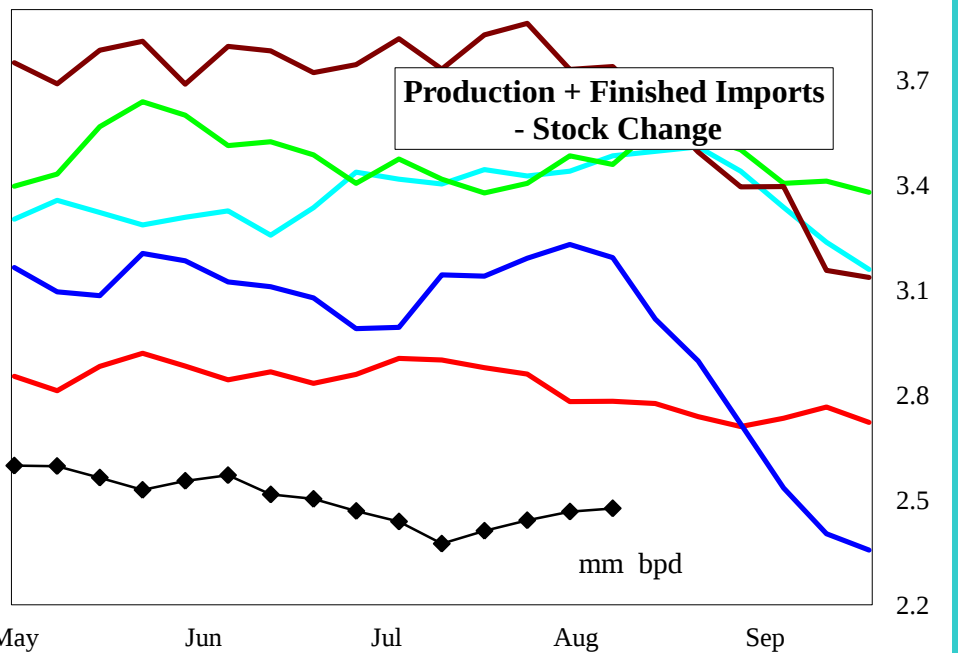
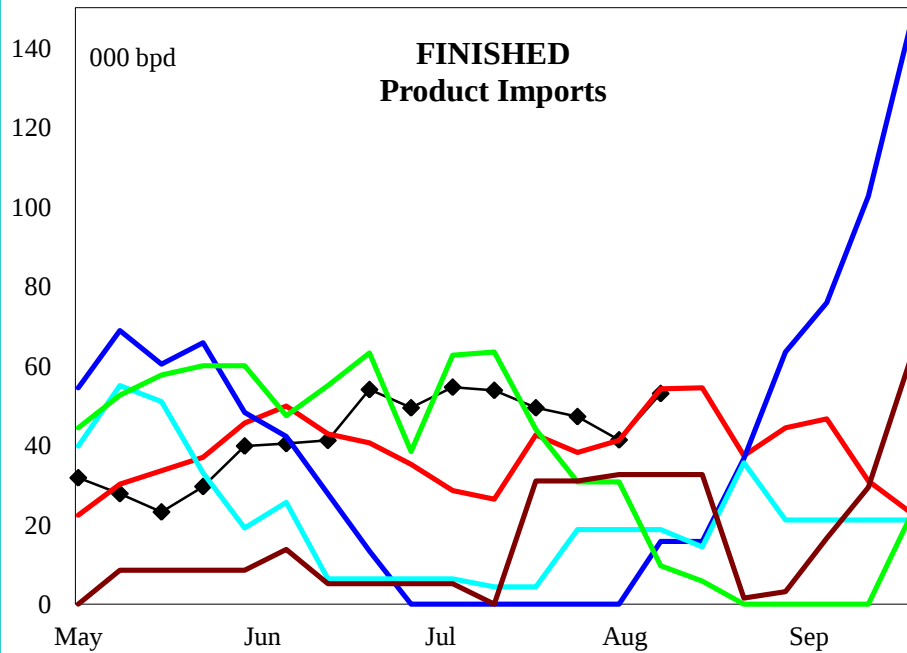
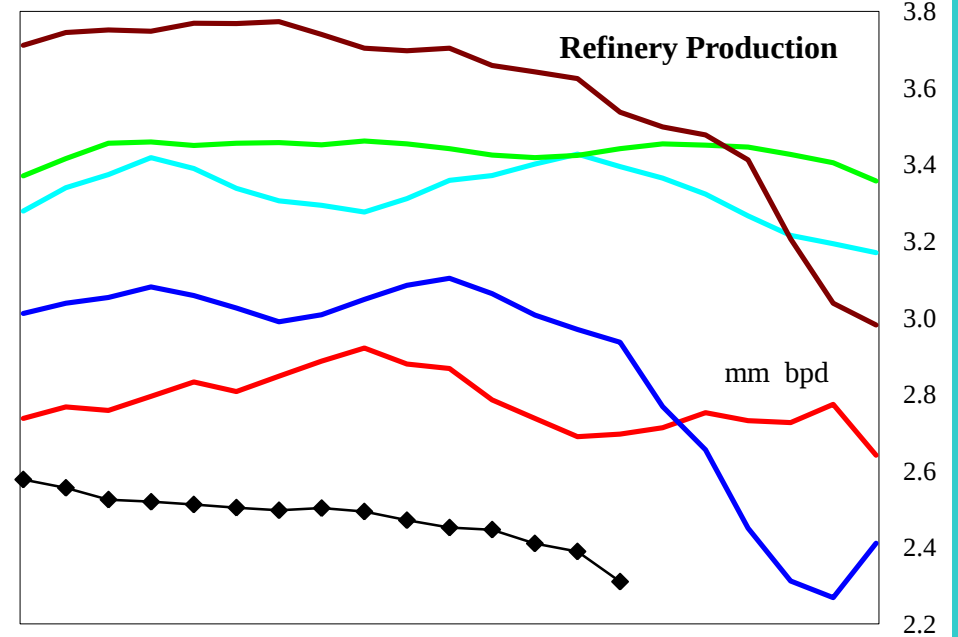
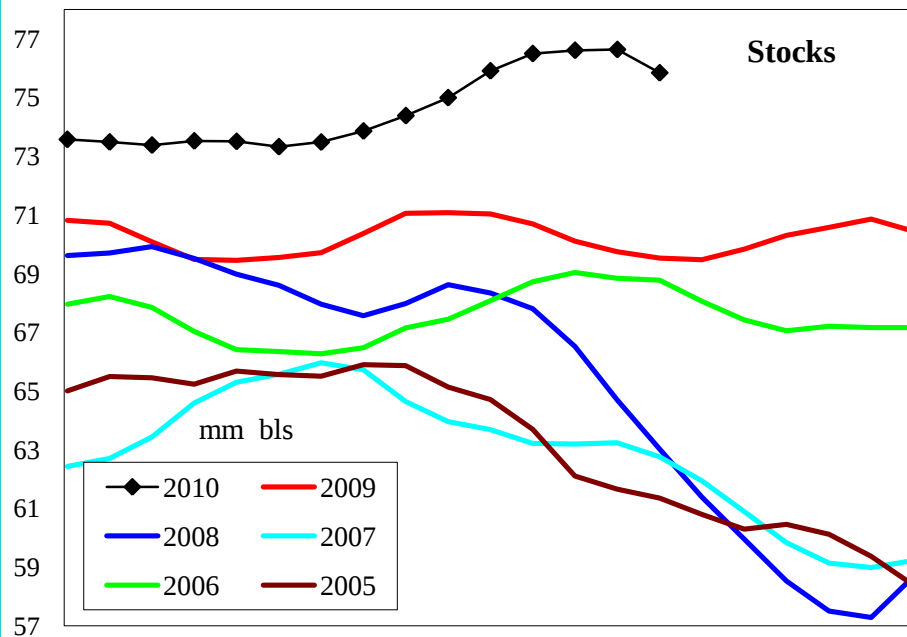
# PADD 2 Residual Fuel Oil Supply



# PADD 3 Crude Oil Supply and Refining



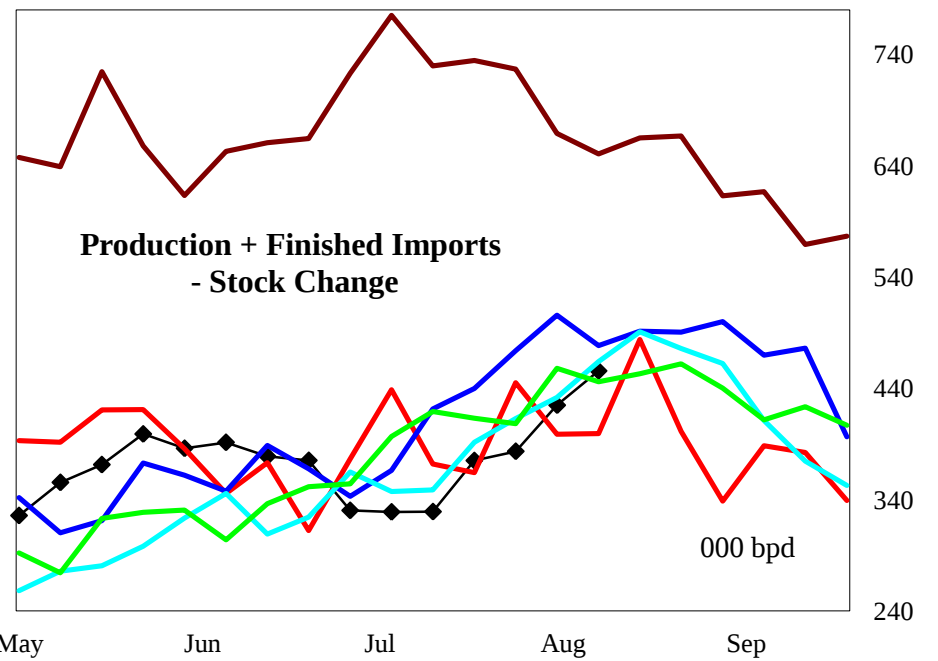
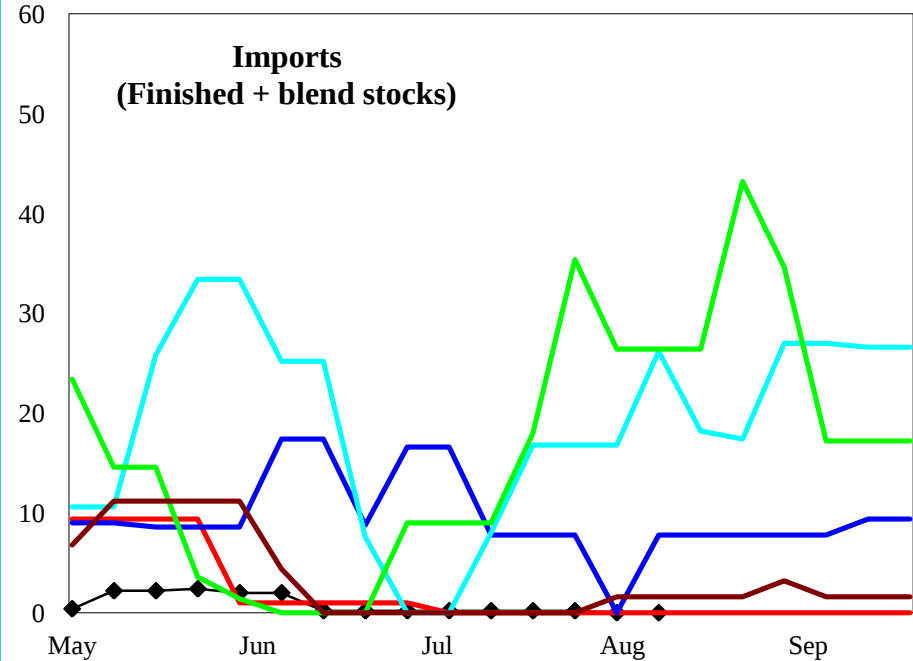
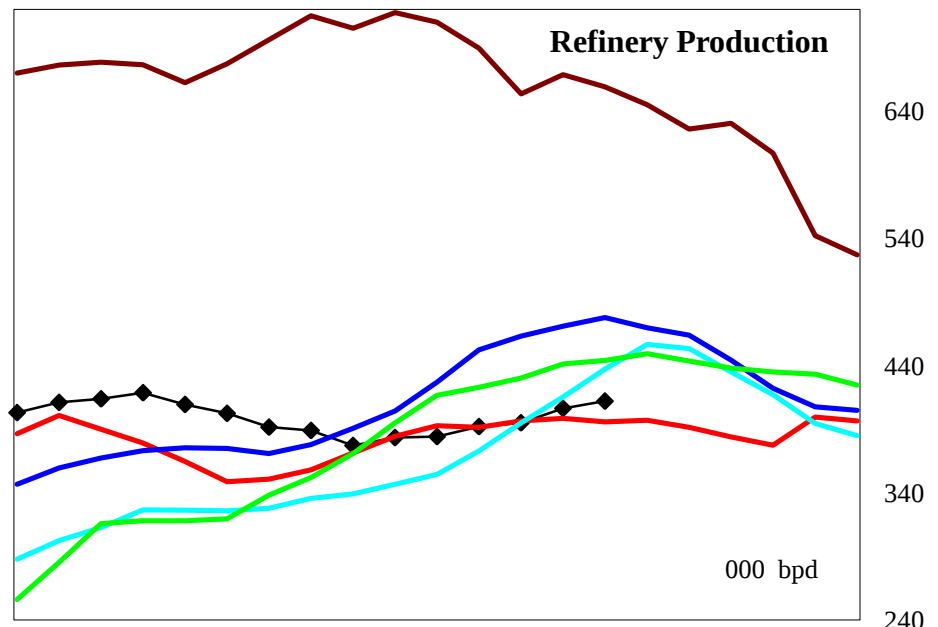
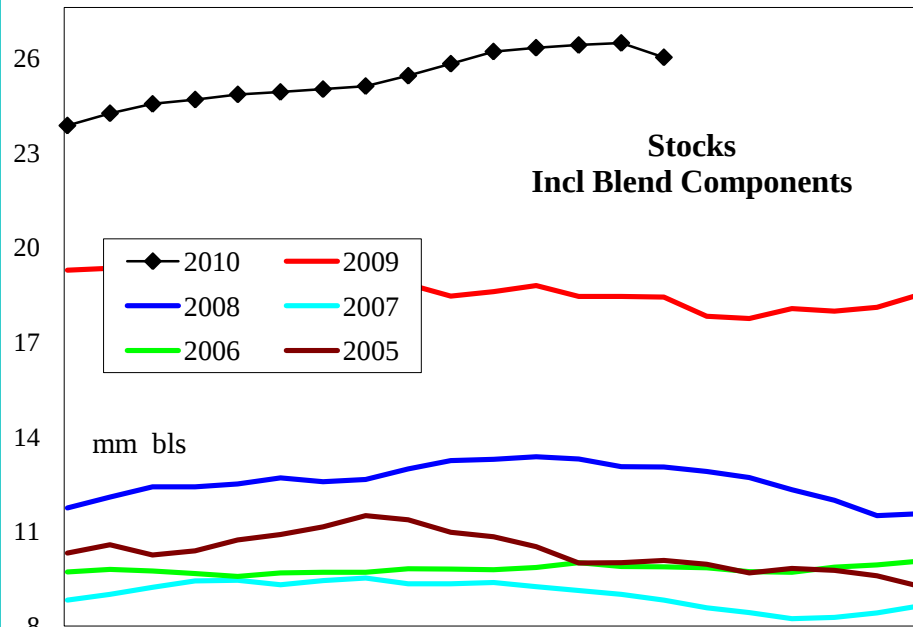
# PADD 3 Gasoline Supply



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

| Stocks | Production | Fin Impt | Blend Impt | Prod + Imp - Stk chg |
|--------|------------|----------|------------|----------------------|
| 6,767  | -274       | 7        | 29         | -335                 |
| 9.8    | -10.2      | 16.2     | 96.7       | -11.9                |

# PADD 3 Reformulated Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

8,215

Production

10

2.5

Imports

0

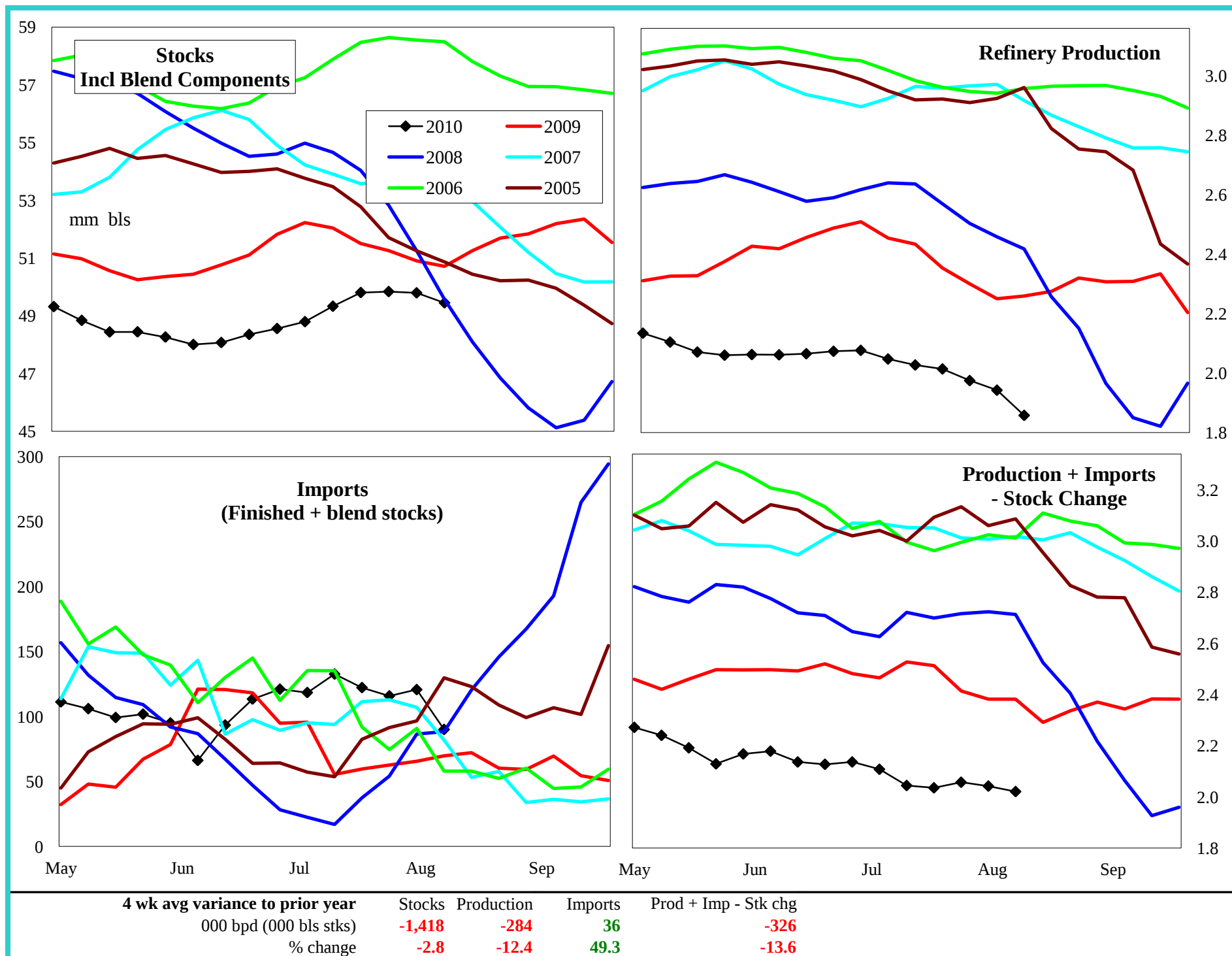
#DIV/0!

Prod + Imp - Stk chg

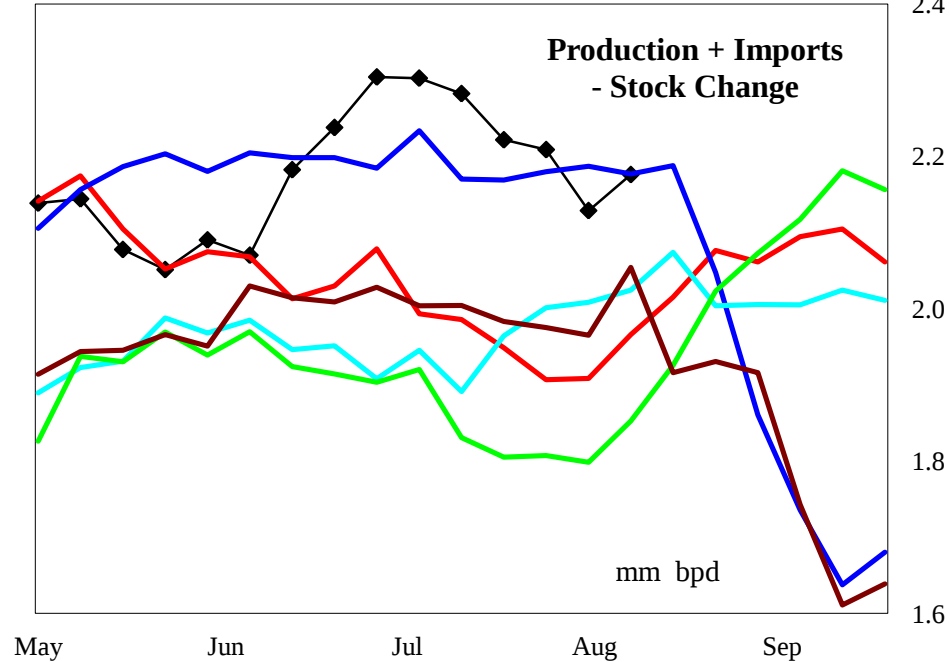
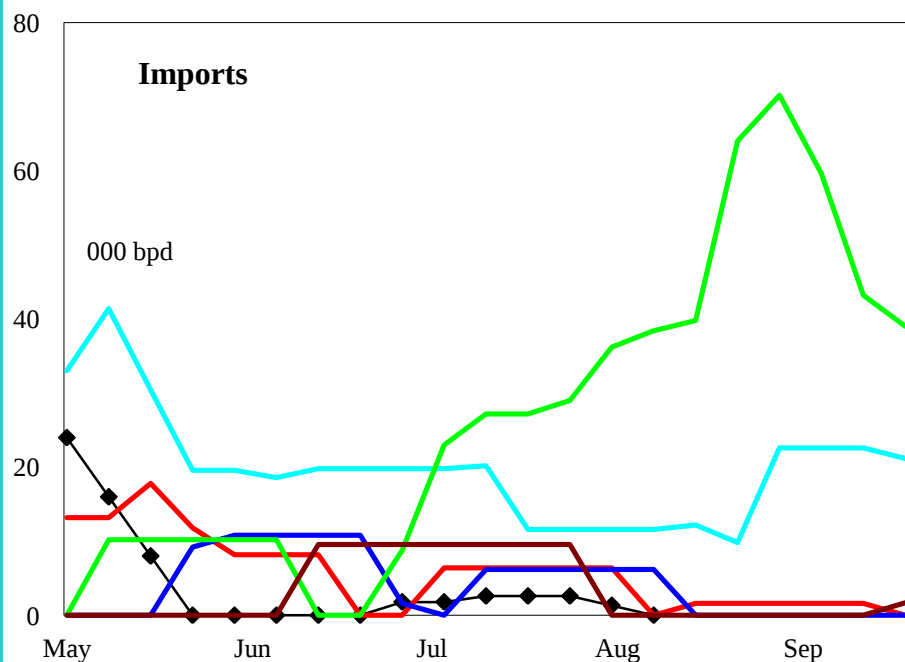
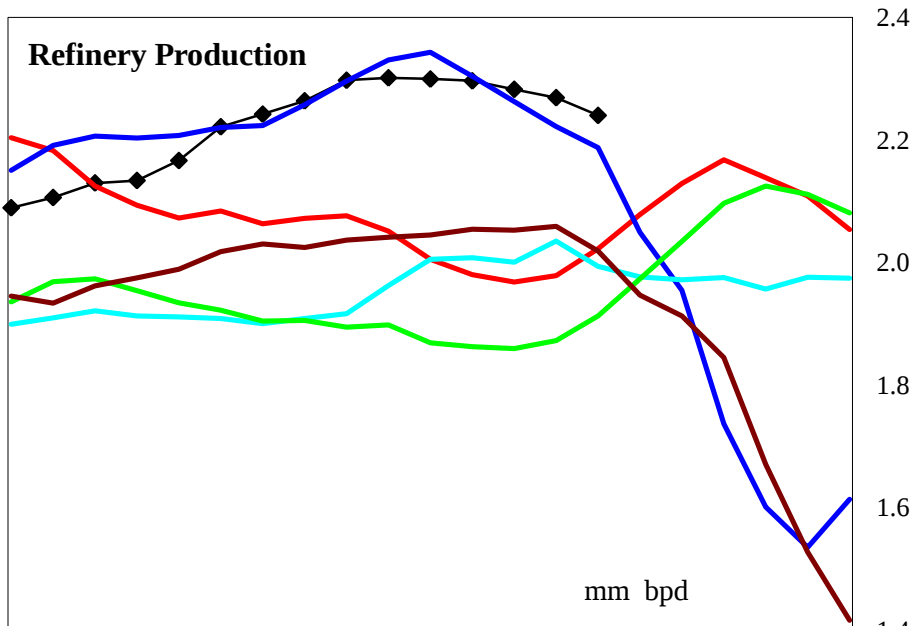
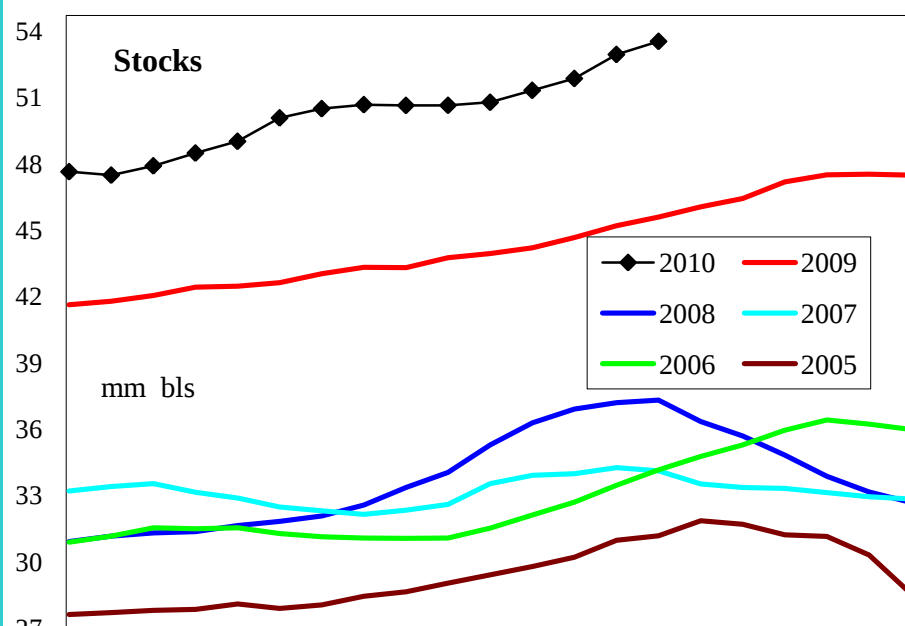
-9

-2.1

# PADD 3 Conventional Gasoline Supply



# PADD 3 Distillate Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

7,952

17.3

Production

316

16.2

Imports

-7

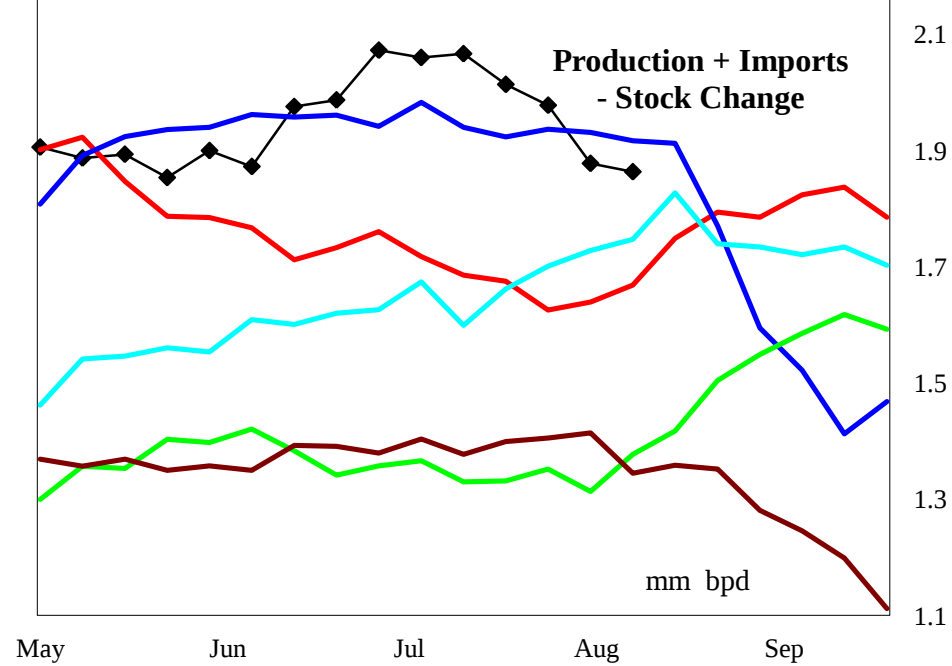
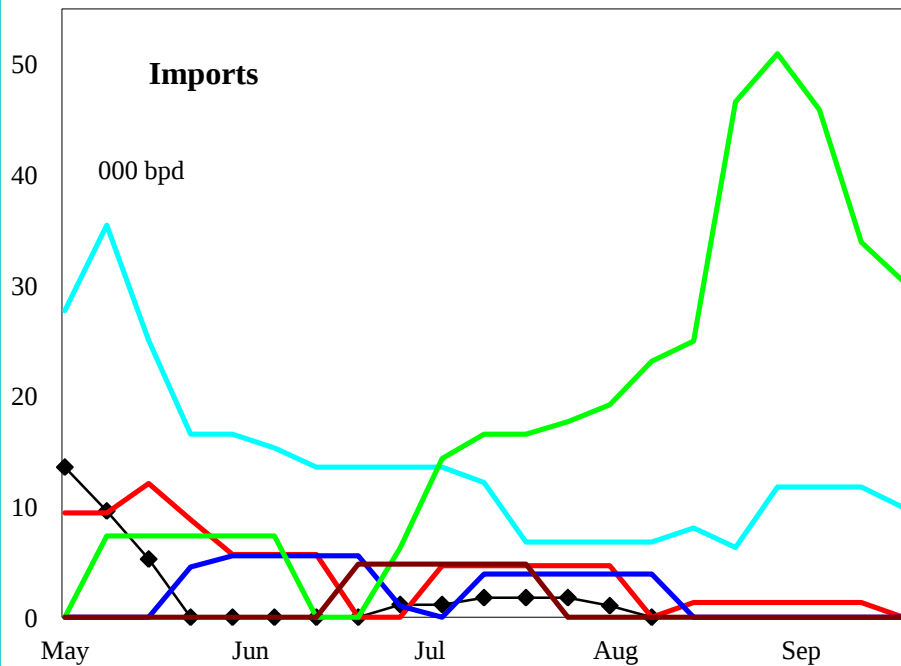
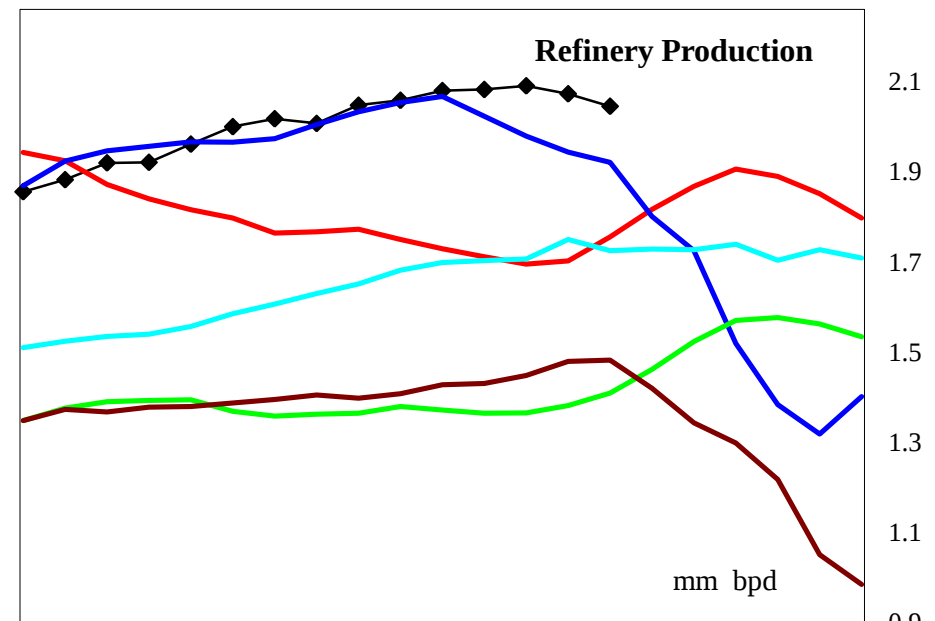
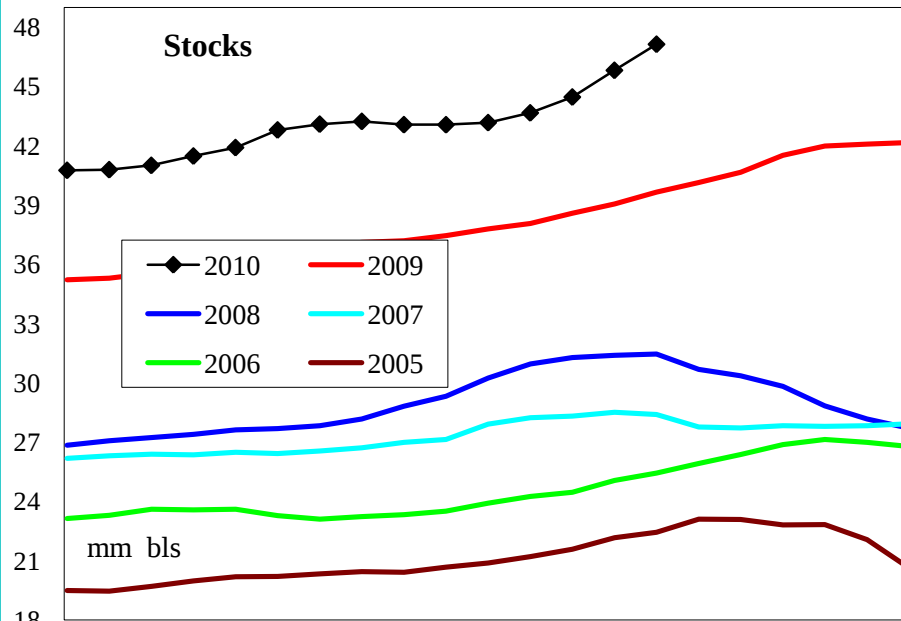
-87.5

Prod + Imp - Stk chg

258

13.7

# PADD 3 Low Sulfur Distillate Supply



4 wk avg variance to prior year

000 bpd (000 bbls stks)

% change

Stocks

7,751

19.7

Production

394

22.9

Imports

-5

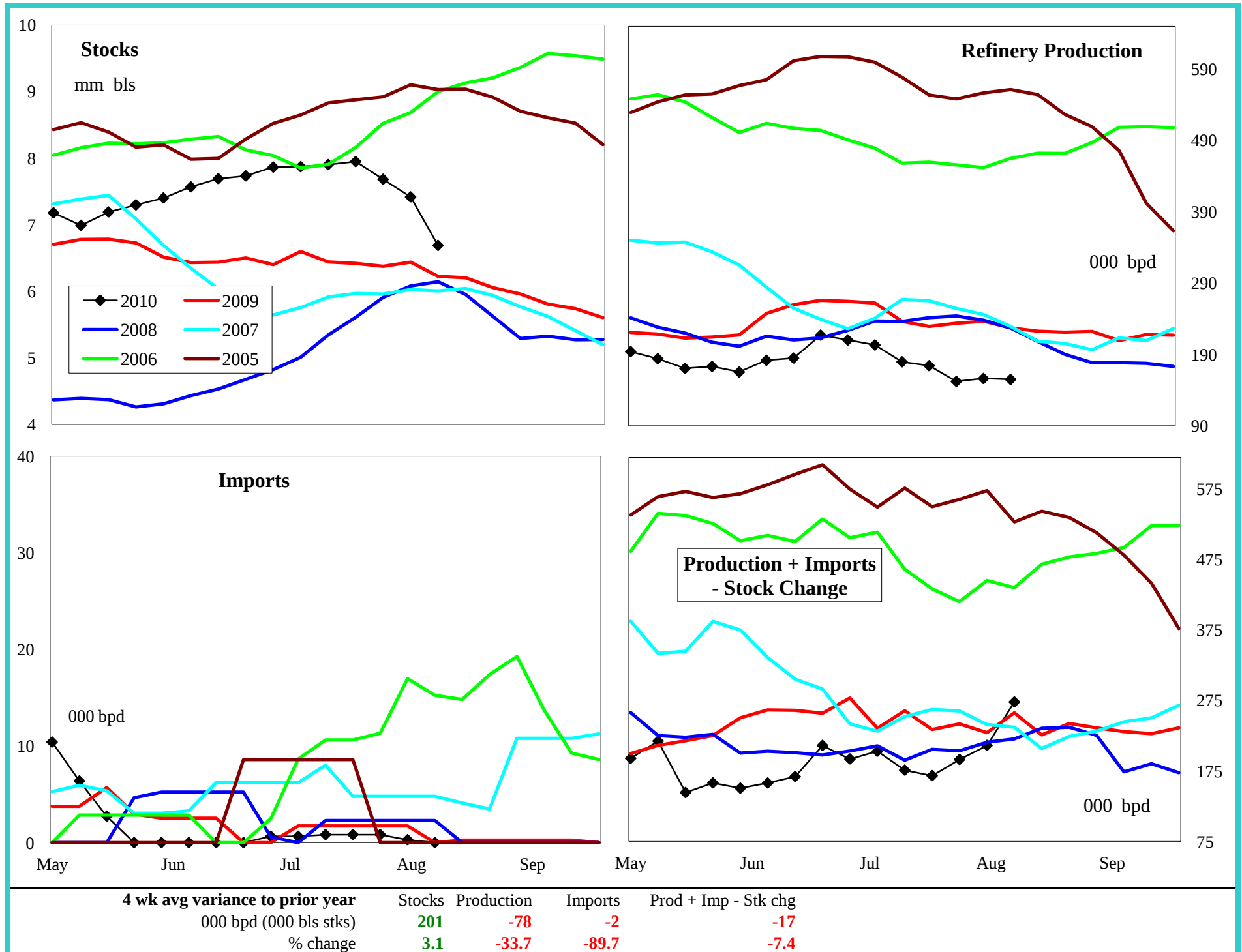
-86.6

Prod + Imp - Stk chg

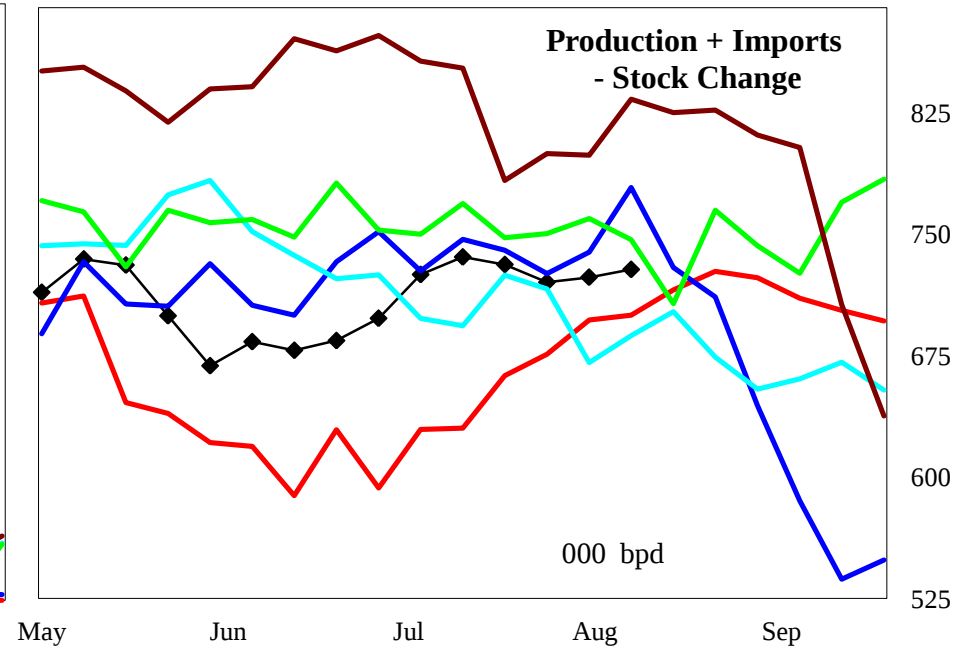
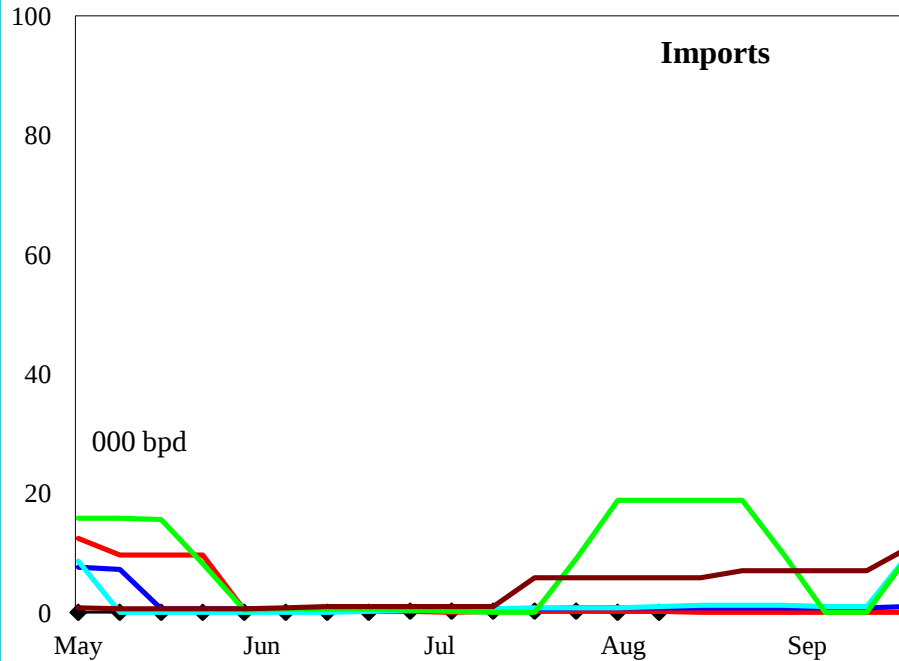
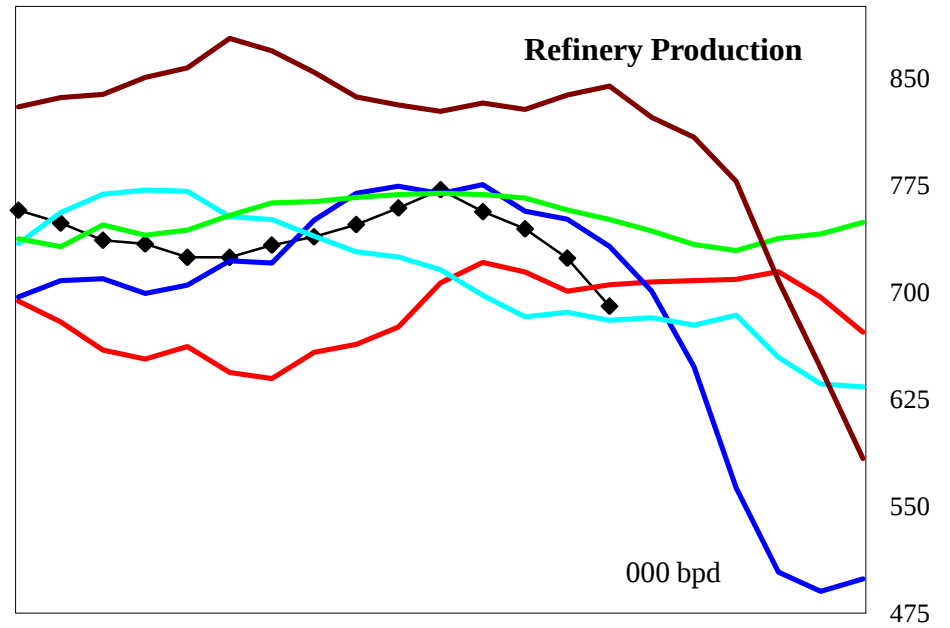
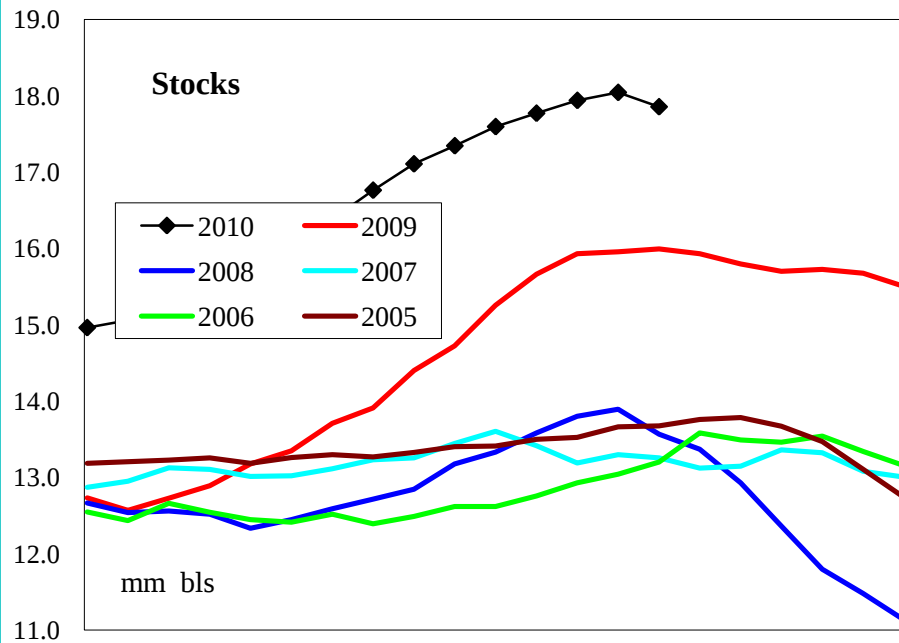
275

16.7

# PADD 3 High Sulfur Distillate Supply



# PADD 3 Jet Fuel Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

1,862

17

0

32

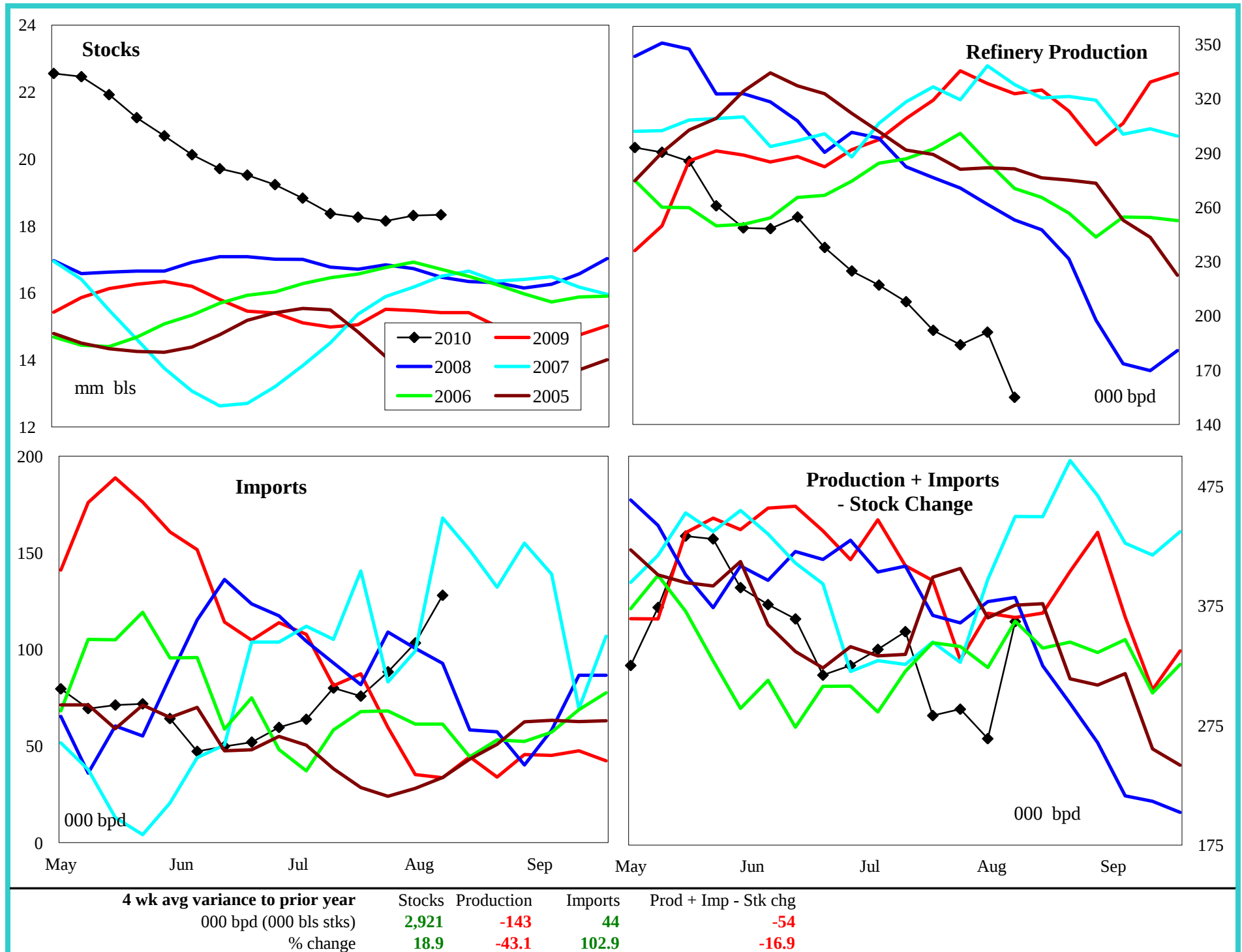
11.6

2.3

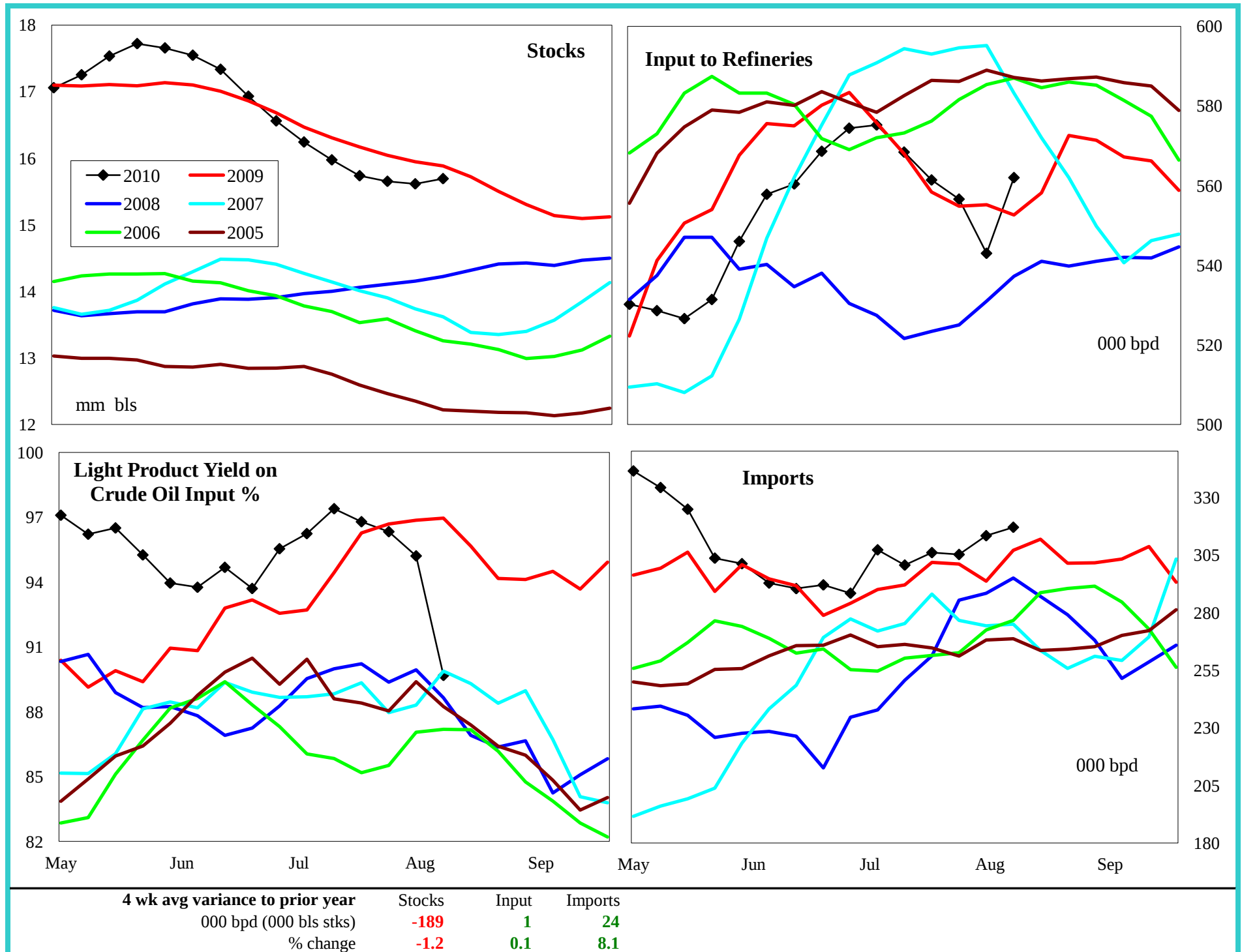
-100.0

4.5

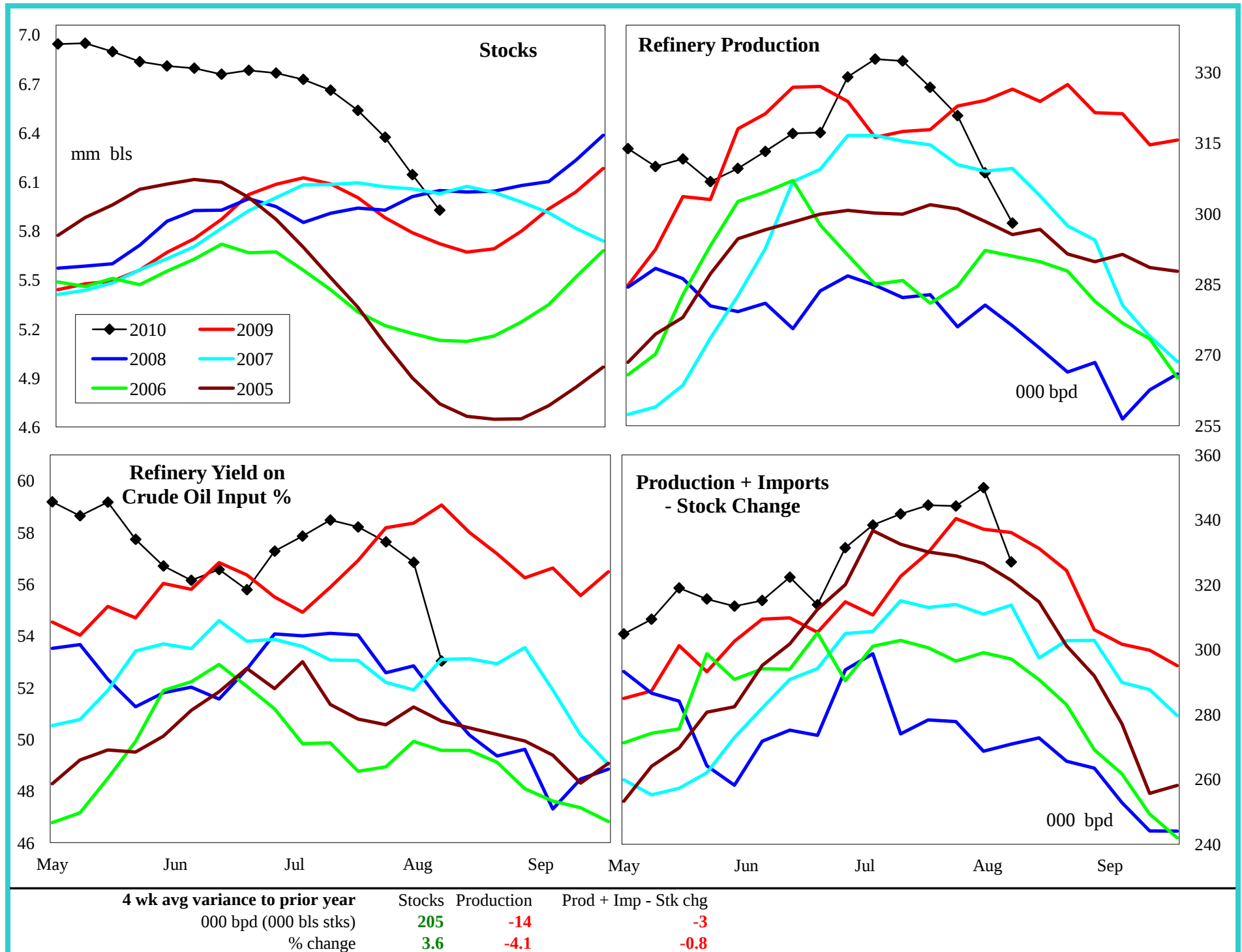
# PADD 3 Residual Fuel Oil Supply



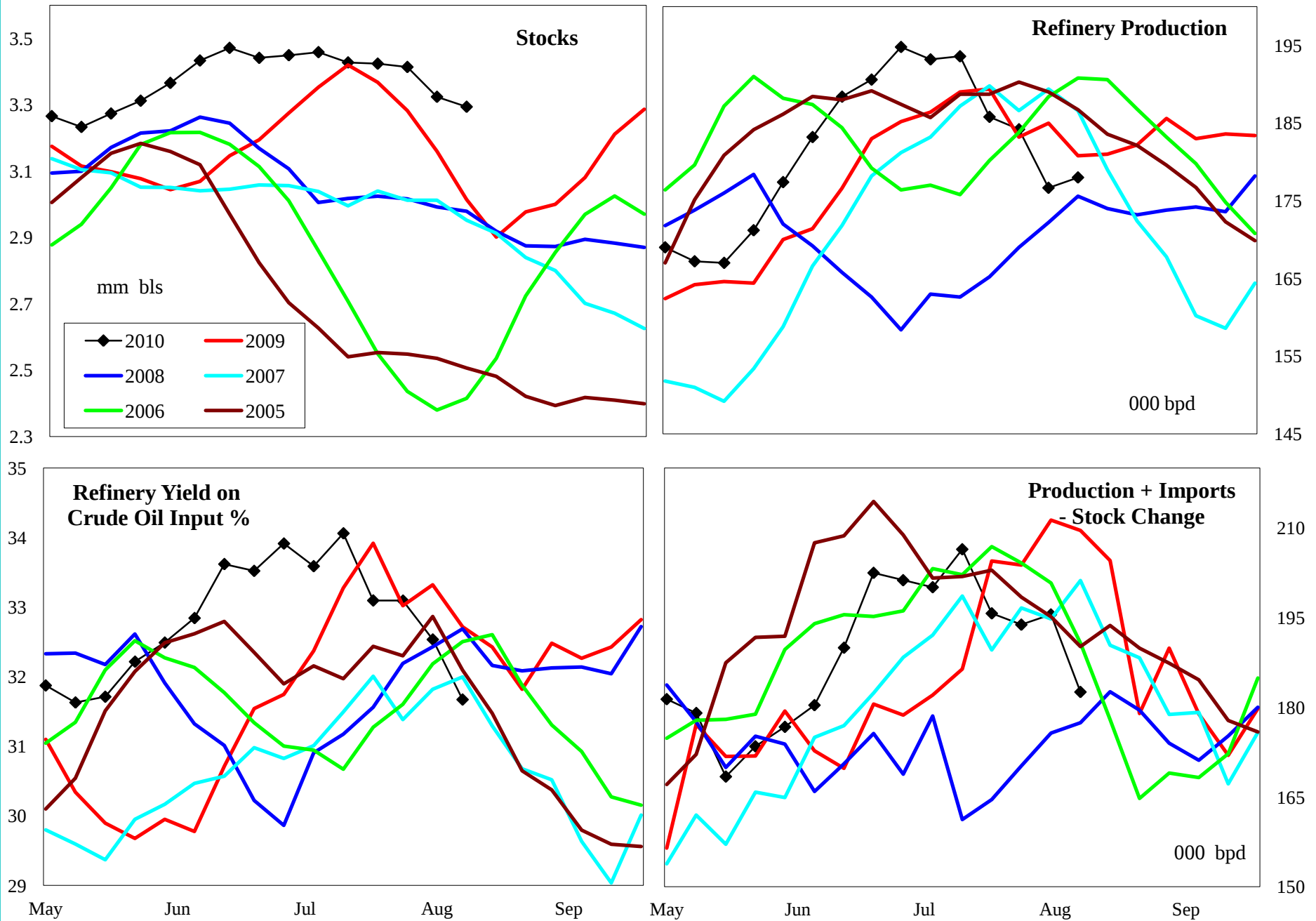
# PADD 4 Crude Oil Supply and Refining



# PADD 4 Gasoline Supply



# PADD 4 Distillate Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

Imports

Prod + Imp - Stk chg

280

-5

-1

-1

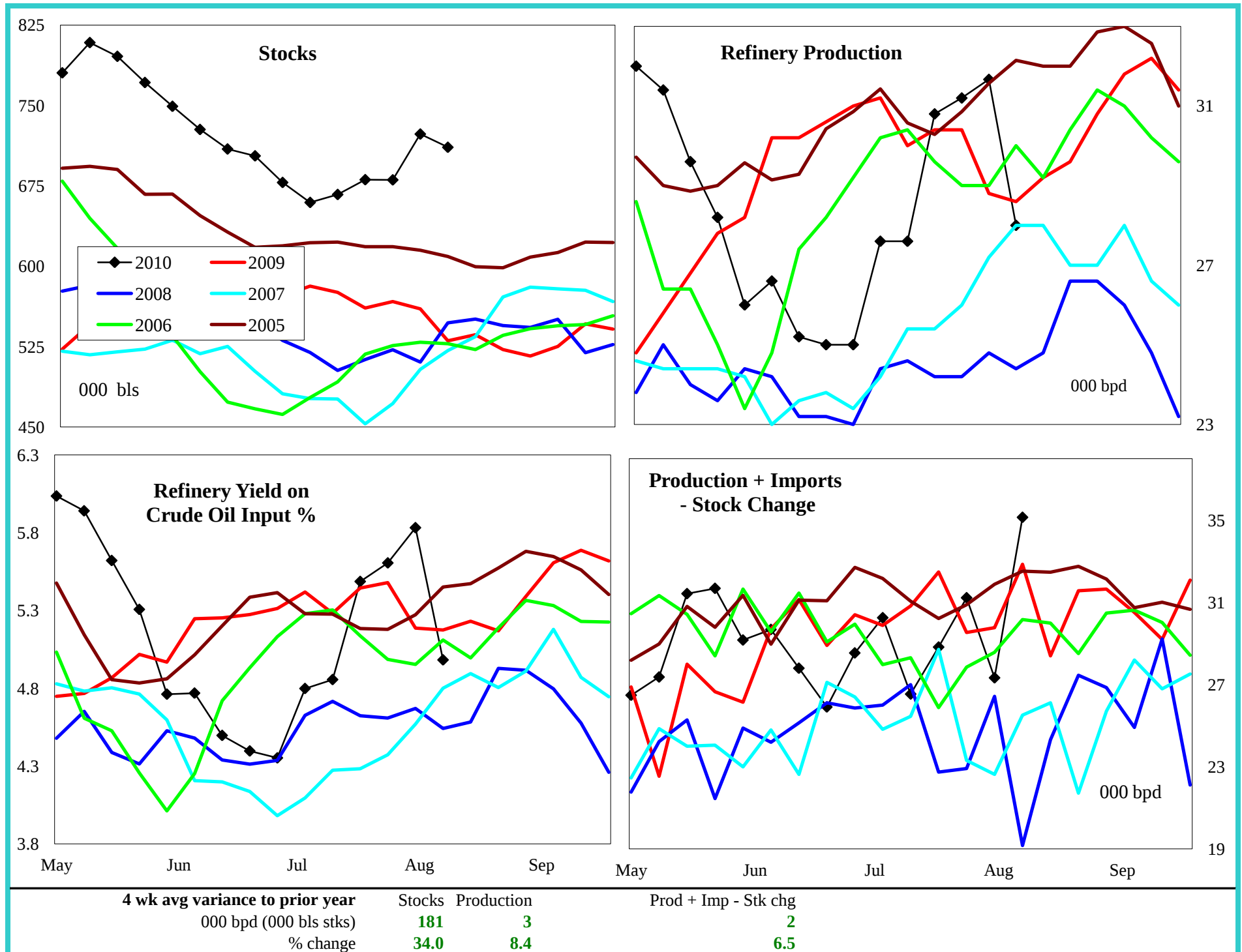
9.3

-2.9

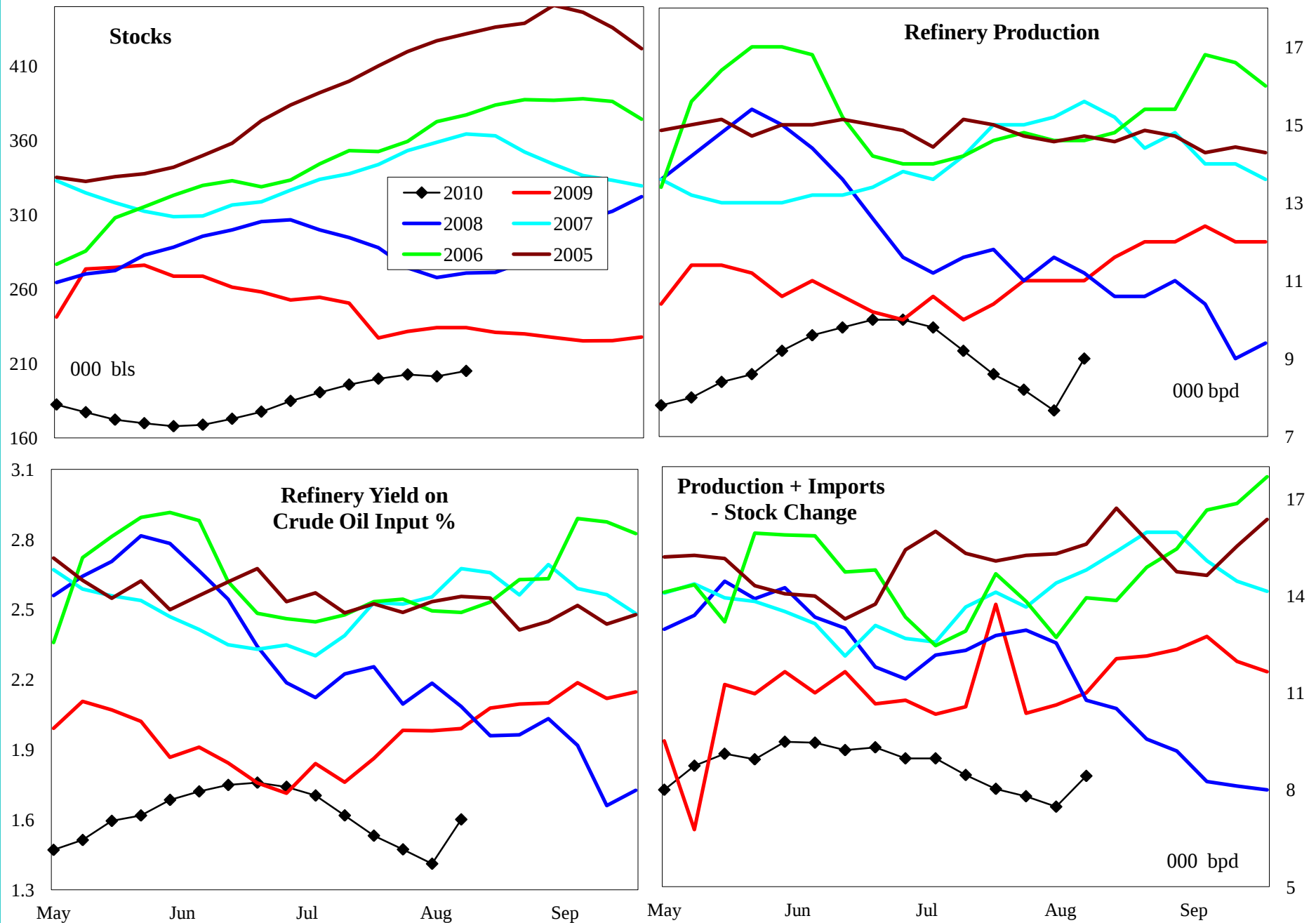
-13.5

-0.3

# PADD 4 Jet Fuel Supply



# PADD 4 Residual Fuel Oil Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

-29

-12.5

Production

-3

-28.9

Imports

0

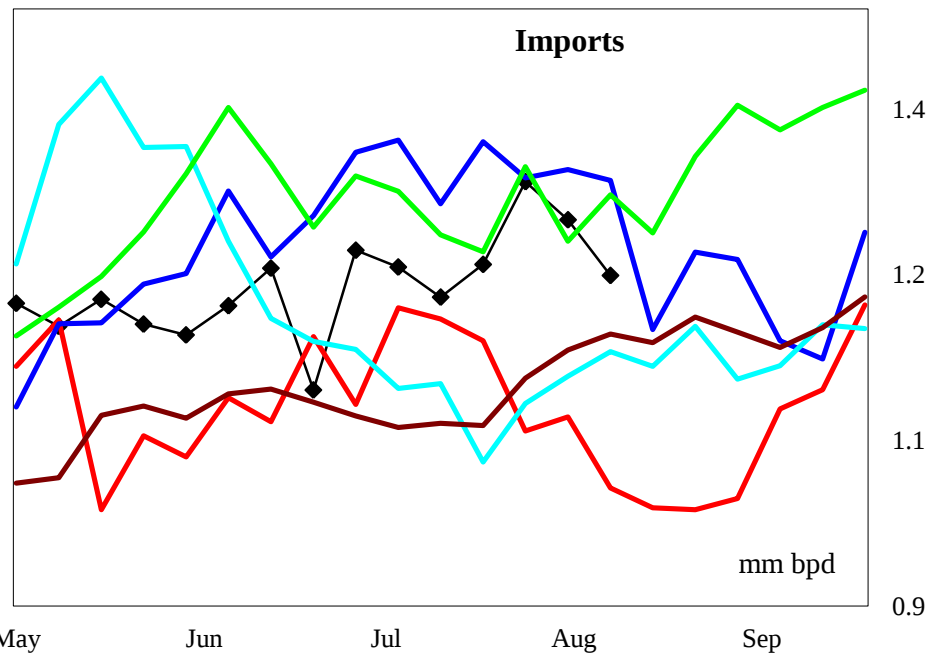
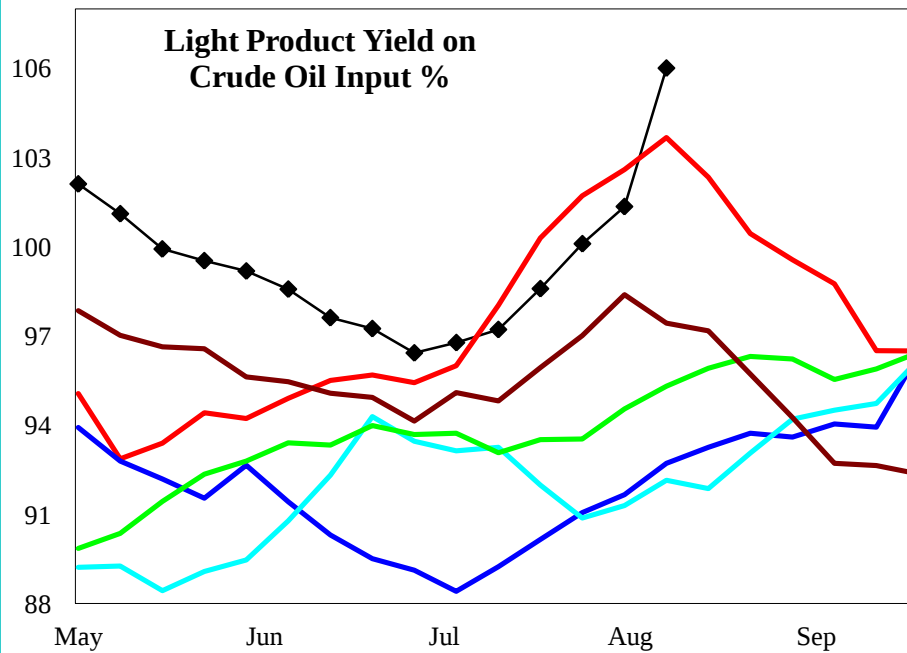
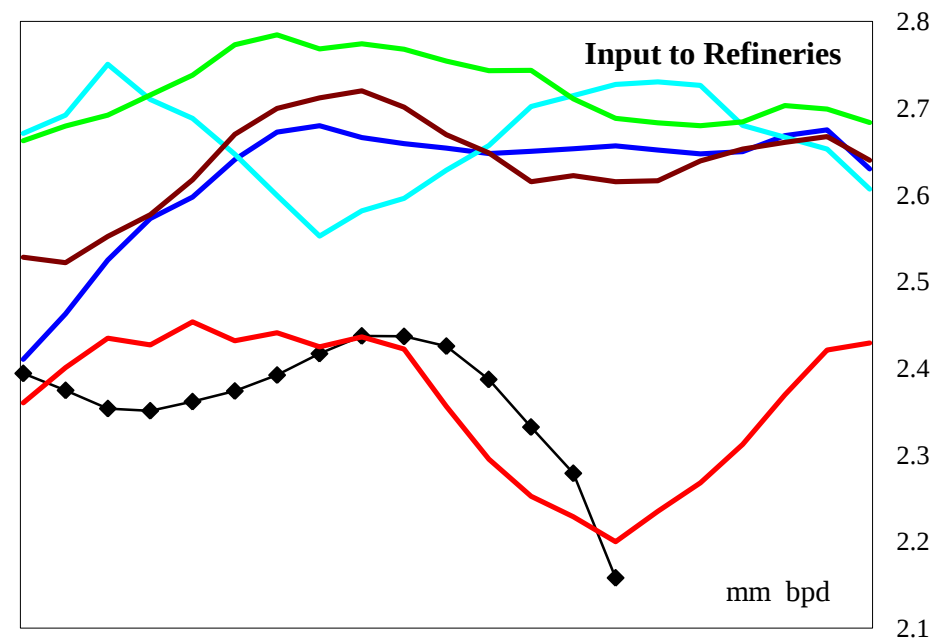
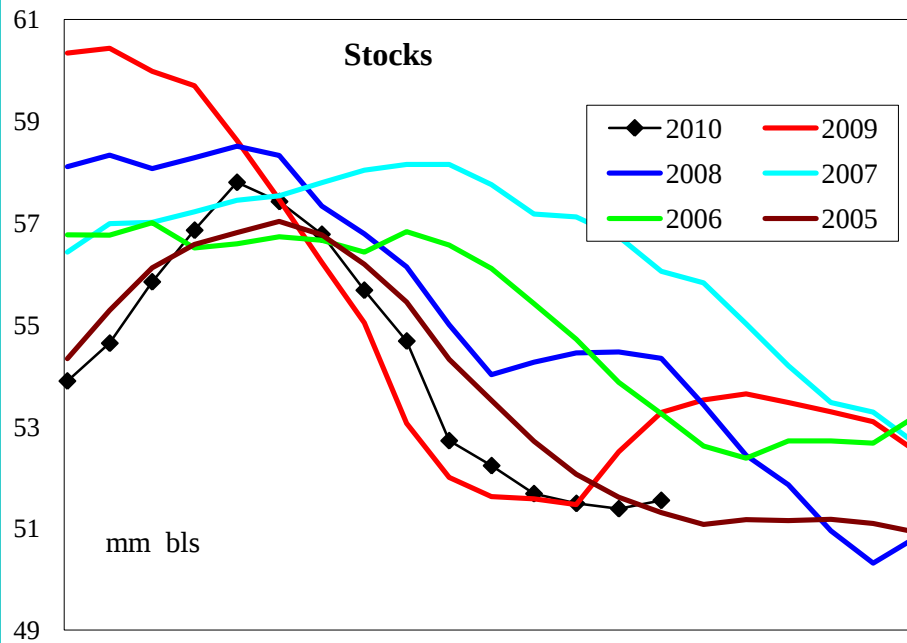
#DIV/0!

Prod + Imp - Stk chg

0

-4.8

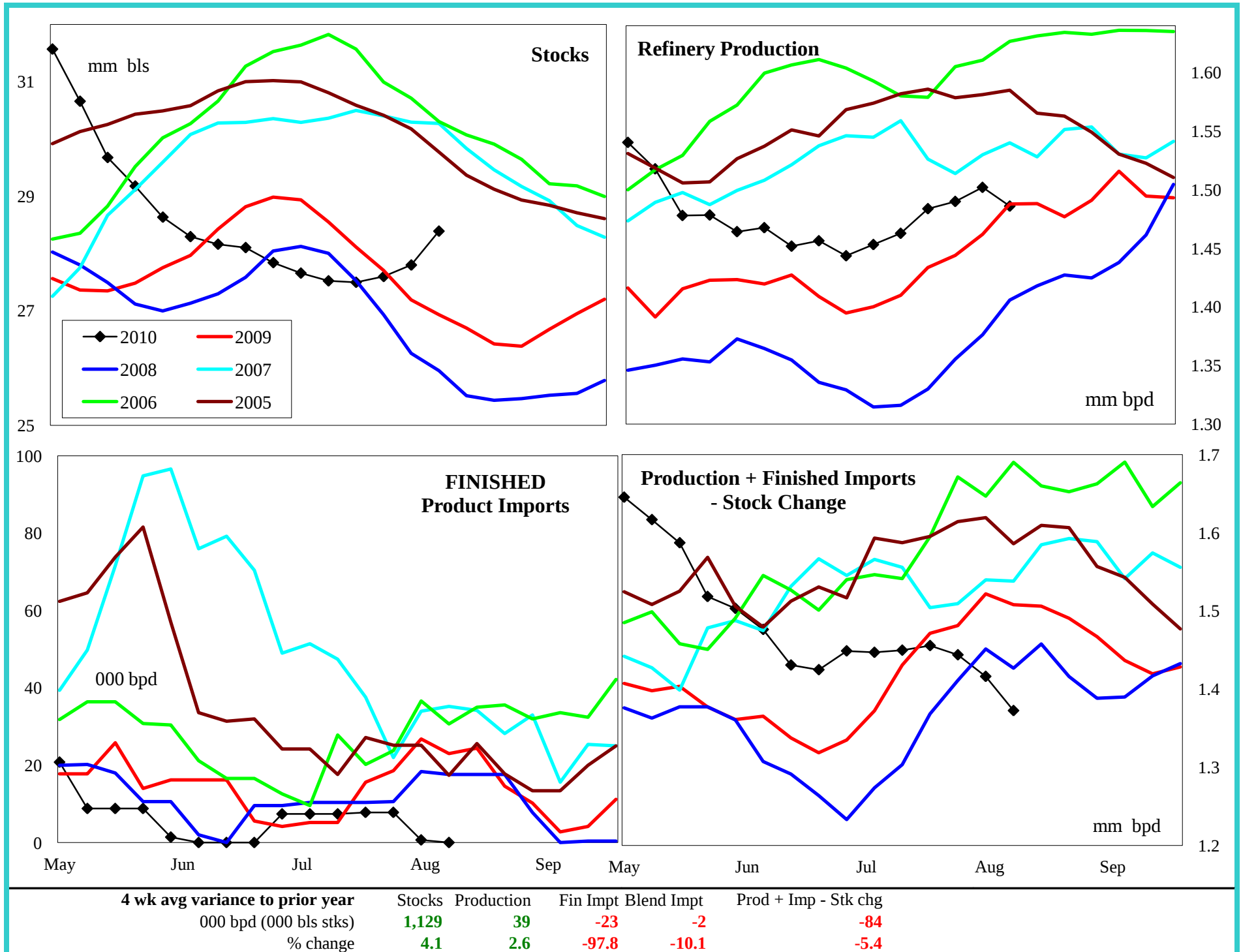
# PADD 5 Crude Oil Supply and Refining



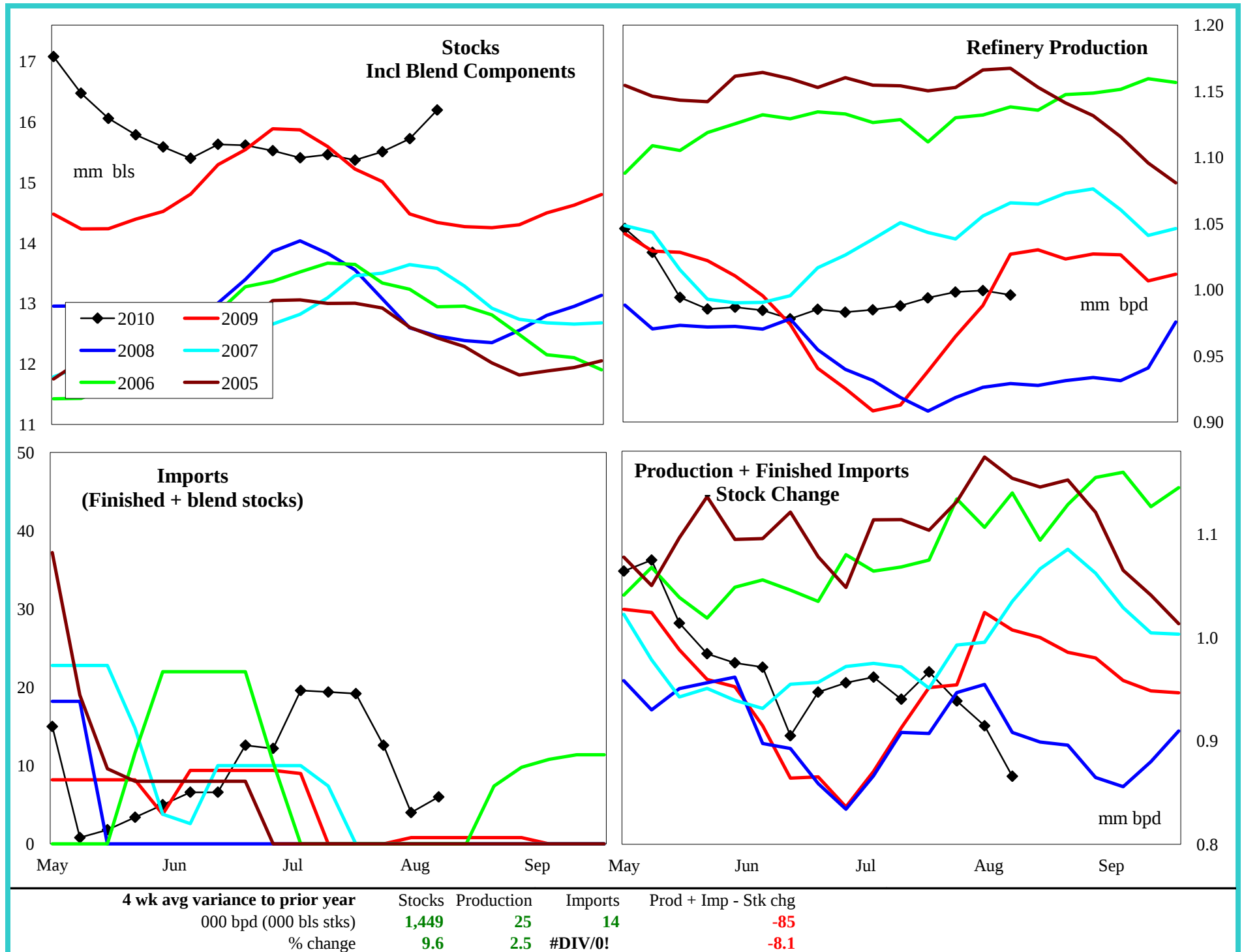
**4 wk avg variance to prior year**  
 000 bpd (000 bls stks)  
 % change

|                        | Stocks | Input | Imports |
|------------------------|--------|-------|---------|
| 000 bpd (000 bls stks) | -1,727 | 76    | 98      |
| % change               | -3.2   | 3.4   | 9.0     |

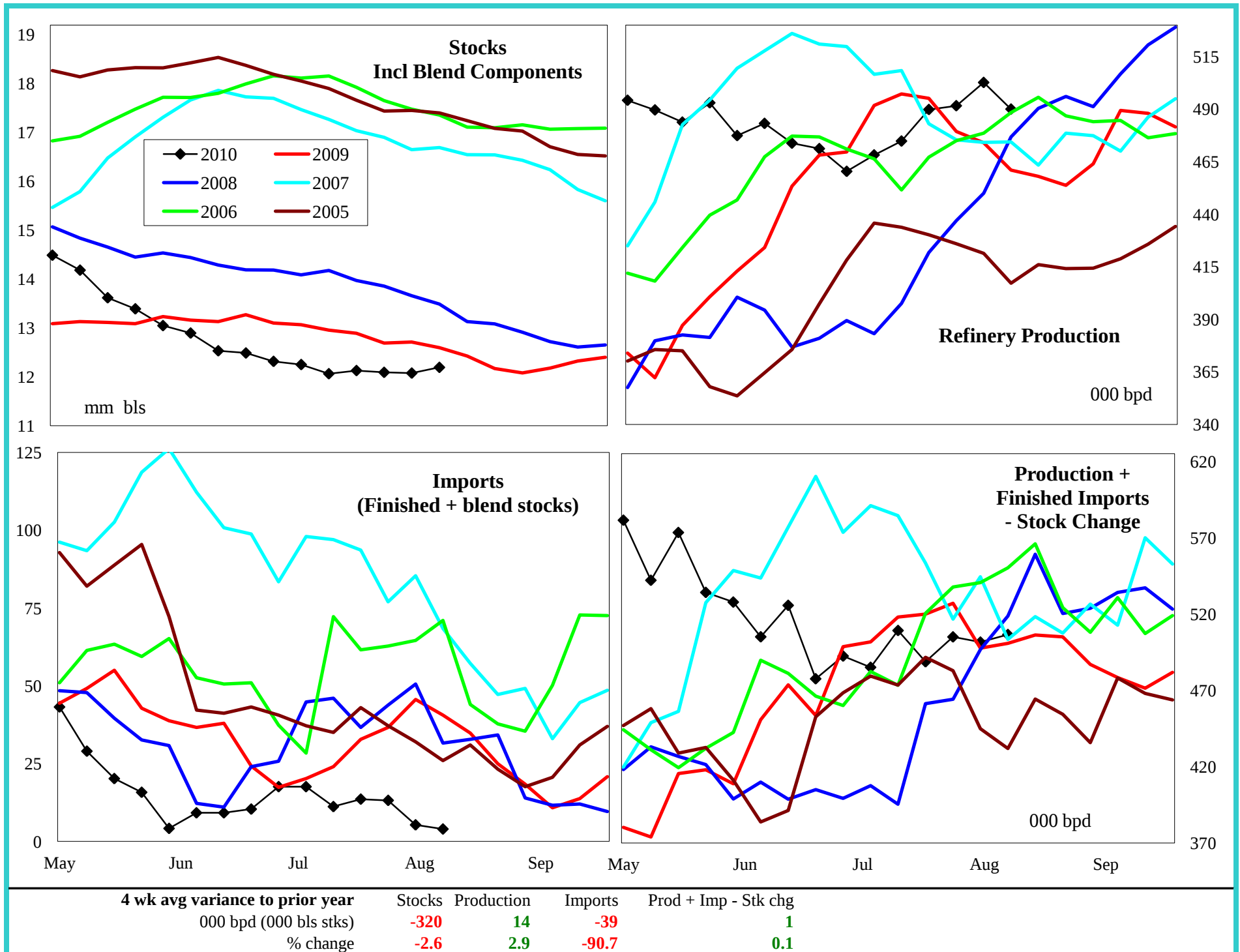
# PADD 5 Gasoline Supply



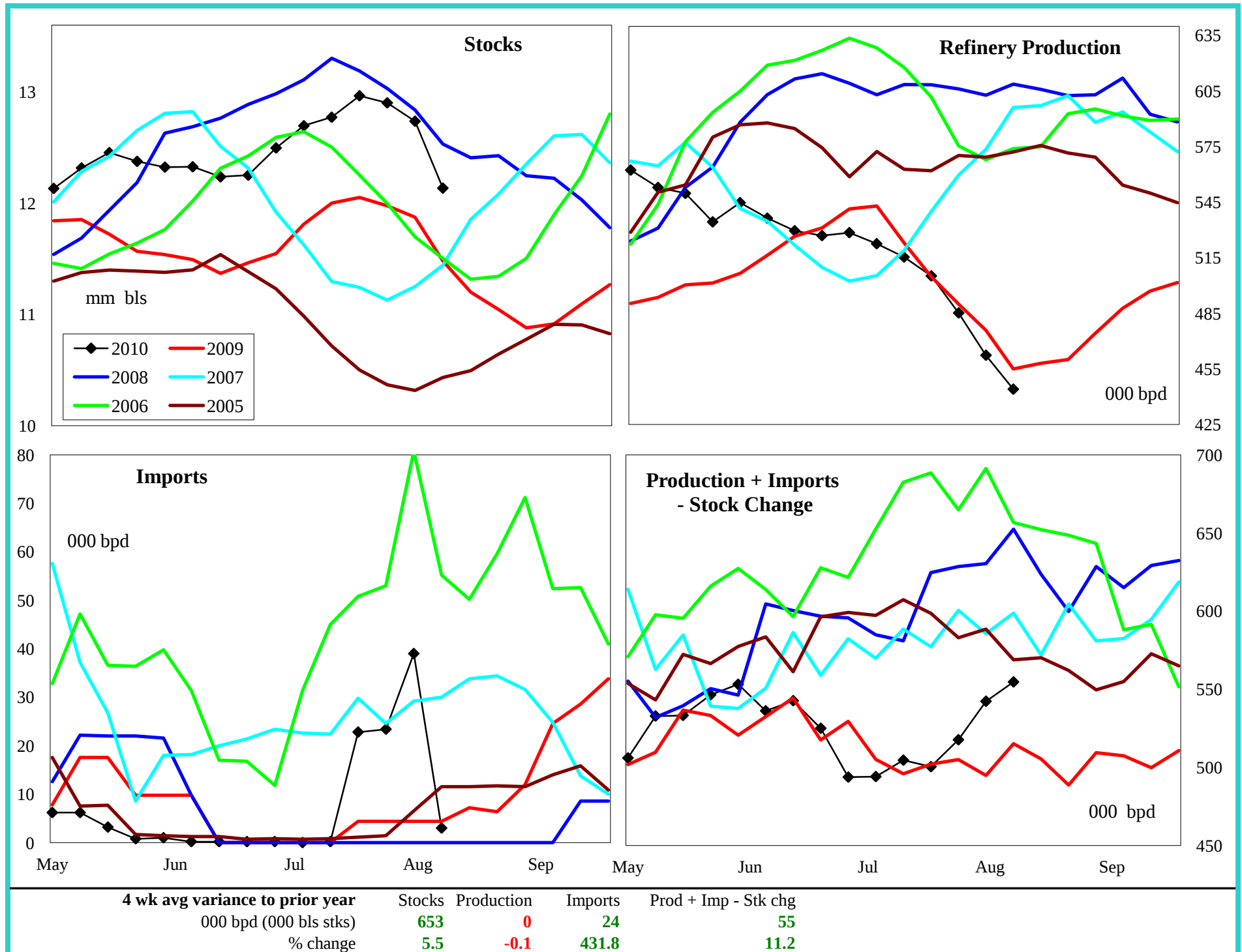
# PADD 5 Reformulated Gasoline Supply



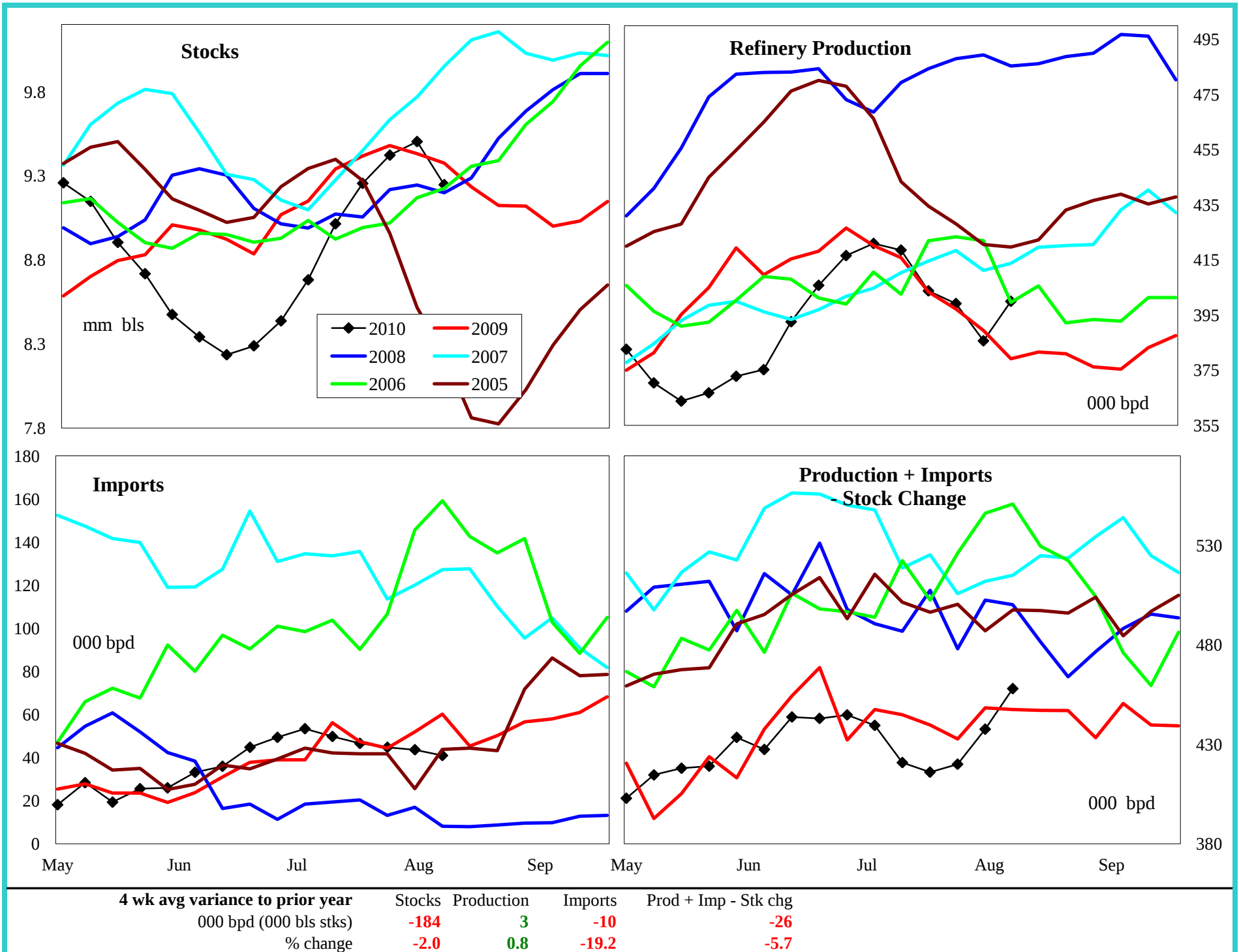
# PADD 5 Conventional Gasoline Supply



# PADD 5 Distillate Supply



# PADD 5 Jet Fuel Supply



# PADD 5 Residual Fuel Oil Supply

