



WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

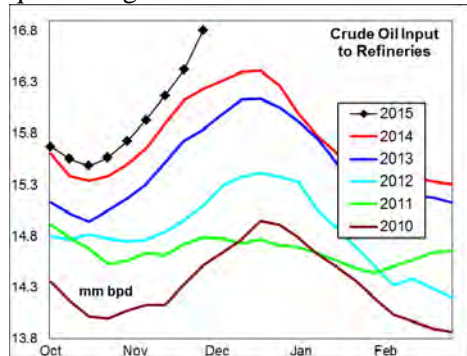
A Fundamental Petroleum Trends Weekly Report

Lehi German Tel: 816.505.0980 www.fundamentalpetroleumtrends.com Wednesday, December 02,

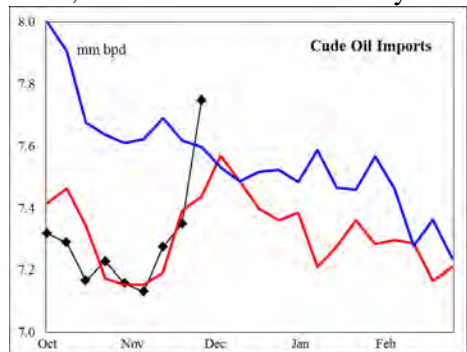


Major Fundamental Trends¹

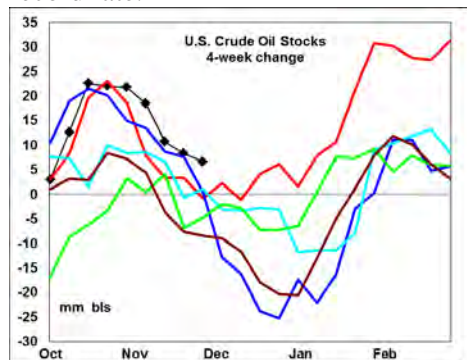
Refinery crude oil thru put increased +0.4 million bpd last week, to a winter quarter high.



Crude oil imports increased +0.4 million bpd for the 2nd consecutive week, to a level above the last 2-yr.

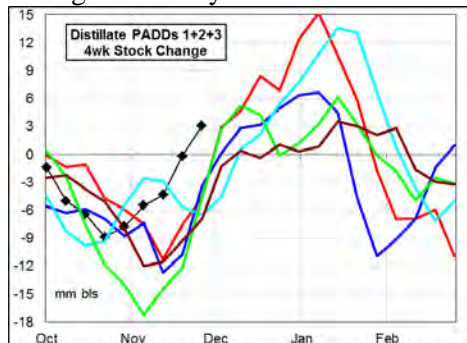


The surge in imports offset peak crude oil refinery thru put, leading to a +1.2 million barrel build in stocks last week. Crude oil stocks continued to build at a record rate.



Distillate stocks climbed +3.1 million barrels last week. Stocks East of the Rockies increased +3.1 million barrels during the last 4-wks, compared to an

average -6 million barrel stock draw during the last 3-yr.



Wholesale Demand for gasoline increased last week, while distillate remains extremely low.

Wholesale demand, measured over the last four weeks compared to a year ago: gasoline decreased -0.6%, distillate decreased -0.9%, jet fuel increased +4%, while residual fuel increased +4%.

Stocks forward coverage: Gasoline demand coverage was unchanged on a +0.1 million barrel stock build, and higher wholesale demand. Coverage ended the week at a level that matched historic lows.

Distillate demand coverage increased on a +3.1 million barrel stock build, and weak wholesale demand. Coverage ended the week at a level above four of the last 5-yr.

Jet fuel coverage increased on a +0.8 million barrel stock build, and unchanged wholesale demand. Coverage levels matched the latest 2-yr average.

Refinery utilization rates increased on a +423,000 bpd rise in crude oil runs last week. During the latest 4-wk period crude oil input was +305,000 bpd above last year.

Gasoline yield % on crude oil runs was little changed last week on a +0.2 million bpd rise in output compared to the +0.4 million bpd increase in crude oil thru put. Gasoline yield % on crude oil runs ended the week at a level that matched historic lows for this time of year.

Distillate yield % on crude oil runs was nearly unchanged on a +145,000 bpd increase in output compared to the

rise in crude oil thru put. The yield % on crude oil runs was below the last 3-yr.

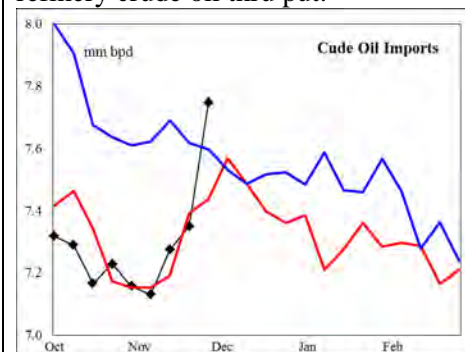
Jet fuel yield % on crude oil runs increased on a +113,000 bpd rise in output compared to the rise in crude oil runs, with yields sharply above the 5-yr range.

Petroleum Imports/Exports: Crude oil imports increased +0.4 million bpd last week. Imports of gasoline increased +0.4 million bpd on the week, while middle distillates were lower.

During the latest 4-wk period crude oil imports were nearly unchanged from a year ago; distillate imports were +65,000 bpd higher; finished gasoline imports +12,000 bpd higher; gasoline blend stock imports -127,000 bpd lower, jet fuel imports increased +19,000 bpd, while residual fuel imports were -33,000 bpd lower.

Exports of distillate for the week ending 20Nov15 were +95,000 bpd above a year ago, gasoline +245,000 bpd higher, jet fuel -11,000 bpd lower and residual fuel oil was -75,000 bpd lower.

Crude Oil stocks increased +1.2 million barrels on the week, with a +0.4 million barrel build in Cushing. The stock build was due to sharply higher imports that offset season high refinery crude oil thru put.



Stock levels remain very high in all regions except the West Coast.

¹ Source is latest EIA Weekly Statistics



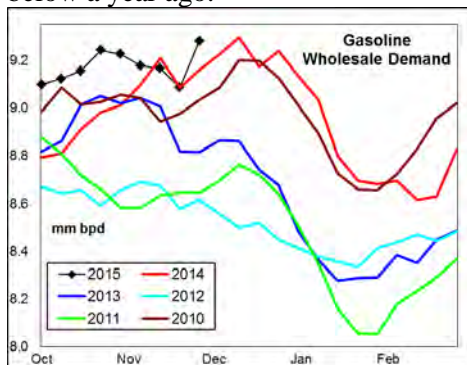
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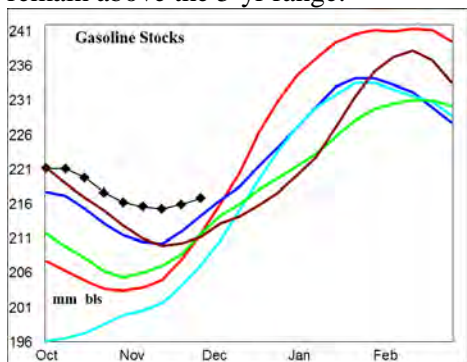
Product Supply-Demand Trends

Gasoline wholesale demand increased +0.4 million bpd on the week, to a level above the 5-yr range. The latest 4-wk average demand was -59,000 bpd below a year ago.

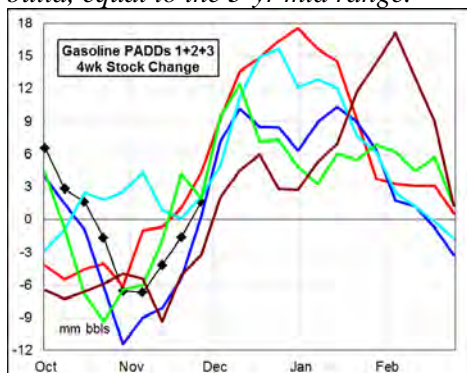


Supply increased +0.2 million bpd last week; with the 4-wk average +0.1 million bpd above a year ago.

Stocks were nearly unchanged on the week, including a -1 million barrel draw on the East Coast. Stock levels remain above the 5-yr range.

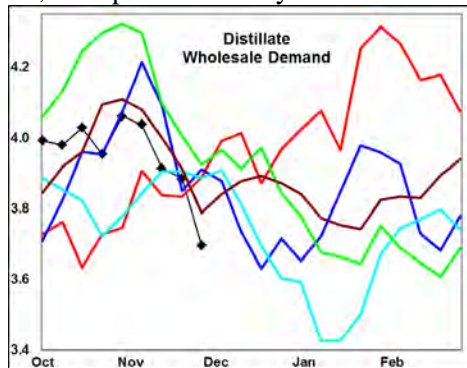


The latest 4-wk stock change East of the Rockies was a +1.9 million barrel build, equal to the 3-yr mid range.

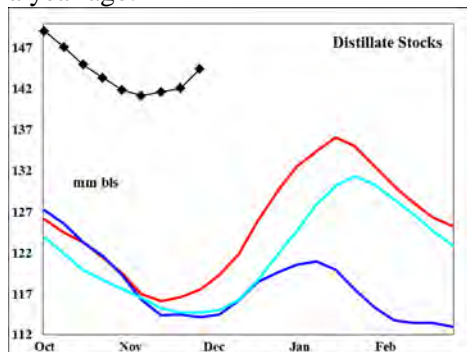


Stock levels in the Rockies and West Coast ended the week at levels that matched 5-yr lows. Each regions East of the Rockies reported very ample stock levels.

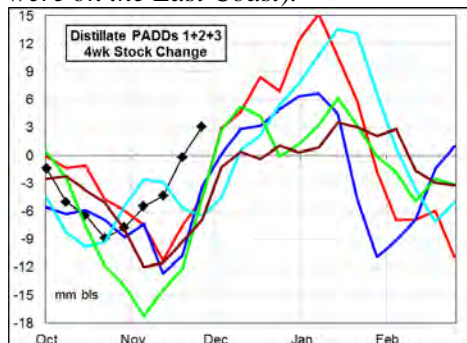
Distillate wholesale demand remains exceptionally low, due in part to below average heating fuel use. The latest 4-wk average wholesale demand was -35,000 bpd below last year.



Supply increased +233,000 bpd, with the 4-wk average +203,000 bpd above a year ago.



Stocks increased +3.1 million barrels on the week, including a +2.1 million barrel build on the East Coast. Stocks ended the week +28 million barrels above the last 3-yrs (27 million barrels were on the East Coast).

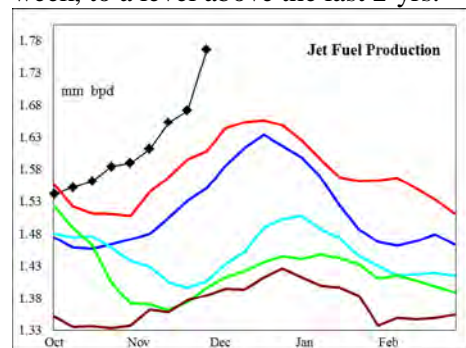


The latest 4-wk stock build East of the Rockies was +3.1 million barrels compared to a 3-yr average draw of -6 million barrels.

Jet Fuel wholesale demand decreased -15,000 bpd on the week, at a level just above the 5-yr range. The latest 4-wk

average demand was +62,000 bpd above last year.

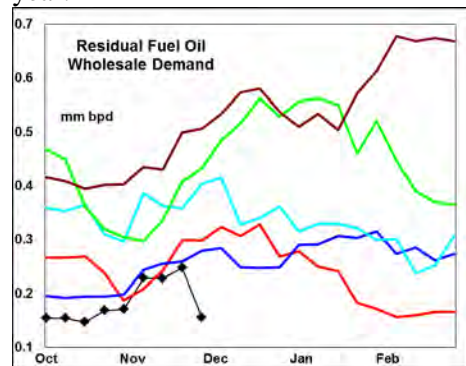
Supply increased +10,000 bpd on the week, driven by higher production and largely offset by a sharp drop in imports. Production was +158,000 bpd above a year ago last week. Stocks increased +0.8 million barrels on the week, to a level above the last 2-yrs.



Look for record production and increased imports to meet high seasonal demand during the next month. Stock levels should remain at levels comparable to a year ago.

The midwest continues to report extremely low stocks.

Residual fuel oil demand fell -271,000 bpd on the week to a level below the historic range. Demand for the latest 4-wk period was +8,000 bpd above last year.



Supply (production + imports) increased +177,000 bpd on the week, due to higher imports and production. Stocks increased +1.4 million barrels, to a level well above the historic range. Production fell to a record low for the season.



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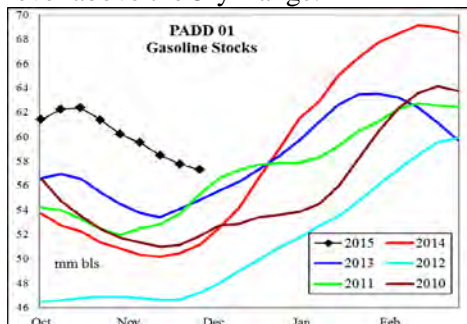
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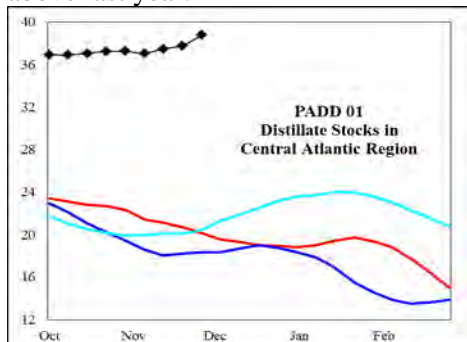
PADD Supply Trends

PADD 1 refinery crude oil runs increased +29,000 bpd on the week to a fresh record high. The latest 4-wk average thru put was +60,000 bpd above a year ago.

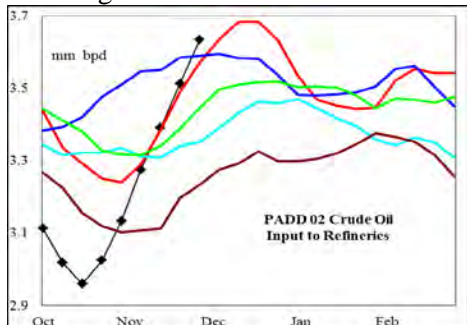
Gasoline supplies decreased -68,000 bpd for the week. The 4-wk average gasoline supply was +88,000 bpd above last year. Stocks decreased -1 million barrels for the week, to a level above the 5-yr range.



Distillate supply increased +107,000 bpd on the week, with the 4-wk average +99,000 bpd above last year. Production was +14% above last year for the latest 4-wk period. Stocks increased +2.1 barrels to a level +75% above last year.



Jet fuel stocks fell -0.8 million barrels on the week to a level above the 3-yr mid range.



PADD 2 crude oil refinery runs increased +105,000 bpd on the week,

to a level near historic highs. The latest 4-wk average thru put was +53,000 bpd above last year.

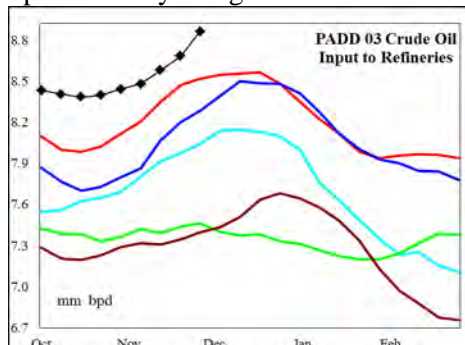
Crude oil stocks increased +2.3 million barrels last week. Cushing saw a +0.4 million barrel stock build for the week.

Gasoline supply decreased -62,000 bpd on the week. Production for the most recent 4-wk period was +40,000 bpd above a year ago. Stocks increased +0.9 million barrels on the week, to a level near 3-yr highs for the period.

Distillate supply increased +69,000 bpd on the week, to a level below the last 2-yrs. The latest 4-wk average production was -58,000 bpd below last year. Stocks increased +0.6 million barrels on the week, to a level above the last 3-yrs.

Jet fuel production remains exceptionally high, up +19% from last year for the latest 4-wk period. Stock levels remain below the last 5-yrs.

PADD 3 refinery runs increased +240,000 bpd last week. During the latest 4-wk period, runs were +207,000 bpd above a year ago.



Crude oil imports climbed +0.4 million bpd on the week, with the 4-wk average +34,000 bpd above last year.

Crude oil stocks increased +1.4 million barrels, to a level +56 million barrels (+29%) above the prior high for the period.

Gasoline supply increased +26,000 bpd on the week, with the latest 4-wk average +196,000 bpd above a year ago. Stocks increased +0.1 million barrels on the week, to a level which matched the 3-yr mid range.

Distillate supply decreased -24,000

bpd on the week, with the latest 4-wk average supply +226,000 bpd above a year ago. Stocks decreased -0.2 million barrels to a level above the 3-yr mid range.

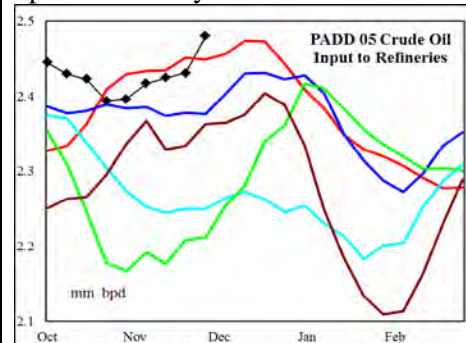
Jet fuel production increased +68,000 bpd on the week, to a record high. Stocks increased +1.7 million barrels on the week, to a level above the last 3-yrs.

PADD 4 refinery crude runs were nearly unchanged last week, at a level above the 5-yr range. The latest 4-wk average was comparable to last year.

Gasoline supply was near the 2-yr average. Stocks ended the week at a level that matched 5-yr lows for the period.

Distillate supply decreased -12,000 bpd on the week, to a level near the 3-yr mid range. Stock levels matched the 3-yr average.

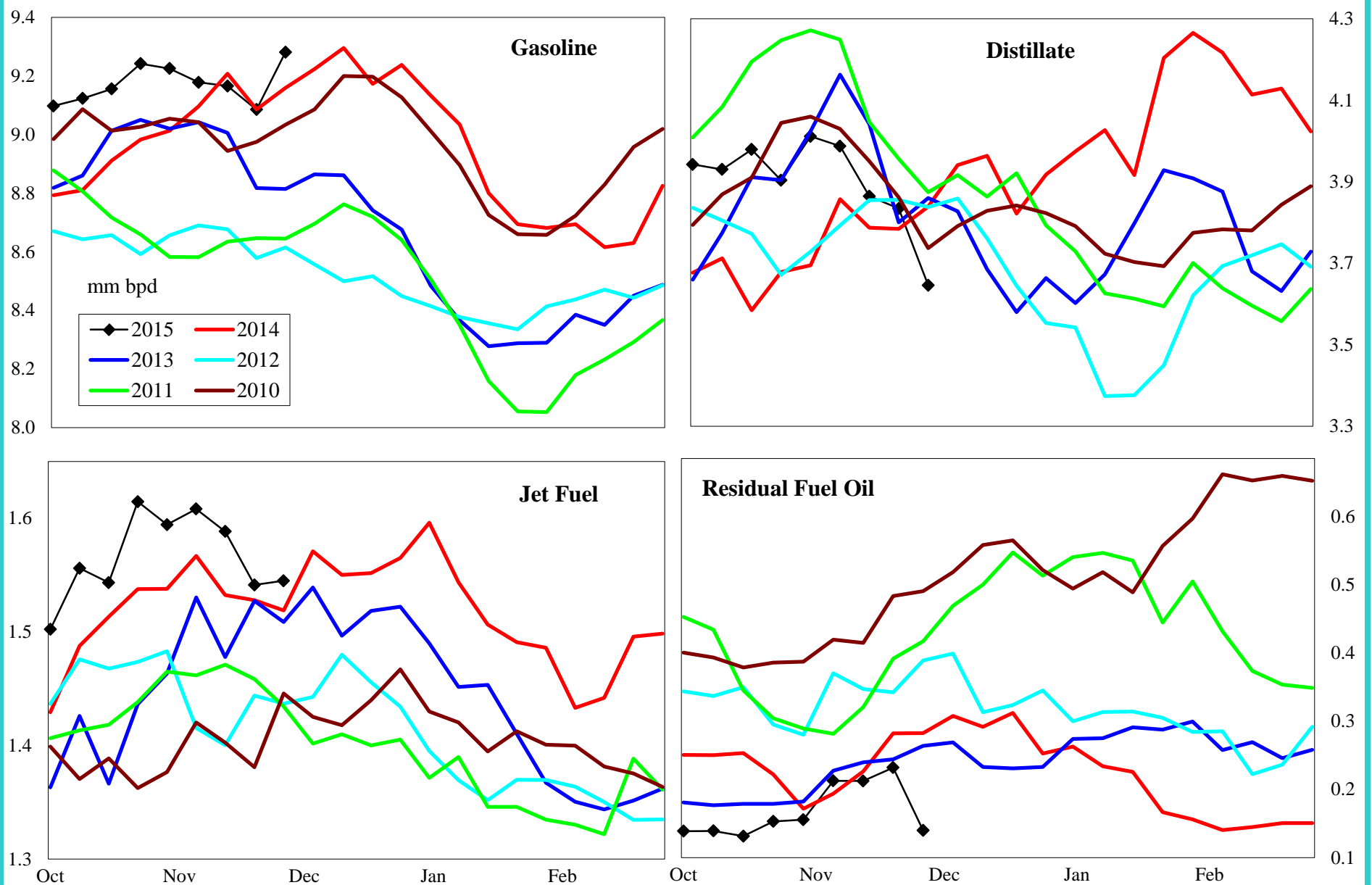
PADD 5 crude oil refinery runs increased +47,000 bpd on the week to a level above the historic range. The 4-wk average thru put rate was -16,000 bpd below last year.



Gasoline supply decreased -38,000 bpd on lower production; with the latest 4-wk average -32,000 bpd below last year. Production has dropped below the last 3-yrs for this time of year. Stocks were unchanged on the week, with the level matching 5-yr lows for the period.

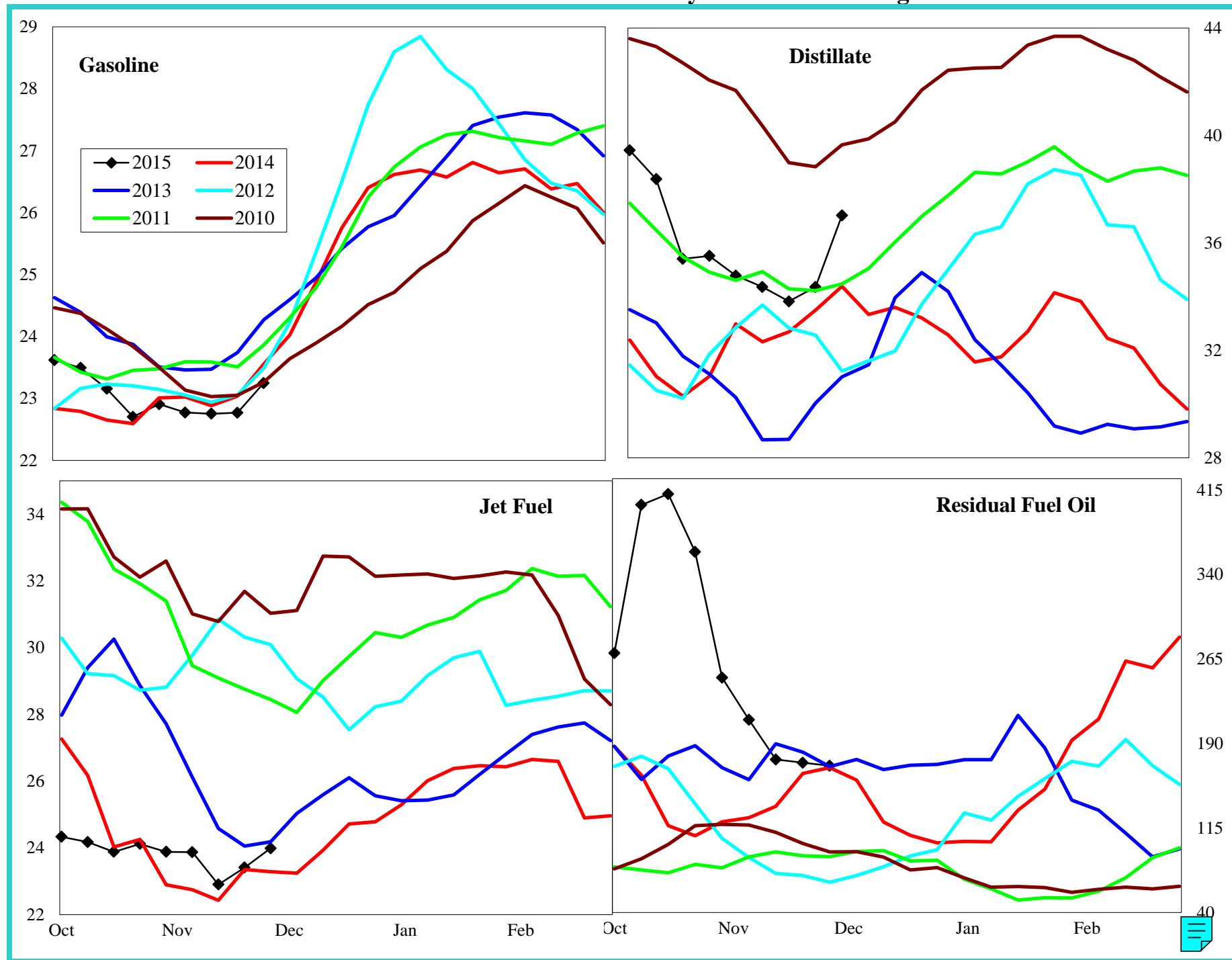
Distillate supply increased +94,000 bpd on the week, with production matching historic highs for the quarter. The 4-wk average supply was -48,000 bpd below last year. Stocks ended the week at a level near the 3-yr mid range.

United States Wholesale Petroleum Demand

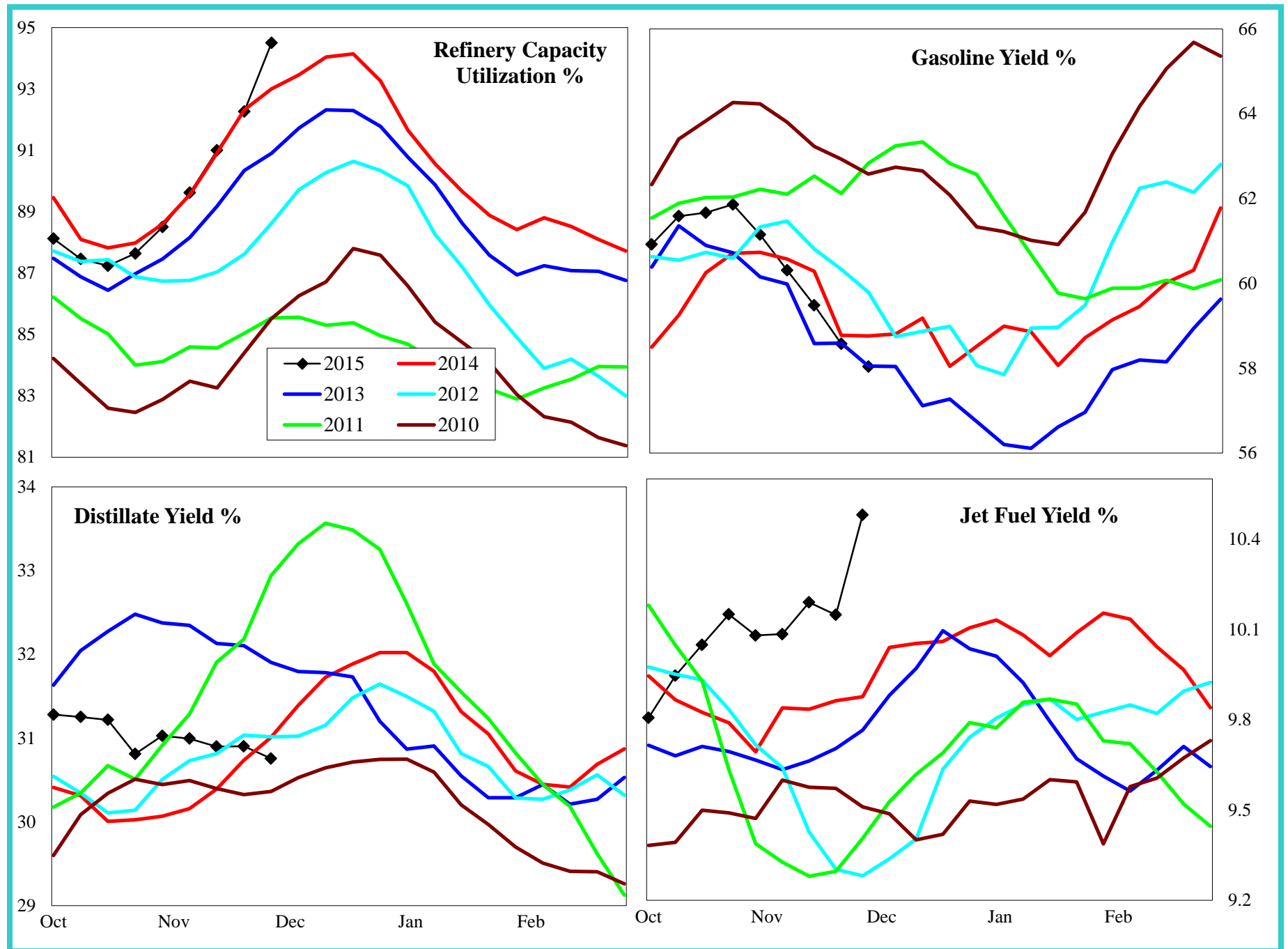


| | 000 bpd change from prior year | | | | % change from prior year | | | |
|-------------------|--------------------------------|------|------|------|--------------------------|-------|-------|------|
| | 4wk avg | Oct | Sep | Aug | 4wk avg | Oct | Sep | Aug |
| Gasoline | -59 | 9 | 269 | 218 | -0.6 | 0.1 | 3.1 | 2.3 |
| Distillate | -35 | -312 | 30 | -116 | -0.9 | -7.4 | 0.8 | -3.0 |
| Jet Fuel | 62 | 110 | 74 | 90 | 4.0 | 7.5 | 5.0 | 5.9 |
| Resid | 8 | -173 | -133 | 14 | 3.8 | -59.2 | -49.8 | 6.6 |

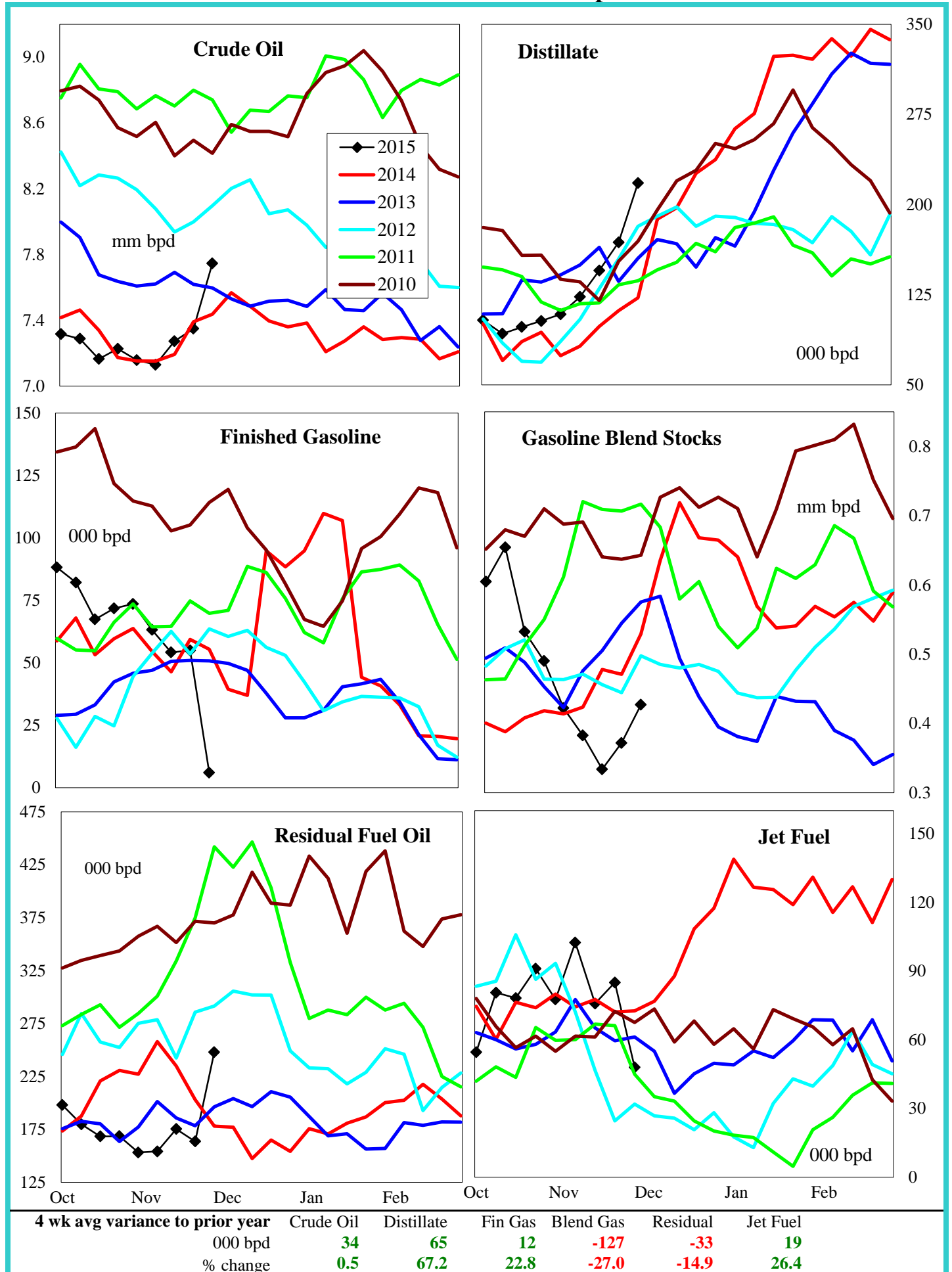


United States Product Stocks: Days Forward Coverage

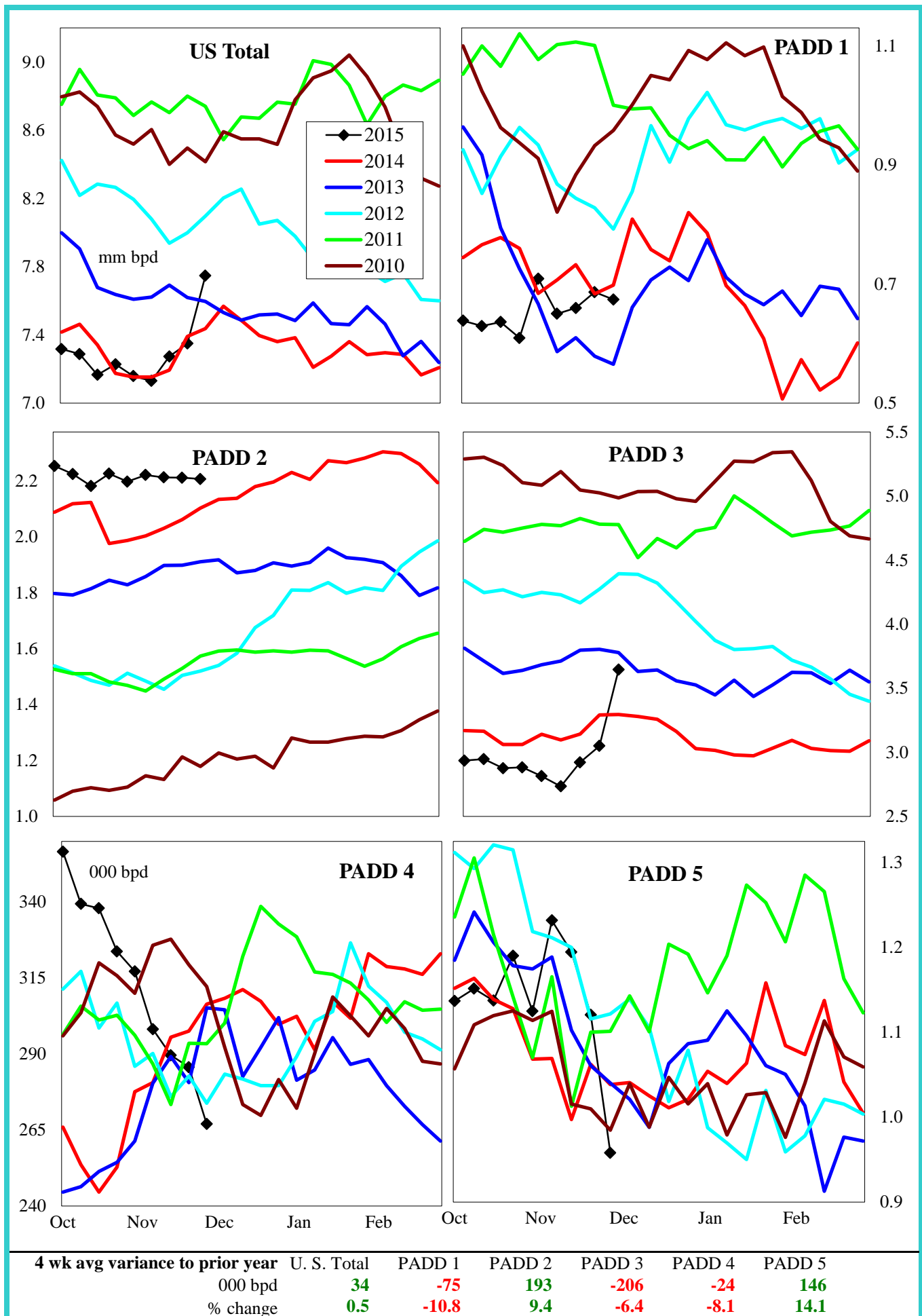
United States Refinery Percent Utilization Rate and Product Yields



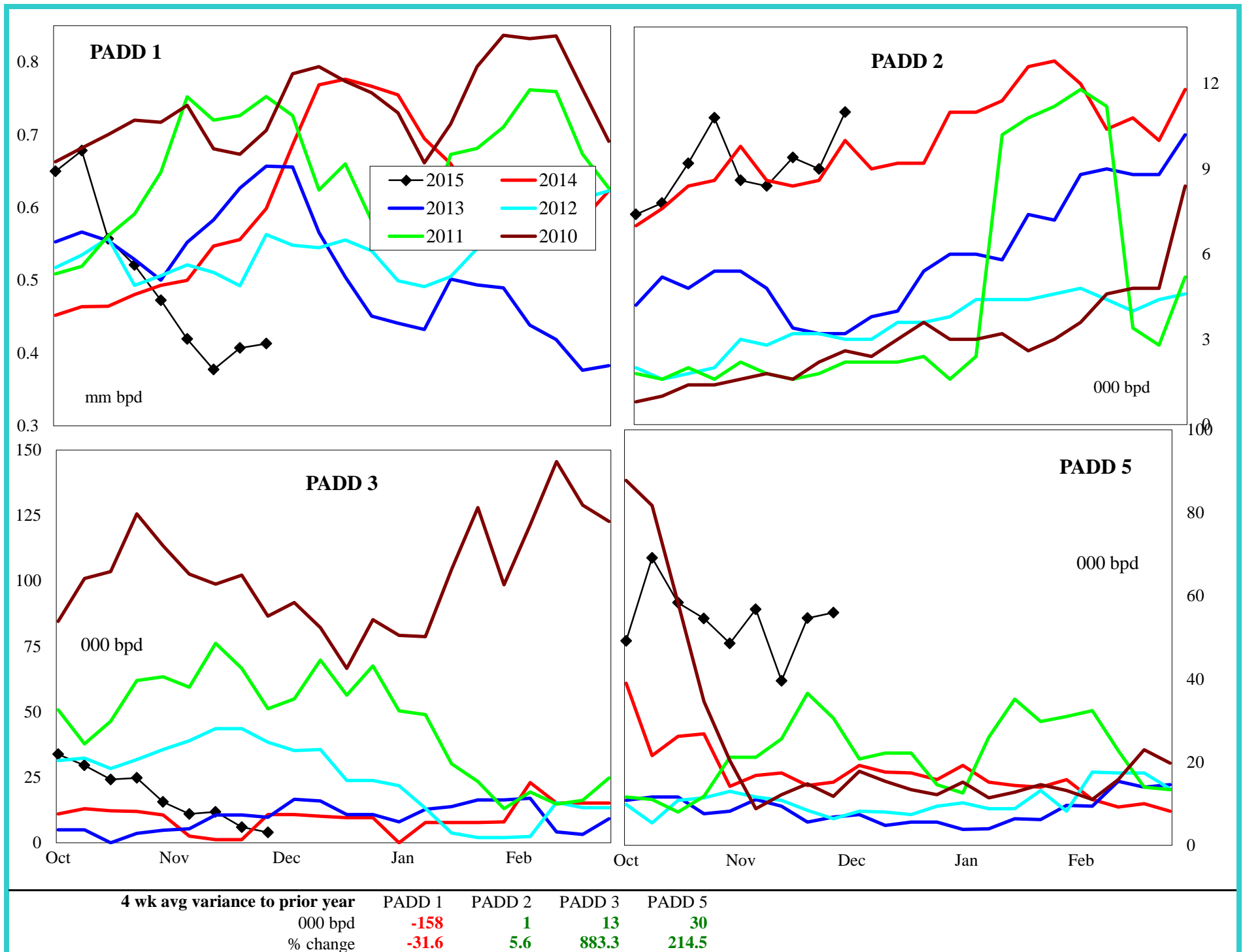
United States Petroleum Imports



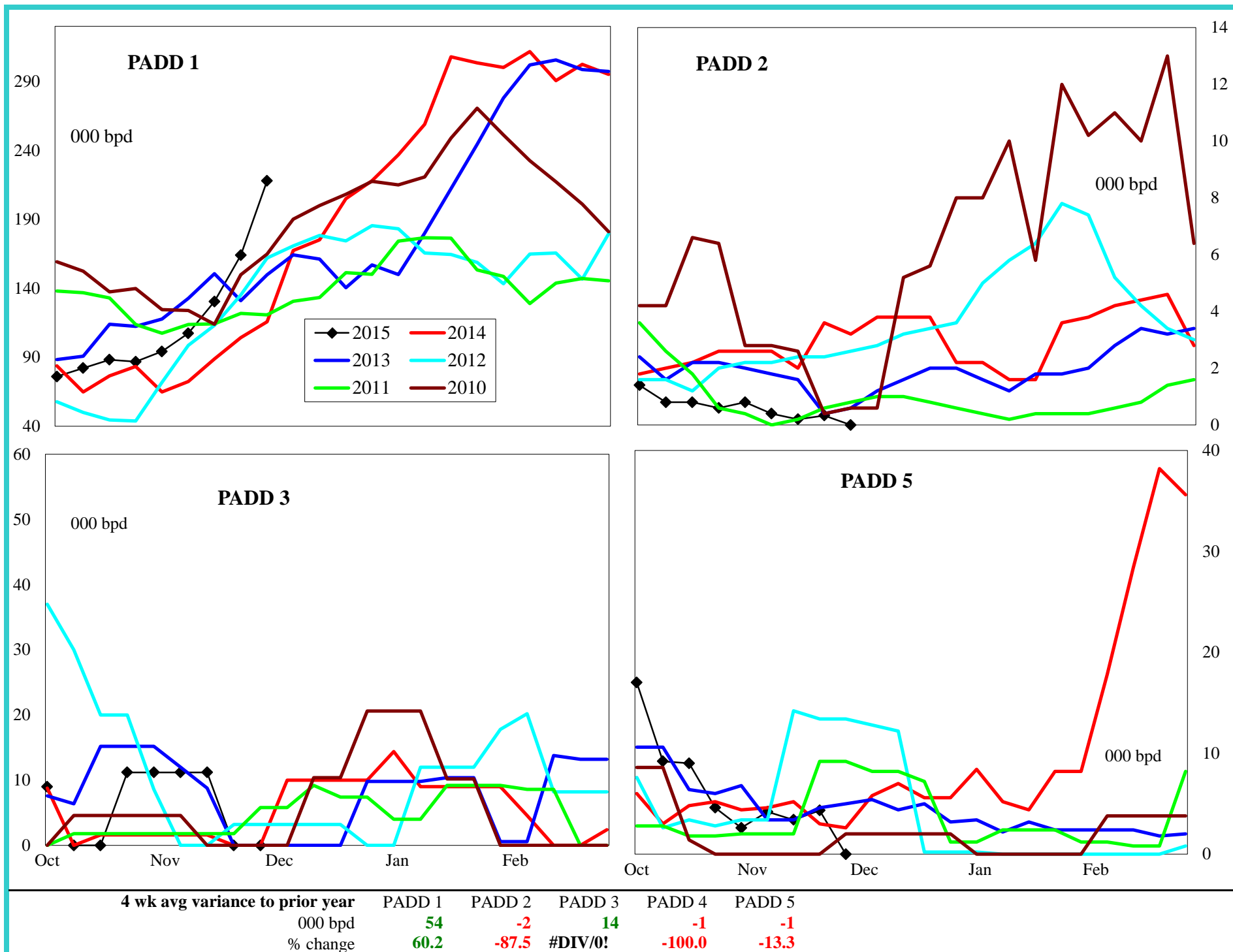
Crude Oil Imports by PADD



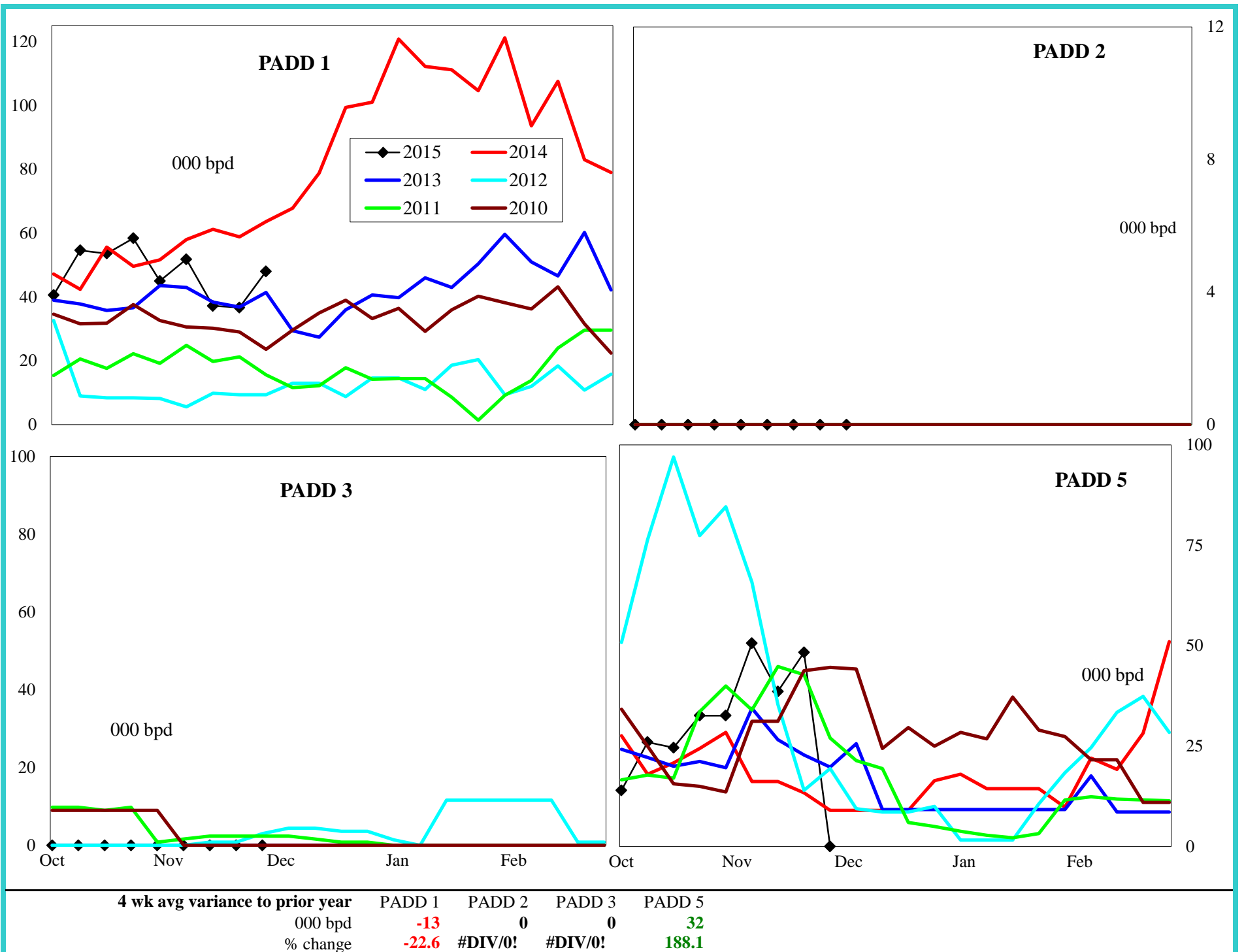
Gasoline Imports by PADD (Finished + Blend Stocks)



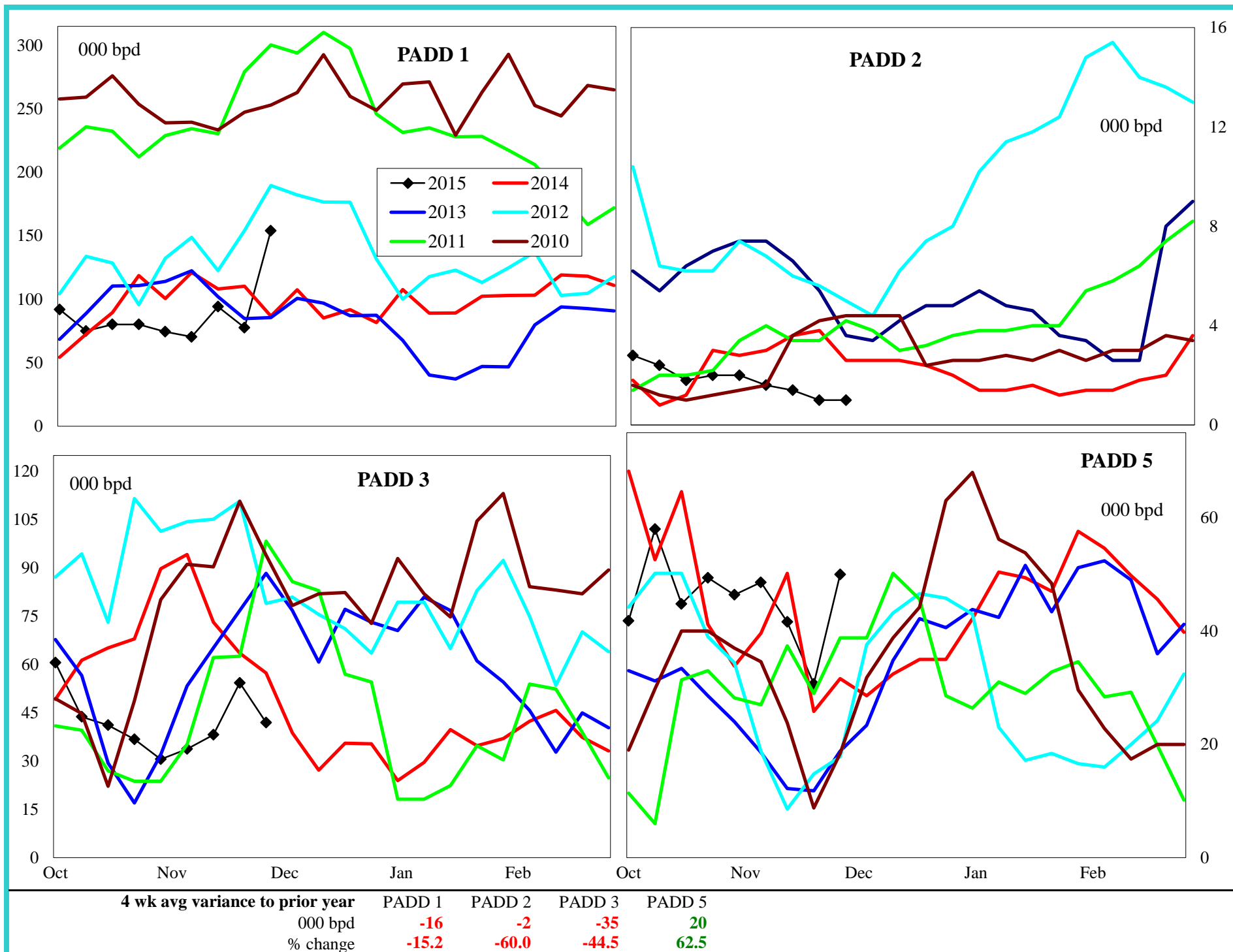
Distillate Imports by PADD



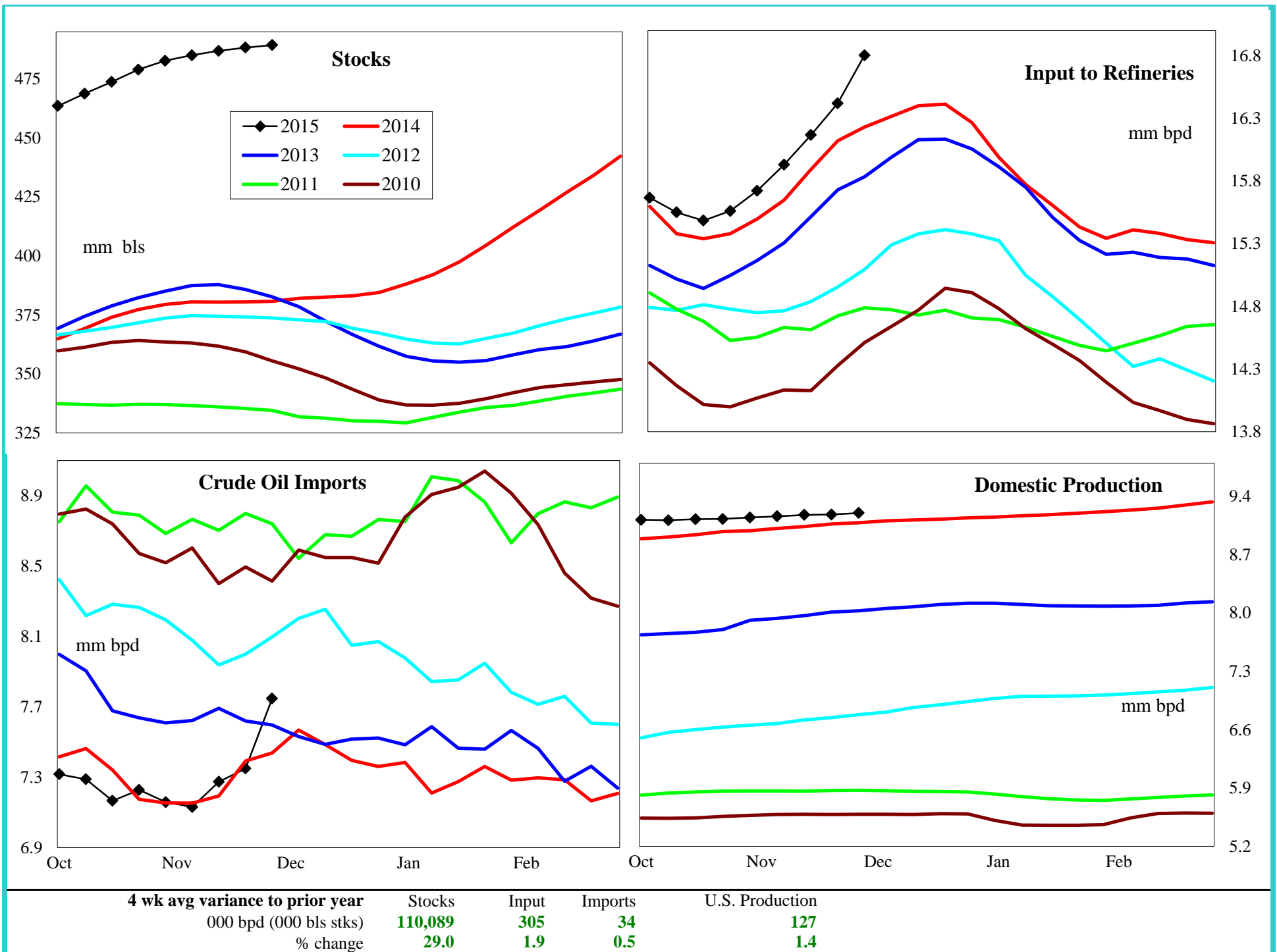
Jet Fuel Imports by PADD



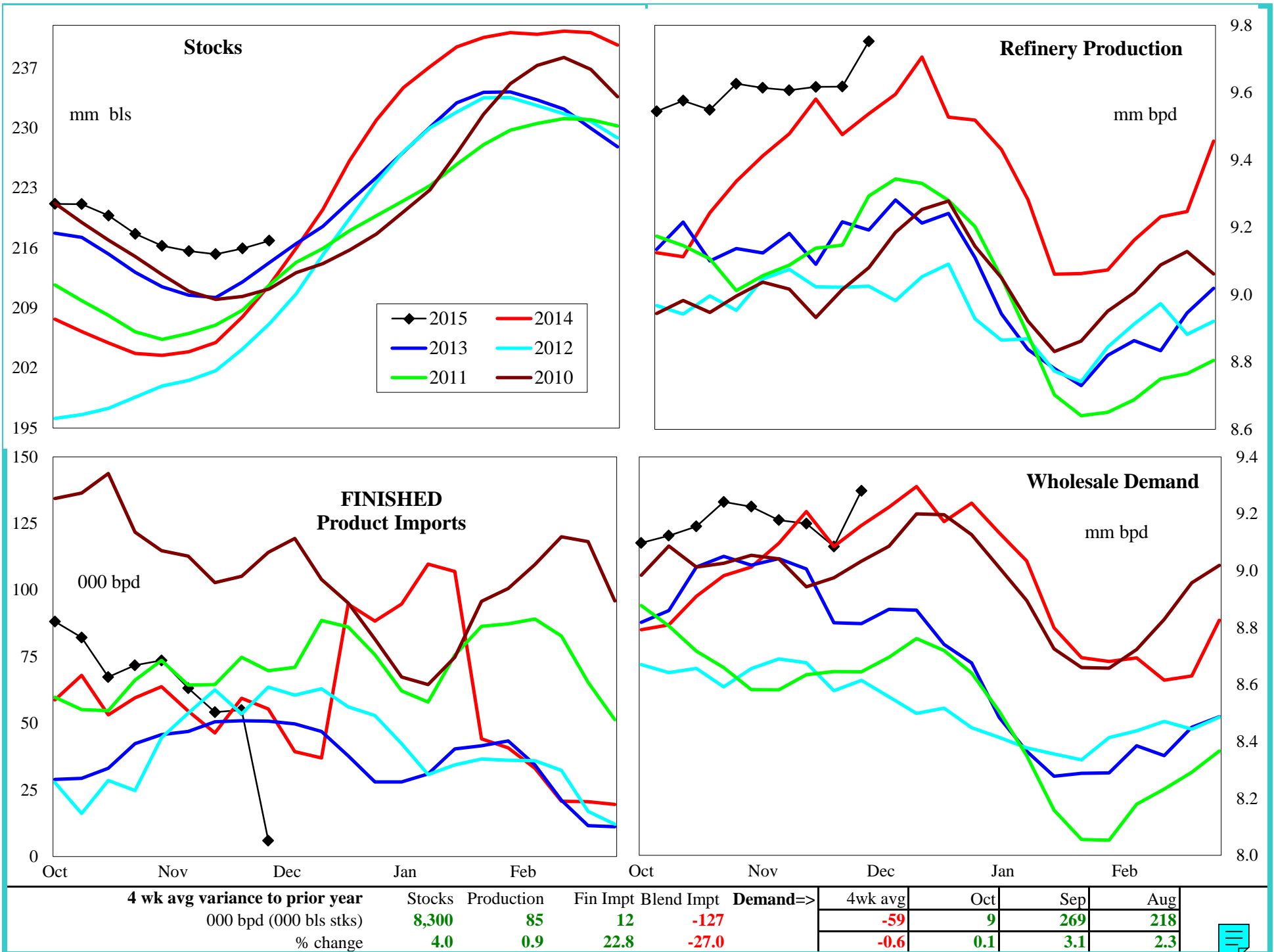
Residual Fuel Oil Imports by PADD



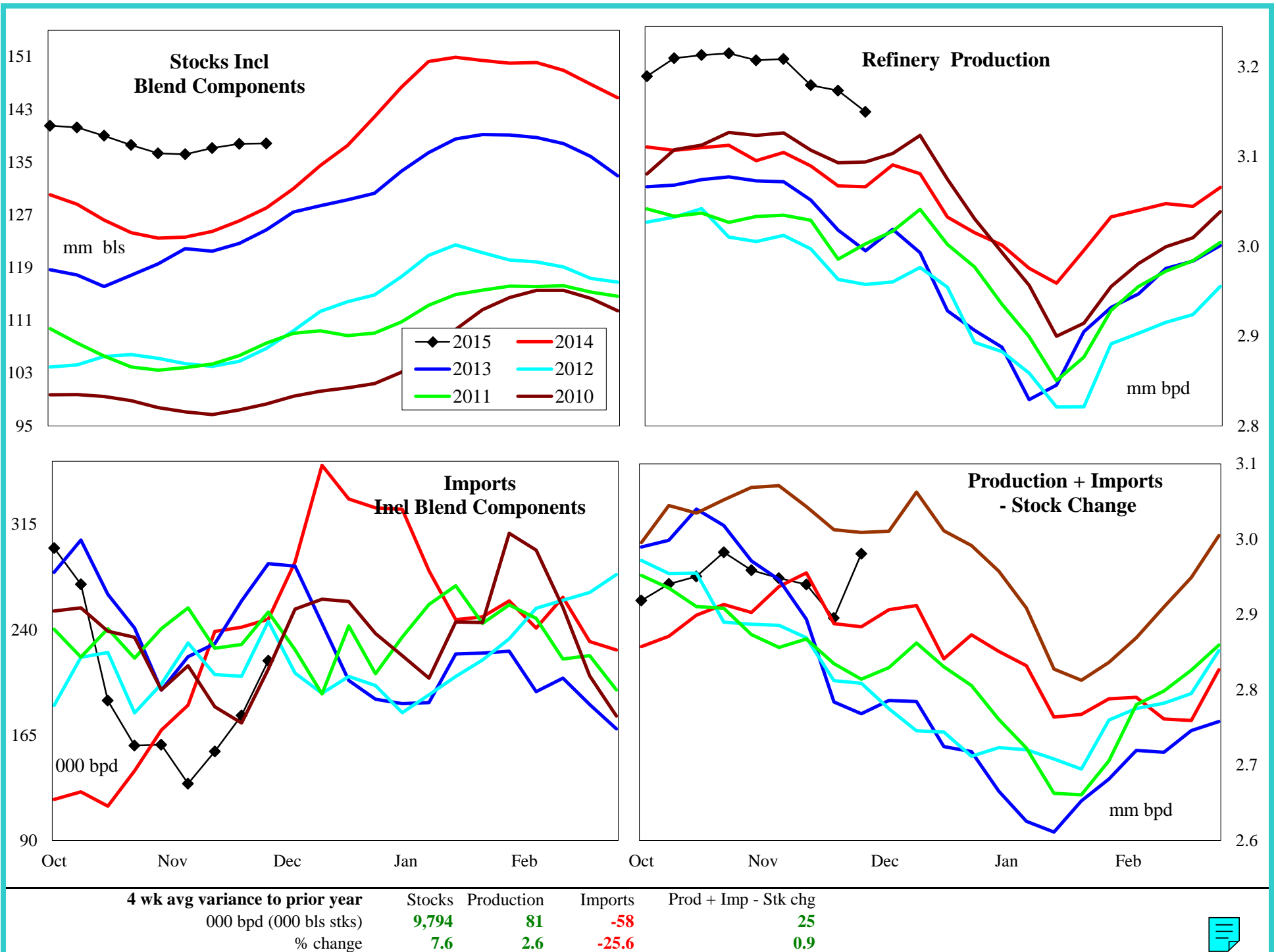
United States Crude Oil Supply and Demand Balance



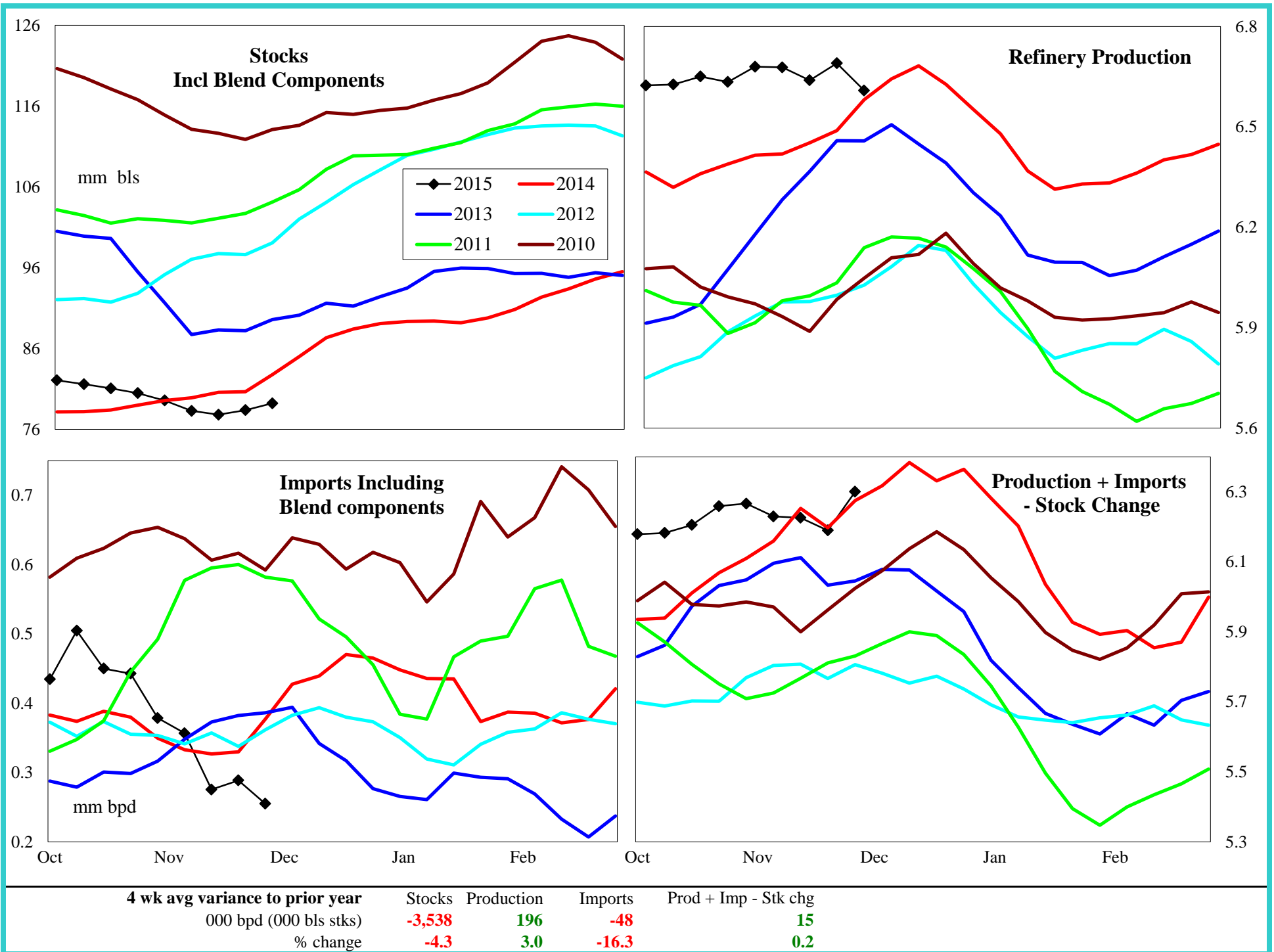
United States Gasoline Supply and Demand Balance



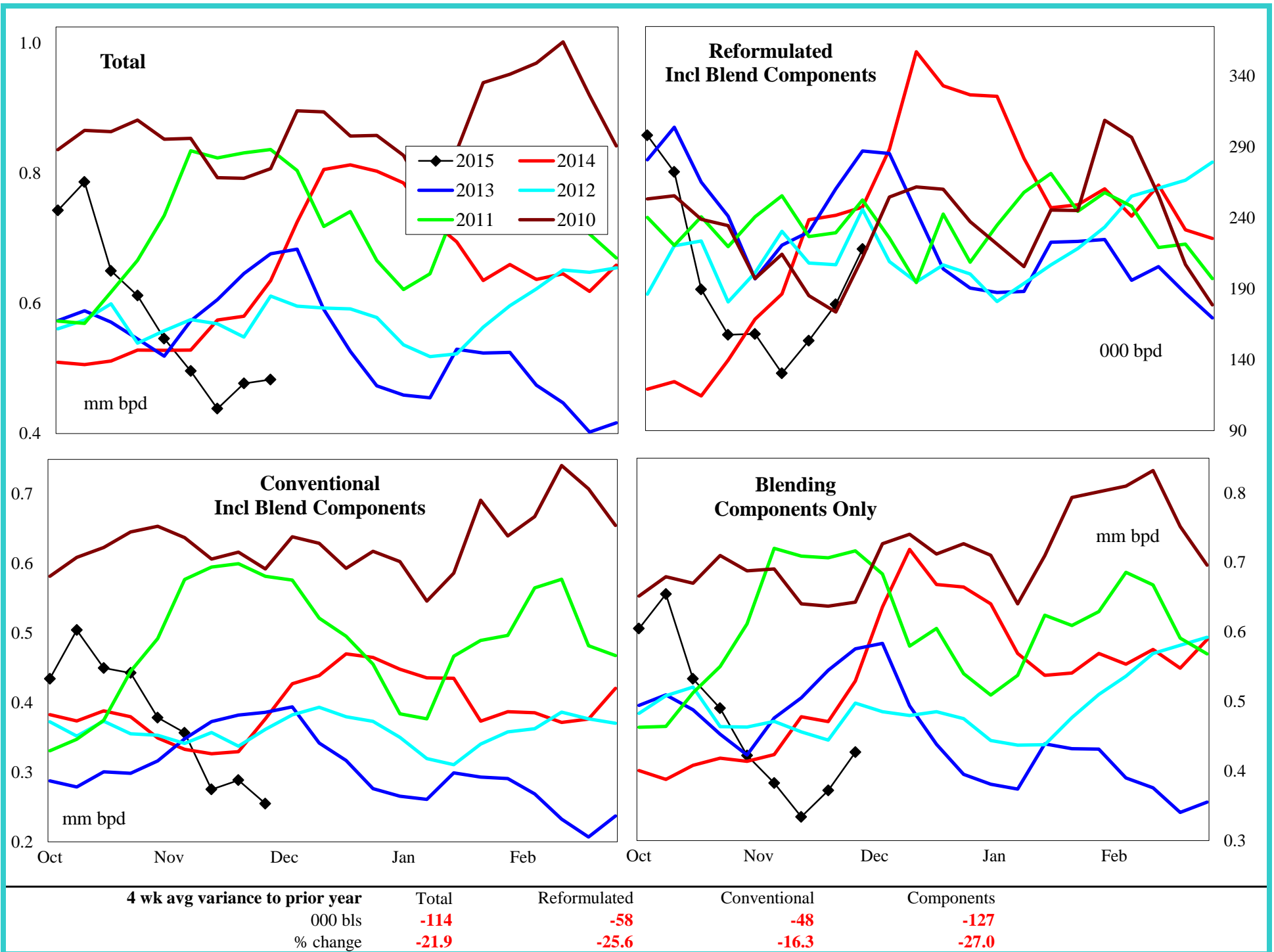
United States Reformulated Gasoline Supply



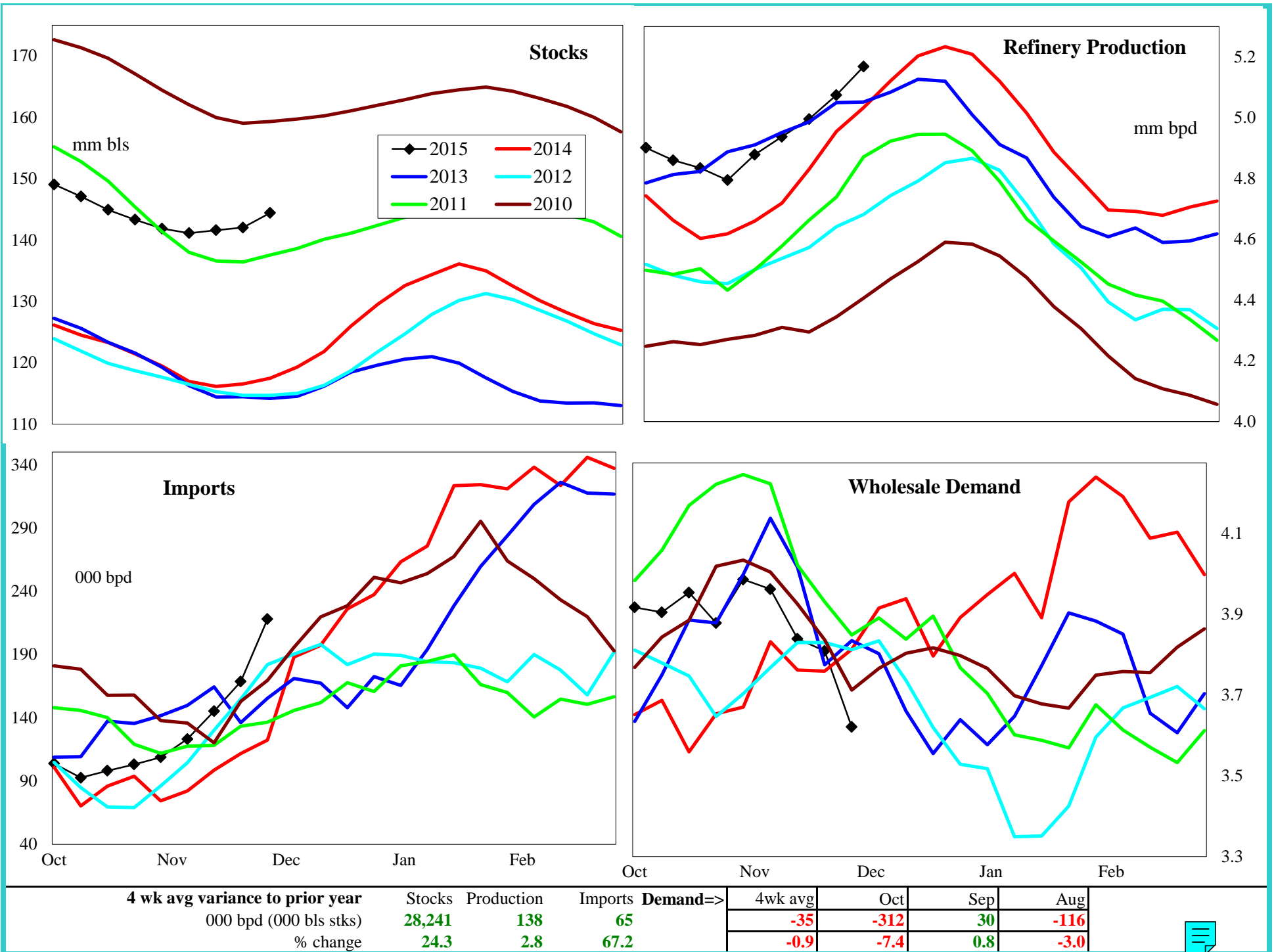
United States Conventional Gasoline Supply



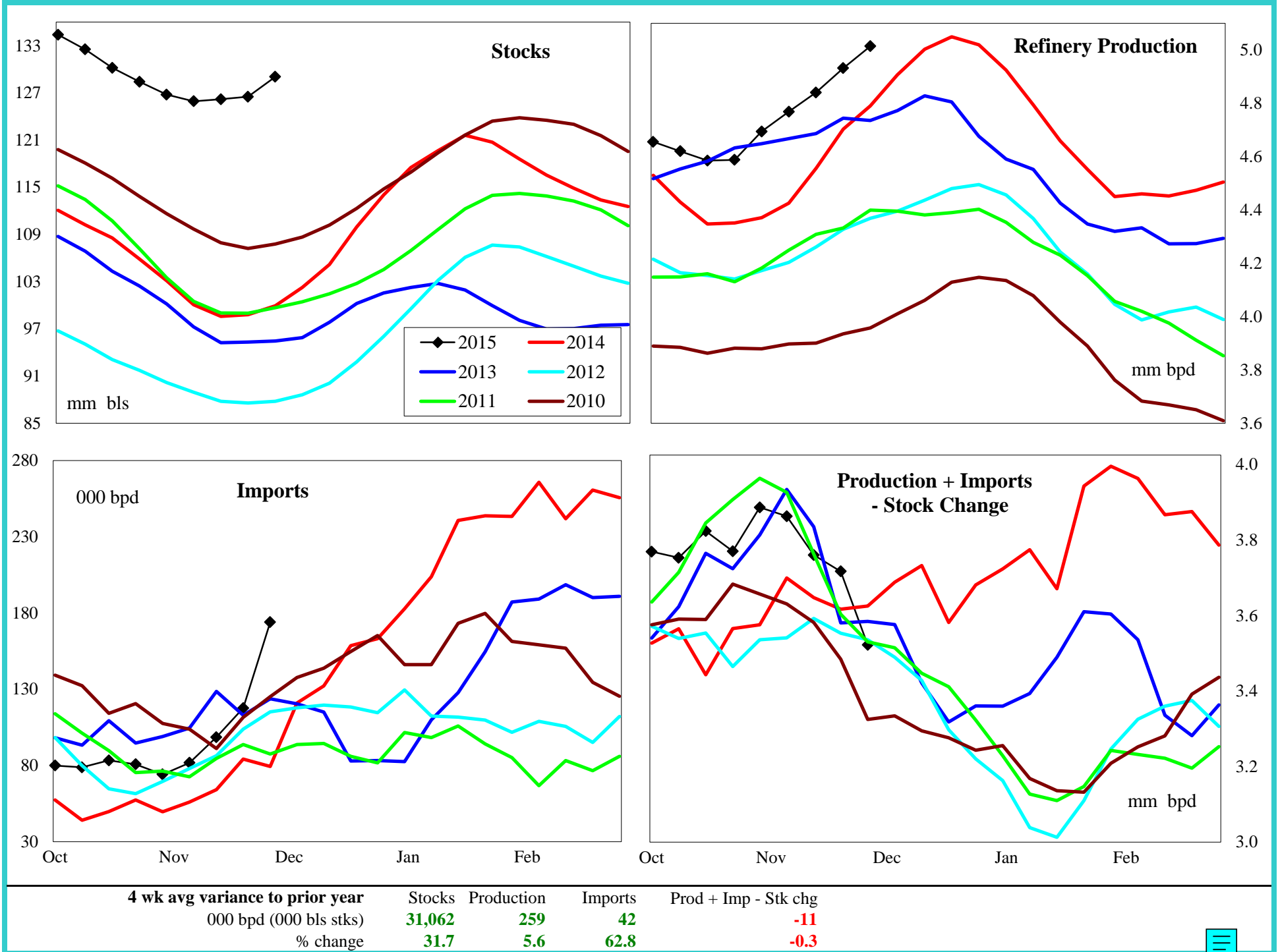
United States Gasoline Imports by Type



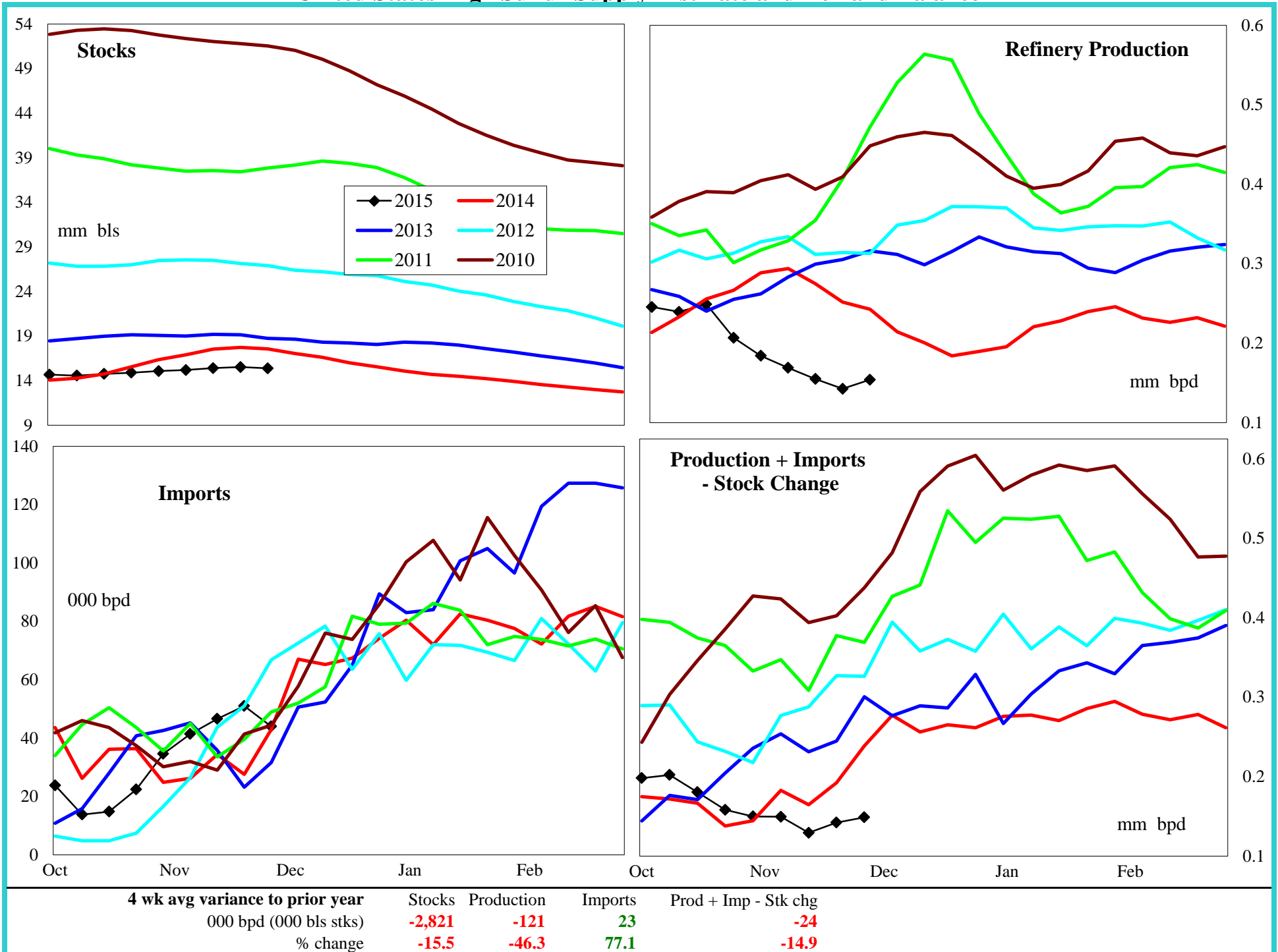
United States Distillate Supply and Demand Balance



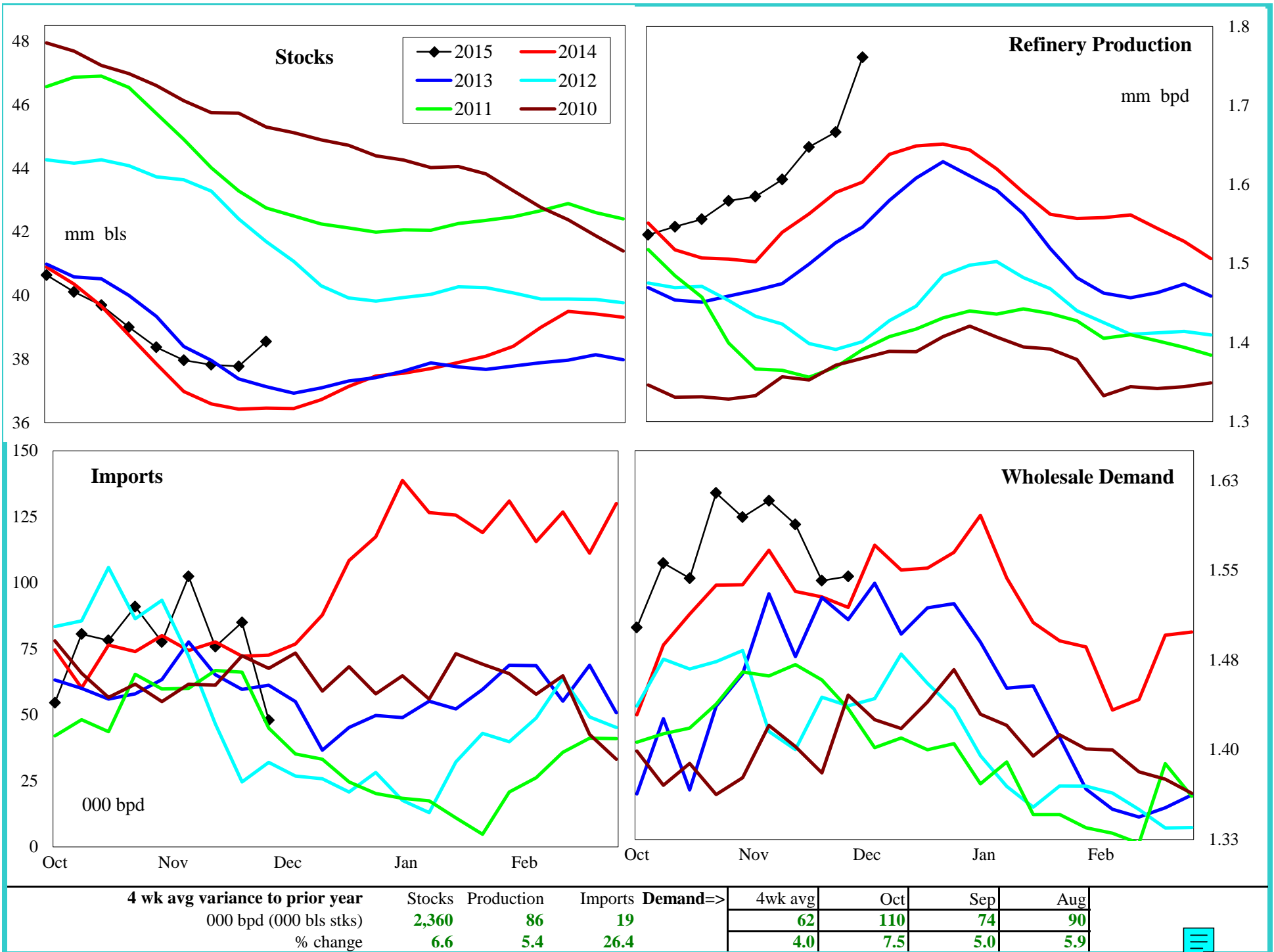
United States Low Sulfur Distillate Supply and Demand Balance



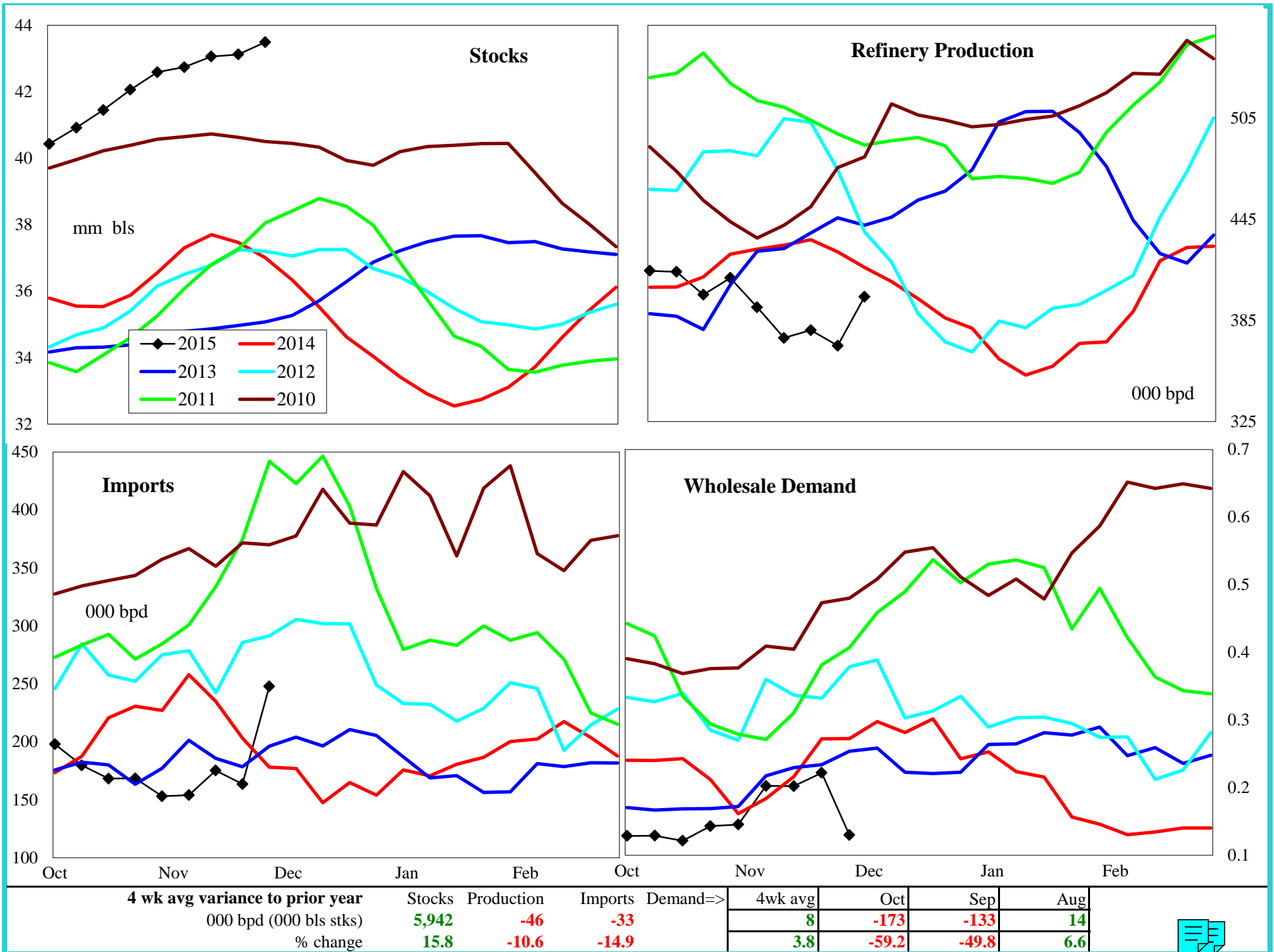
United States High Sulfur Supply Distillate and Demand Balance



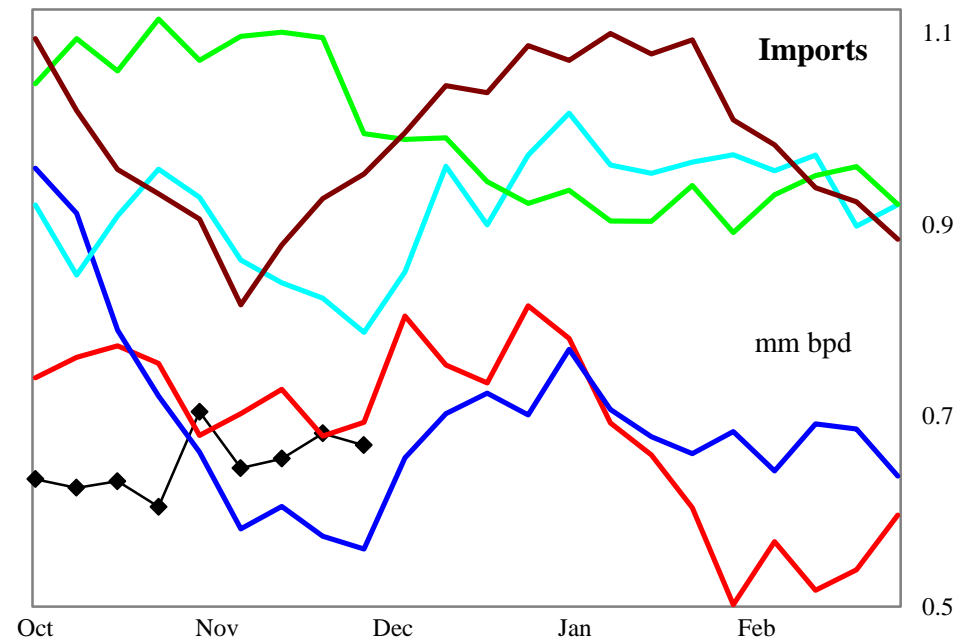
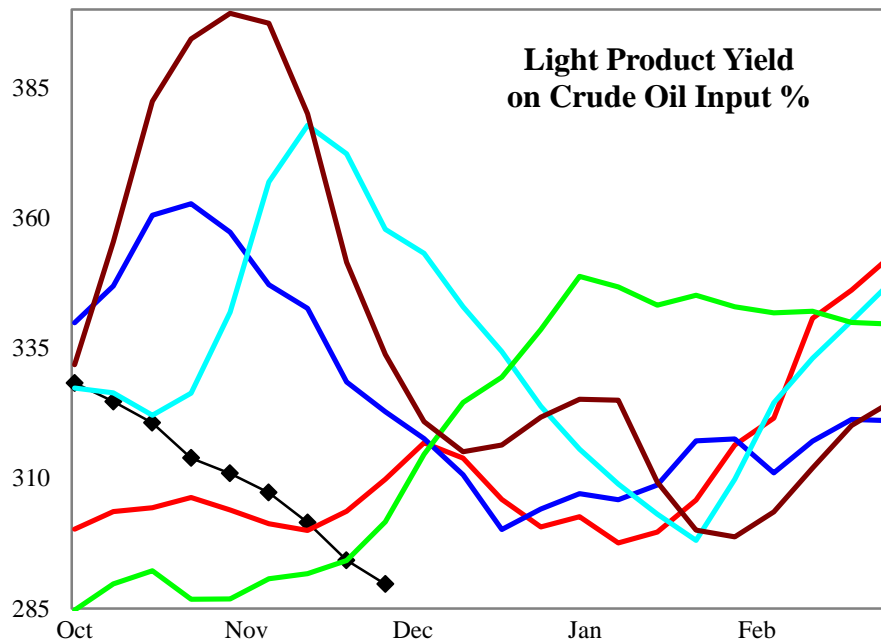
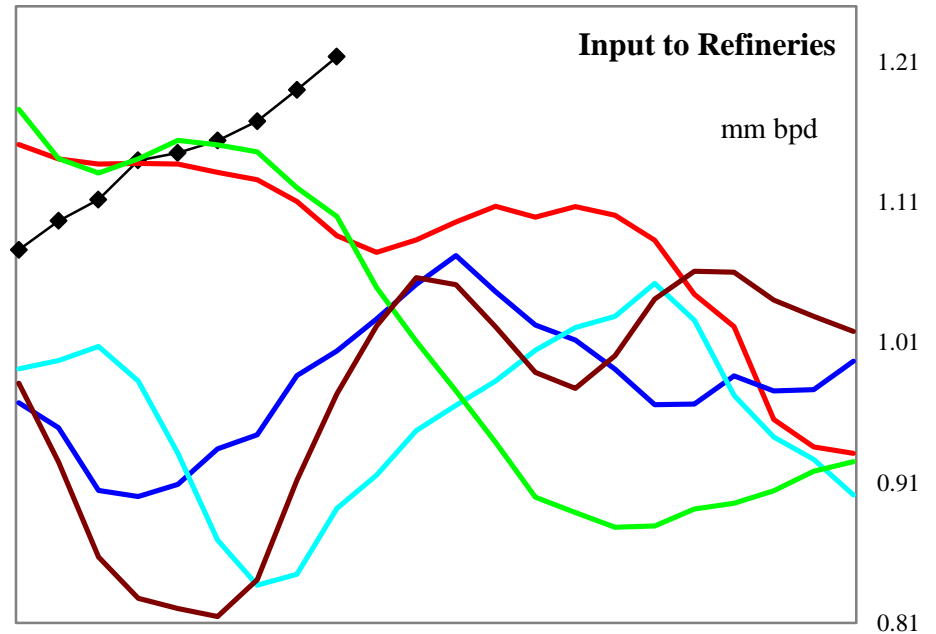
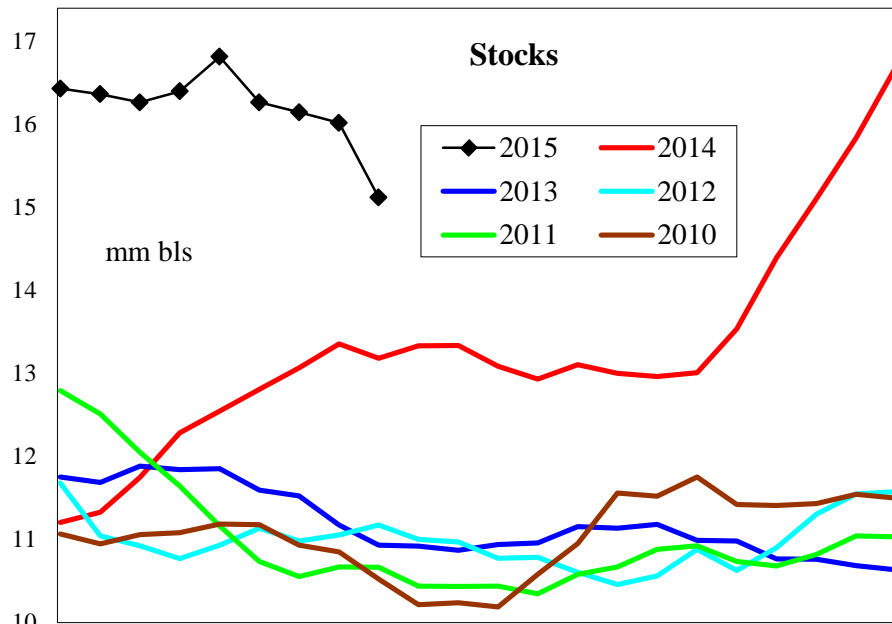
United States Jet Fuel Supply and Demand Balance



United States Residual Fuel Supply and Demand Balance



PADD 1 Crude Oil Supply and Refining



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

1,934

15.1

Input

60

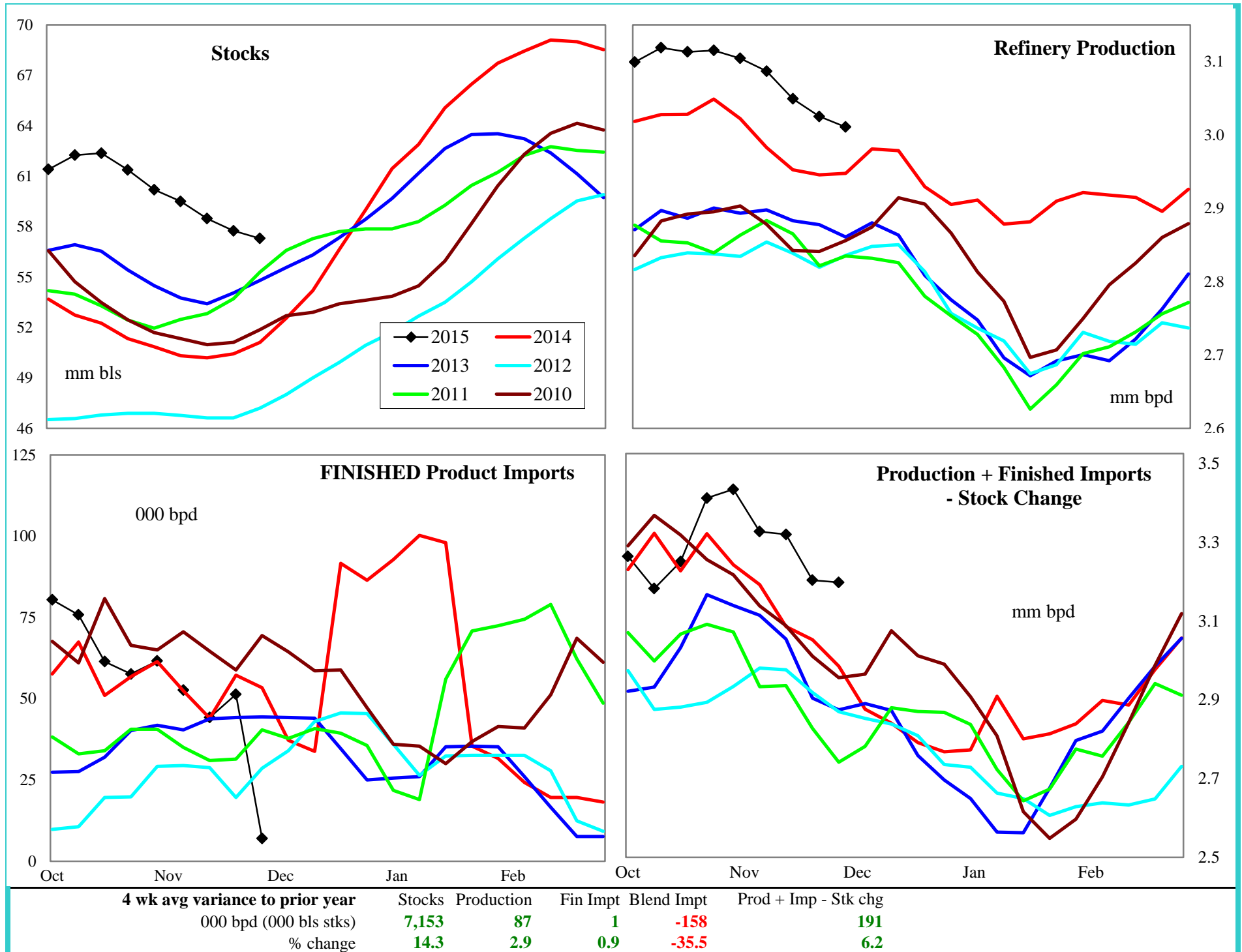
5.3

Imports

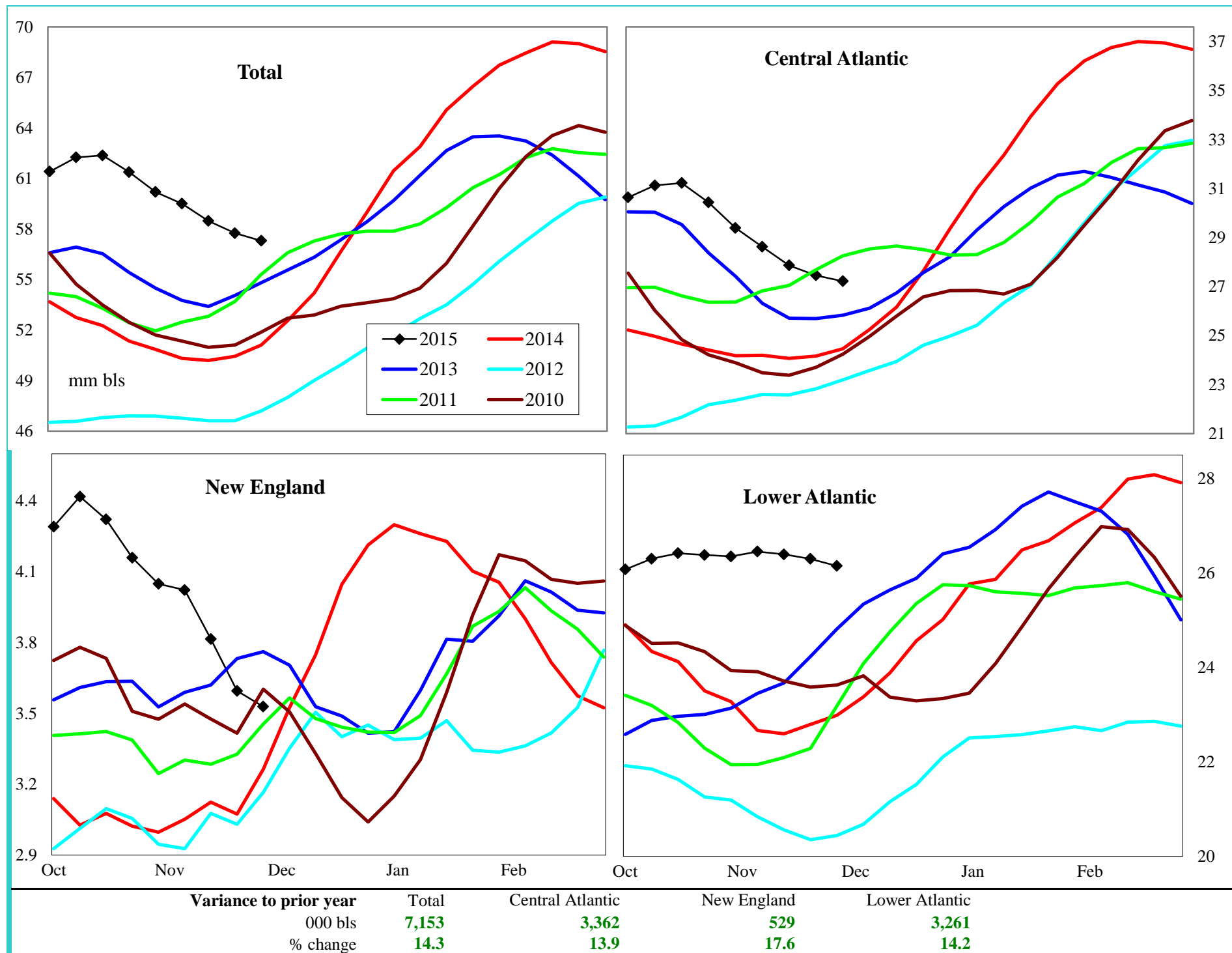
-75

-10.8

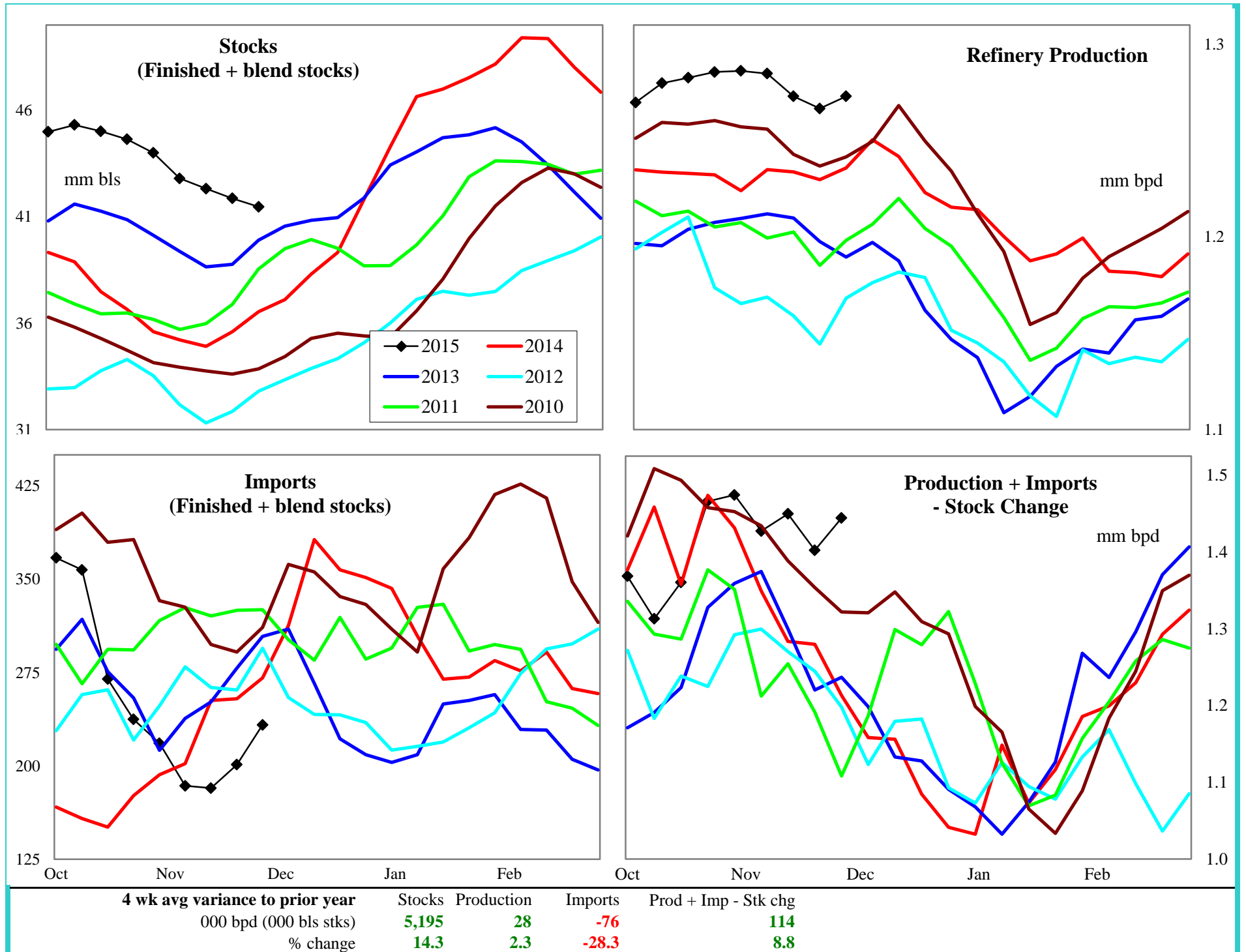
PADD 1 Gasoline Supply



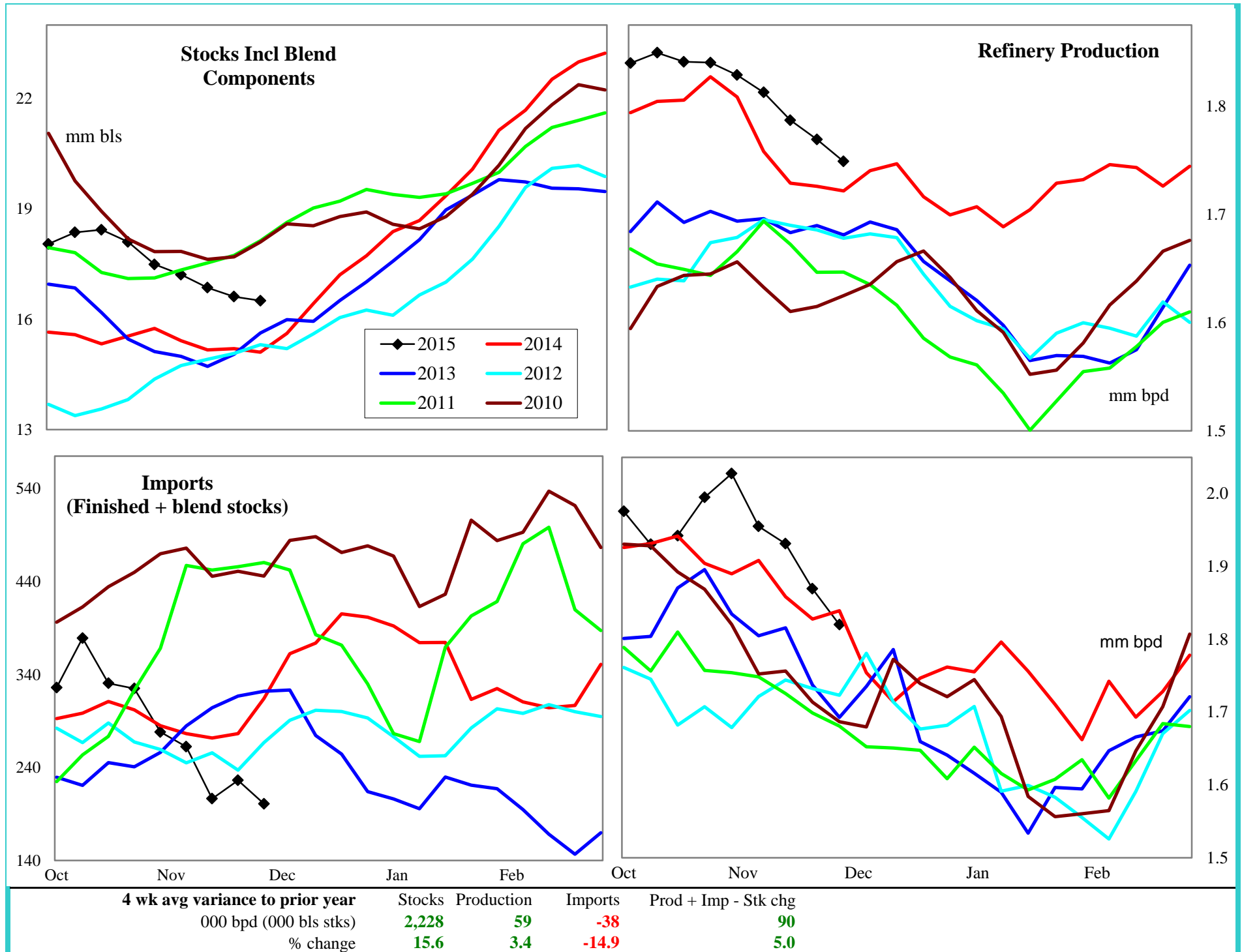
PADD 1 Gasoline Stocks by Region



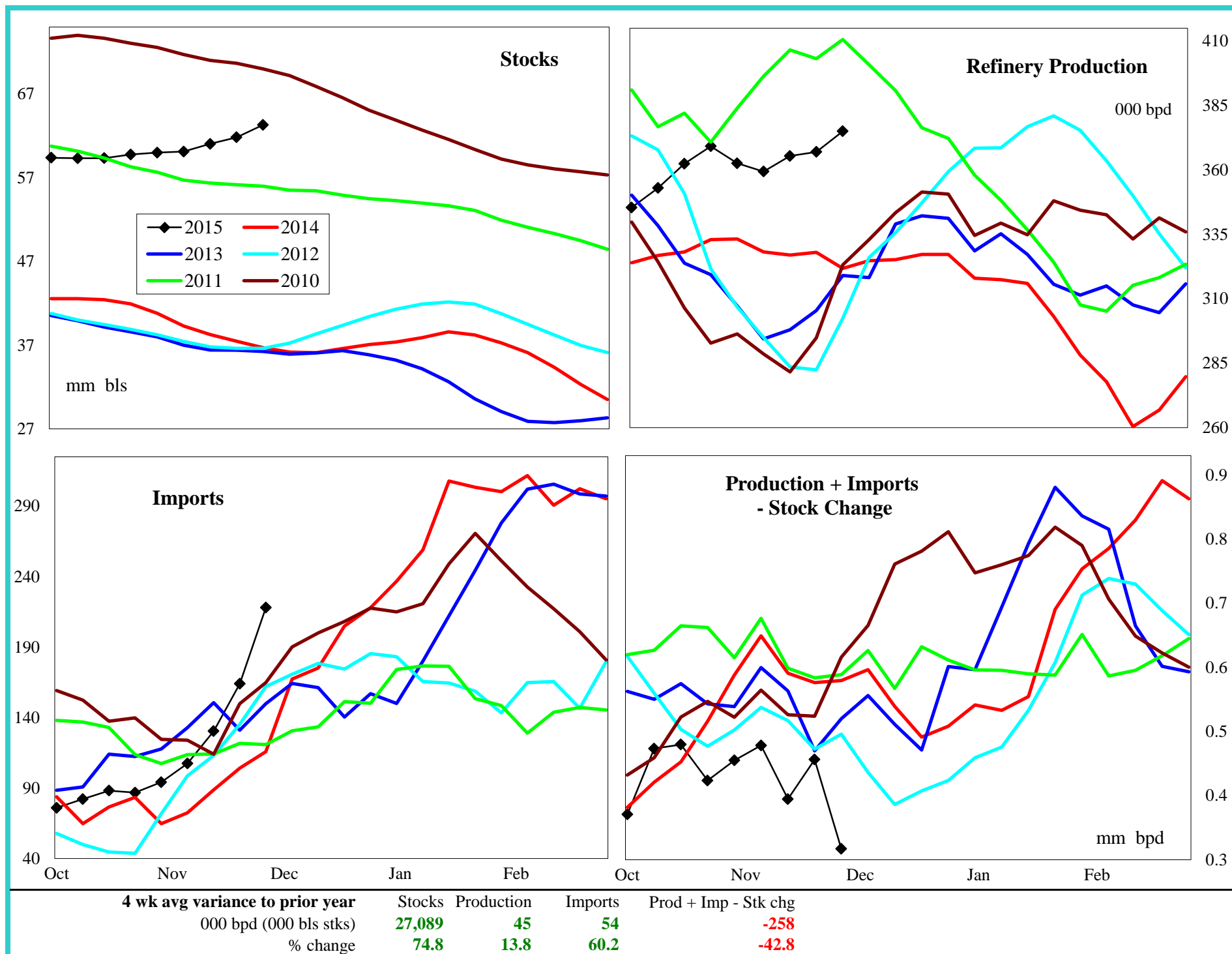
PADD 1 Reformulated Gasoline Supply



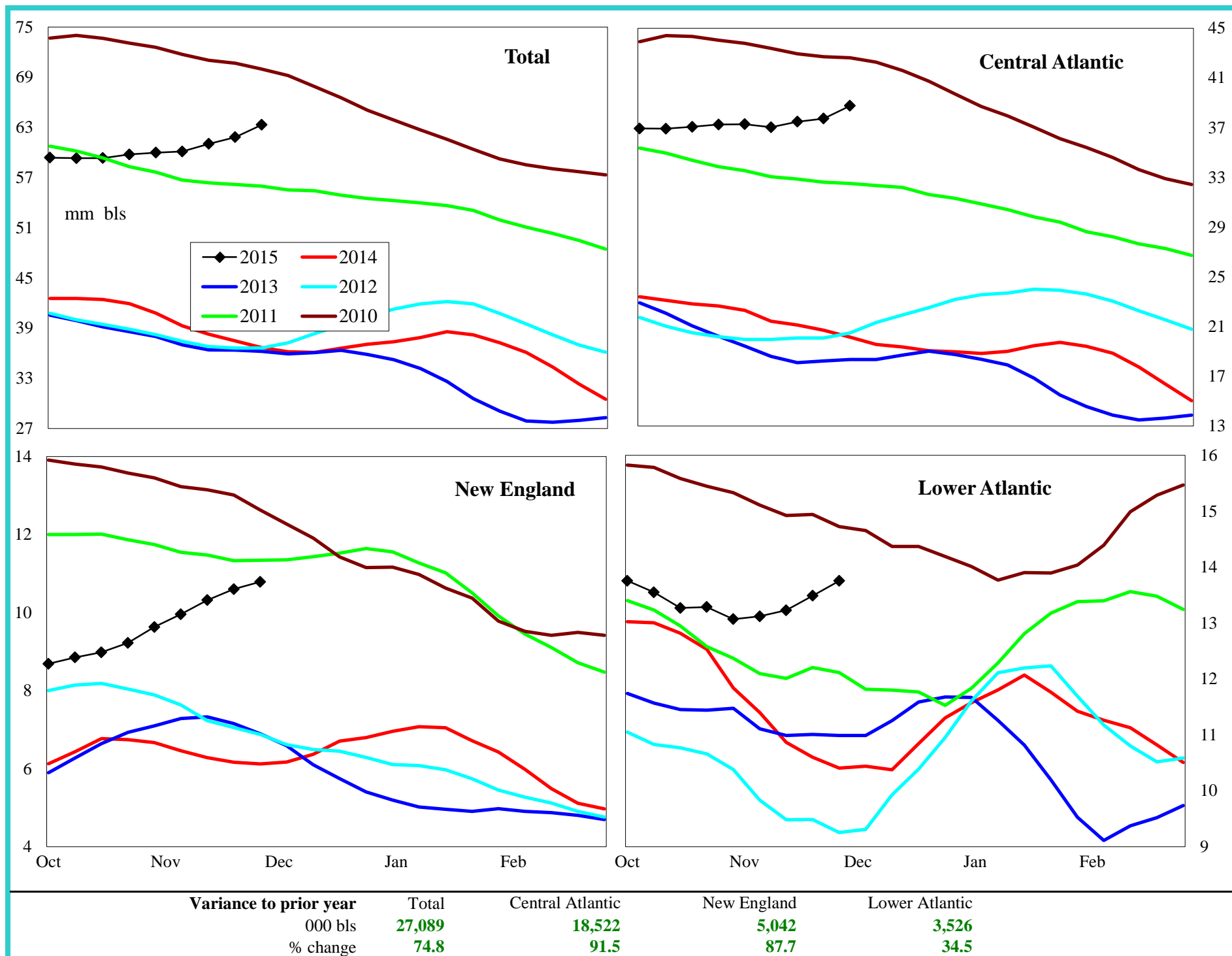
PADD 1 Conventional Gasoline Supply



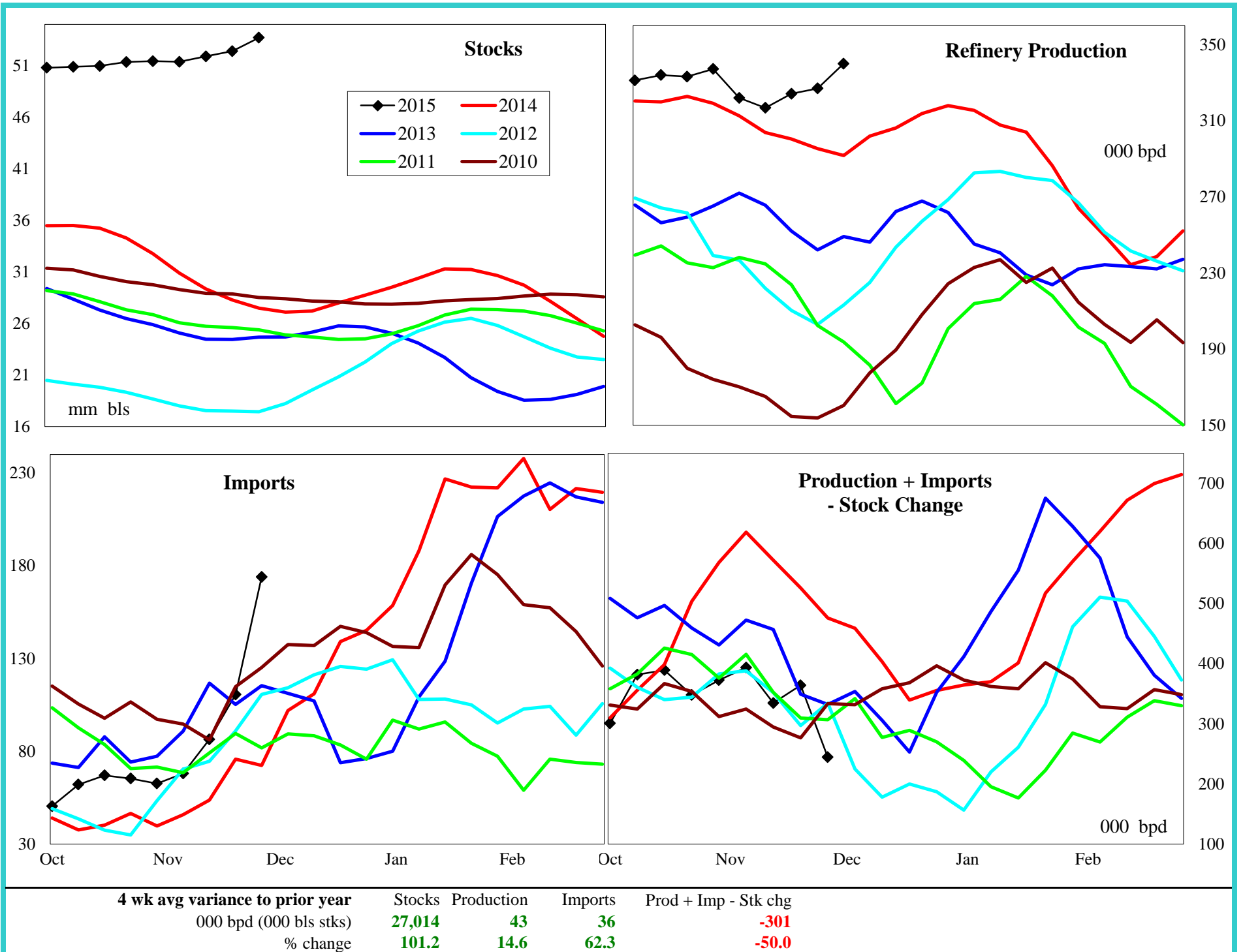
PADD 1 Distillate Supply



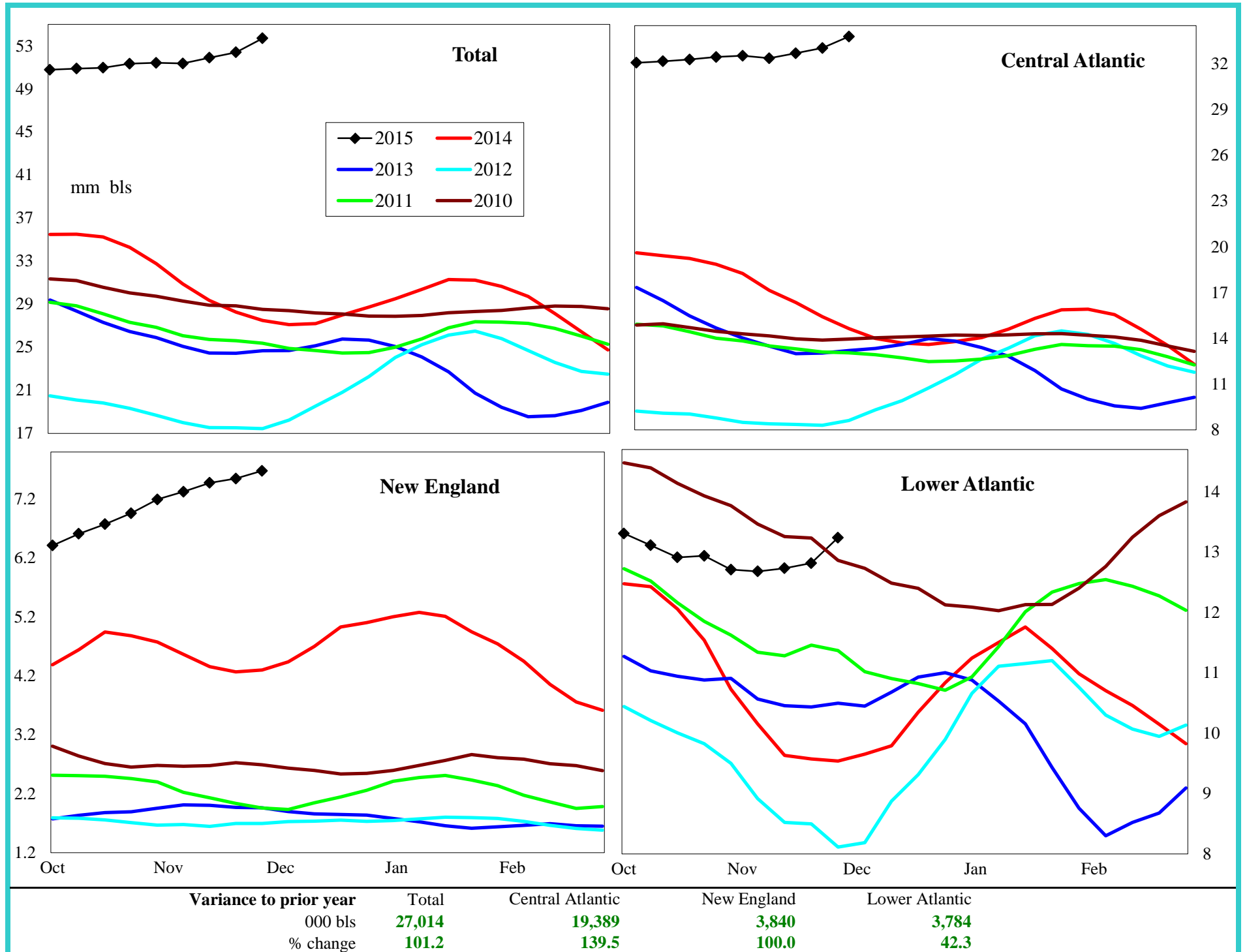
PADD 1 Distillate Stocks by Region



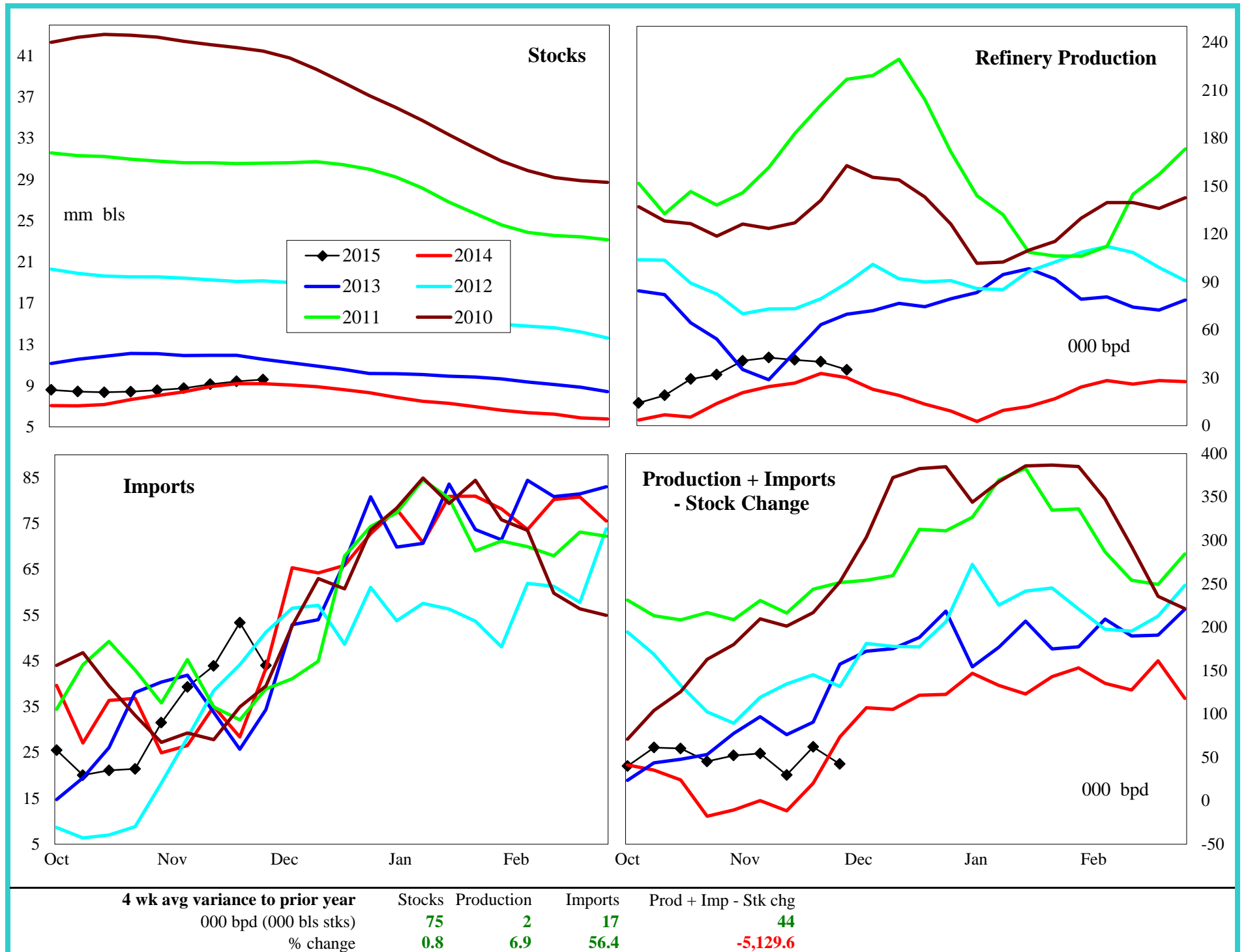
PADD 1 Low Sulfur Distillate Supply



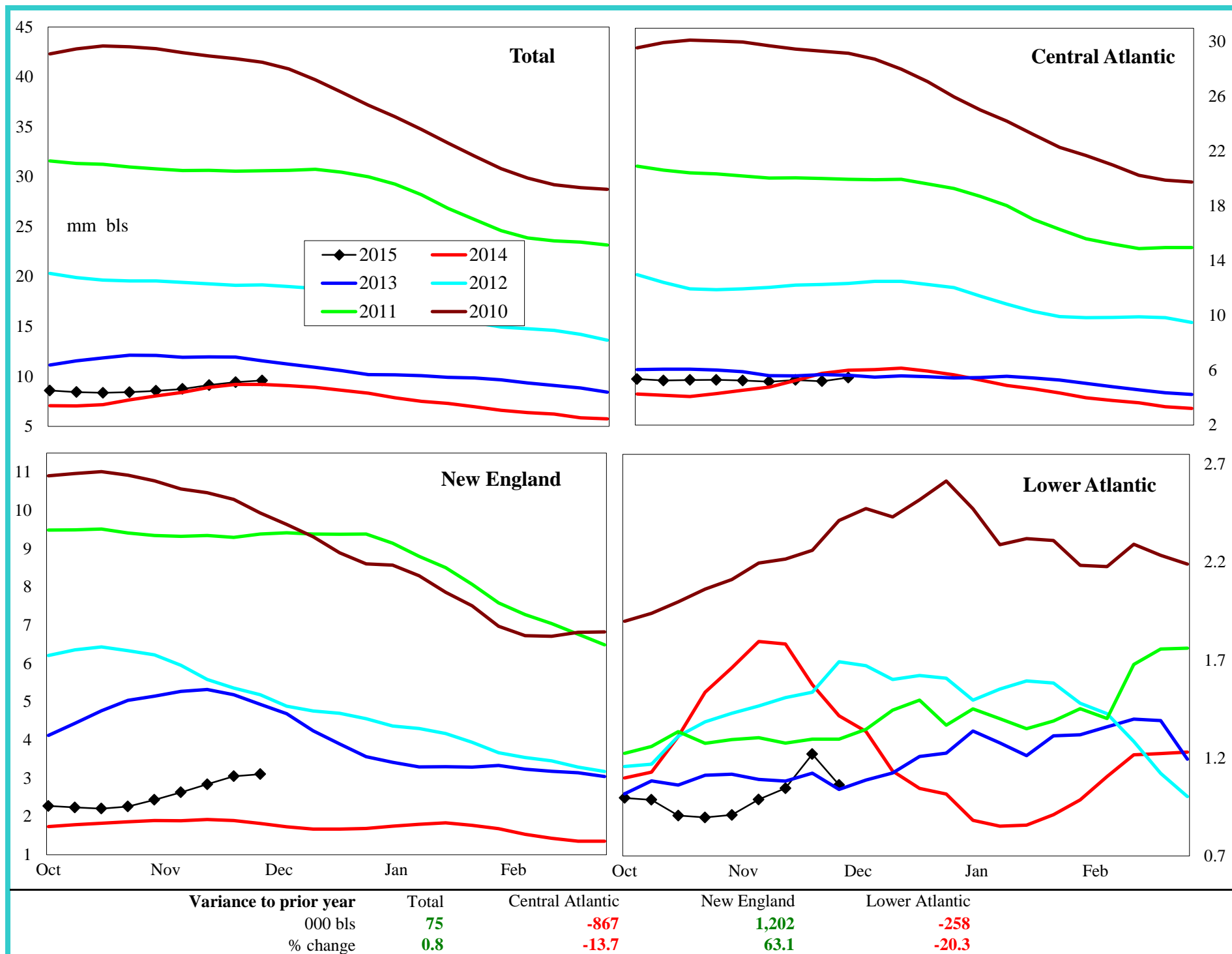
PADD 1 Low Sulfur Distillate Stocks by Region



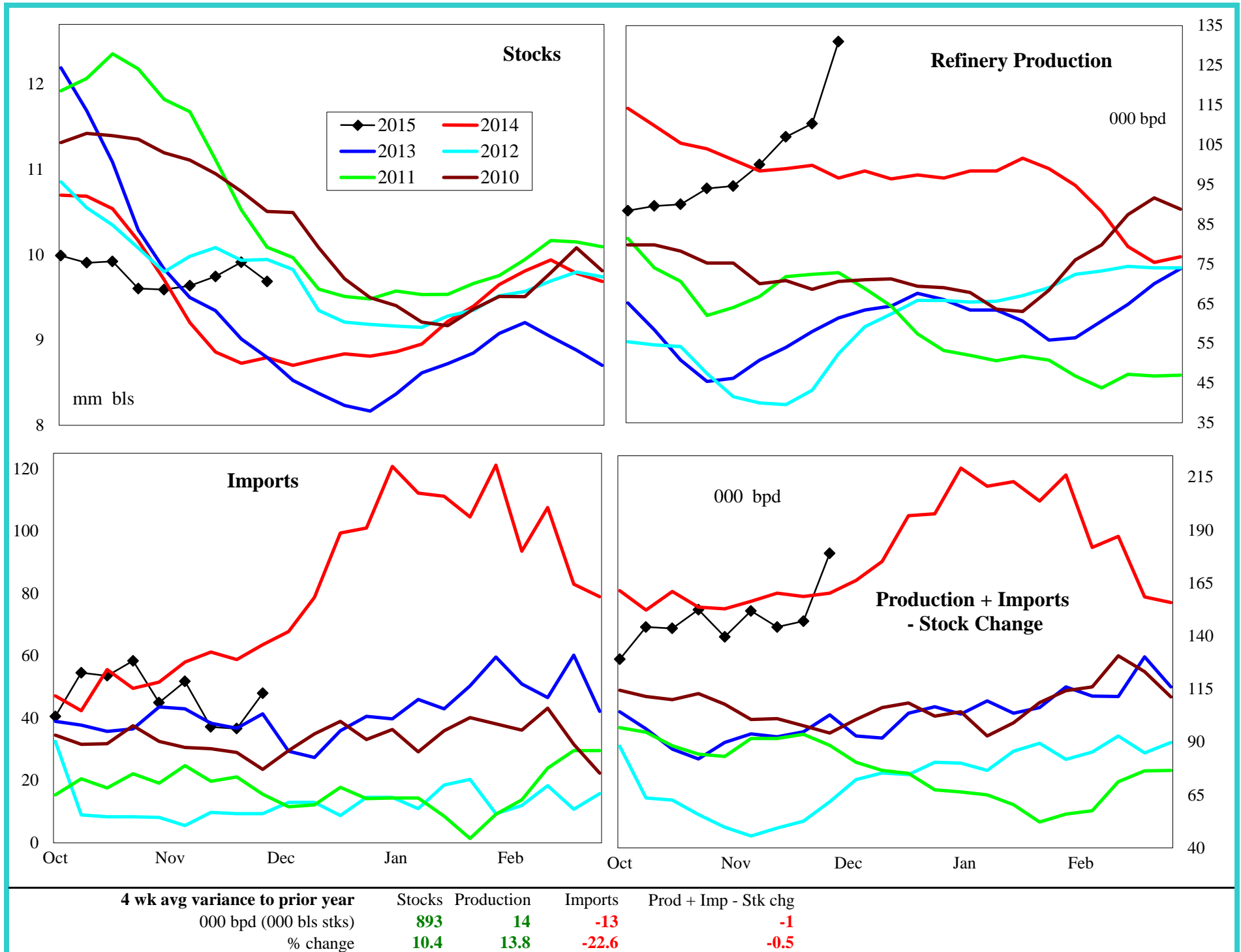
PADD 1 High Sulfur Distillate Supply



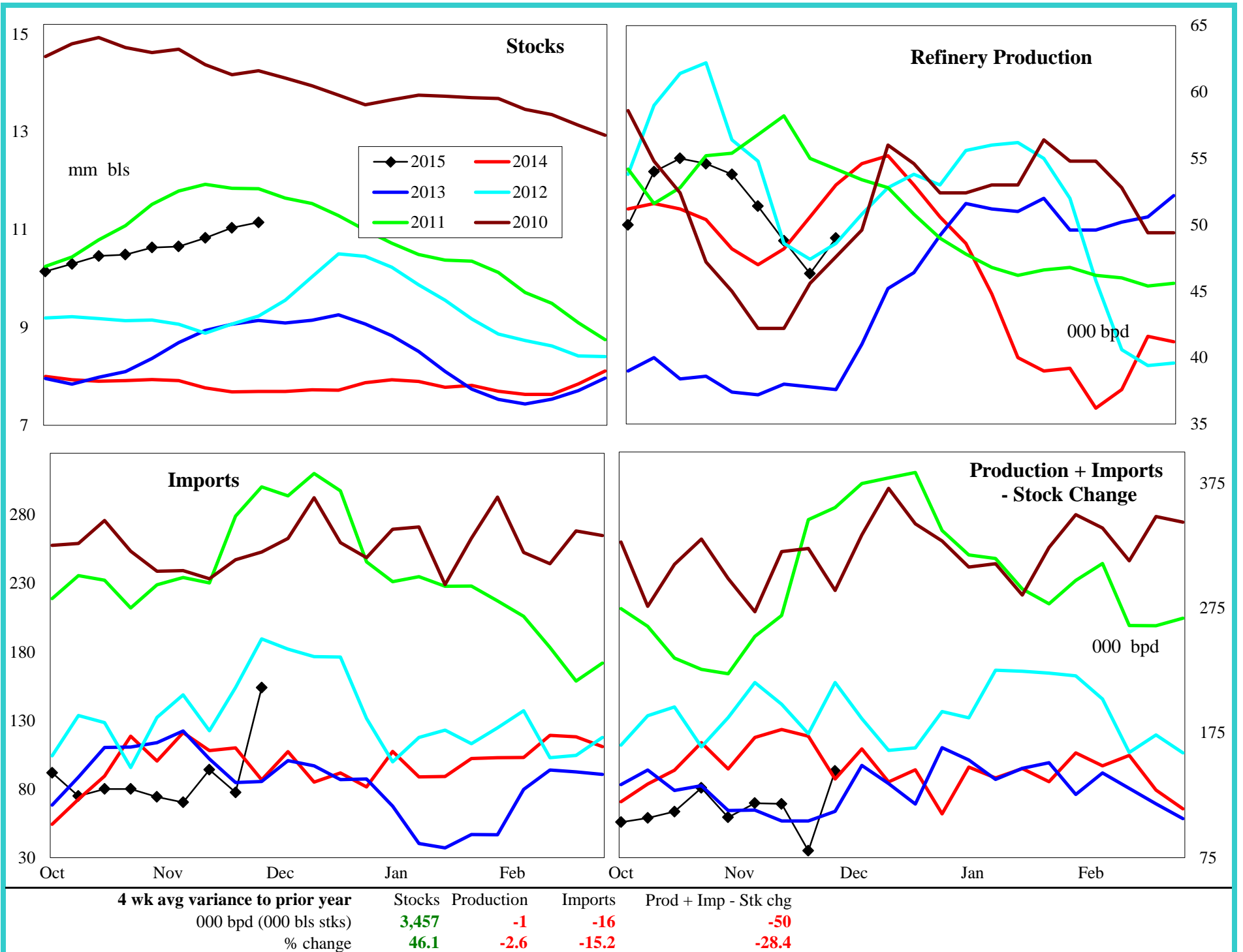
PADD 1 High Sulfur Distillate Stocks by Region



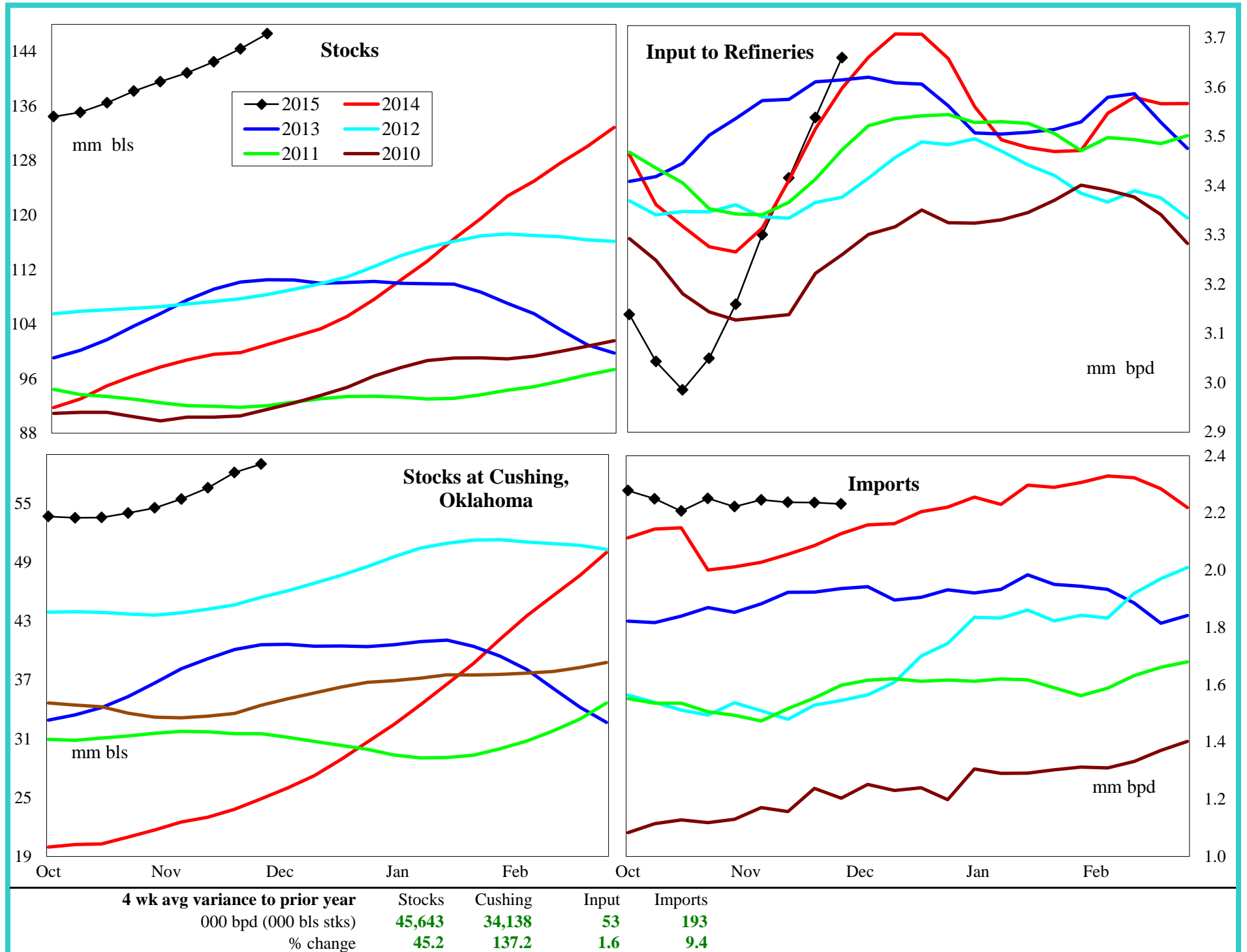
PADD 1 Jet Fuel Supply



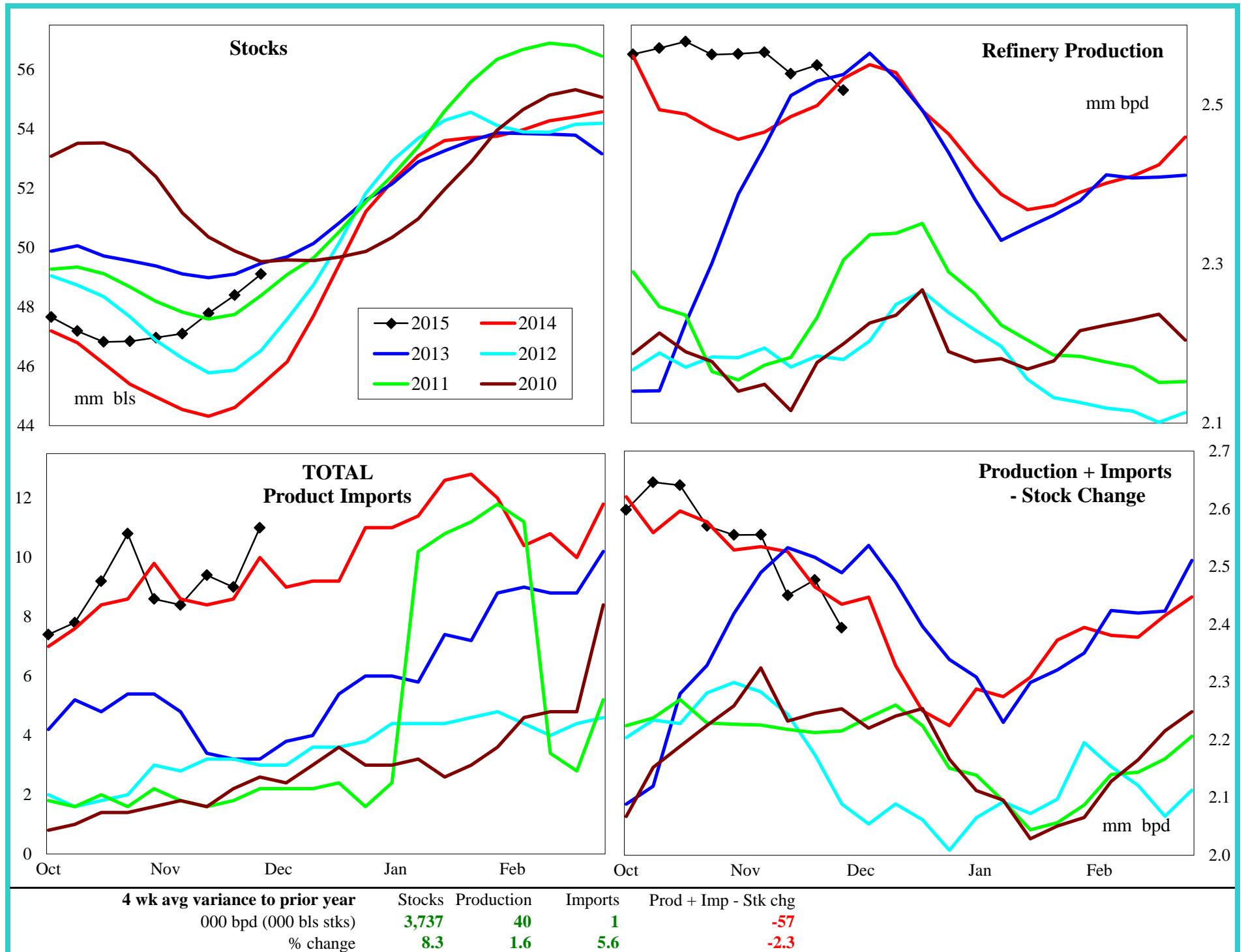
PADD 1 Residual Fuel Oil Supply



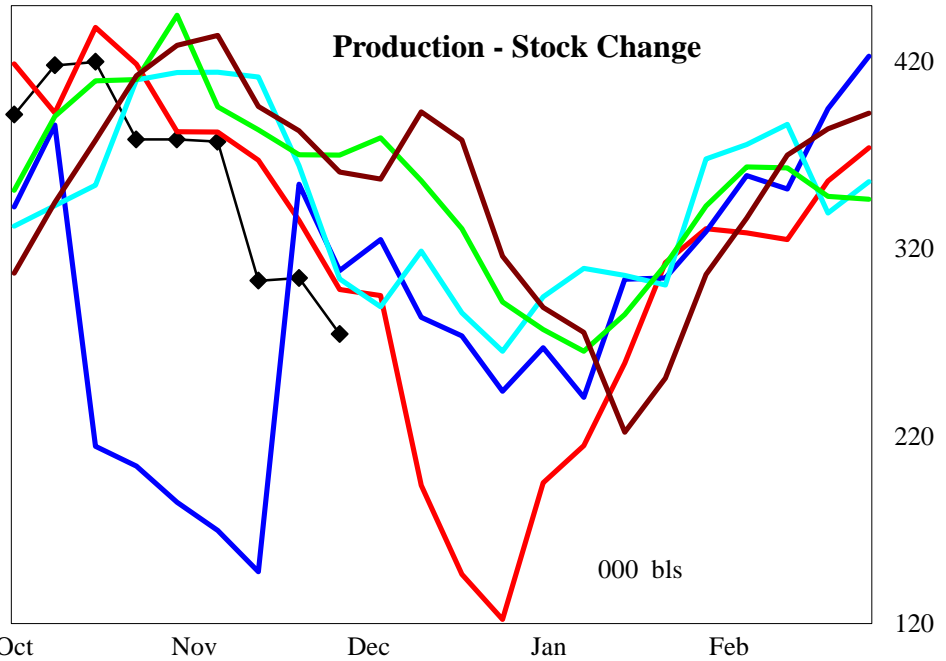
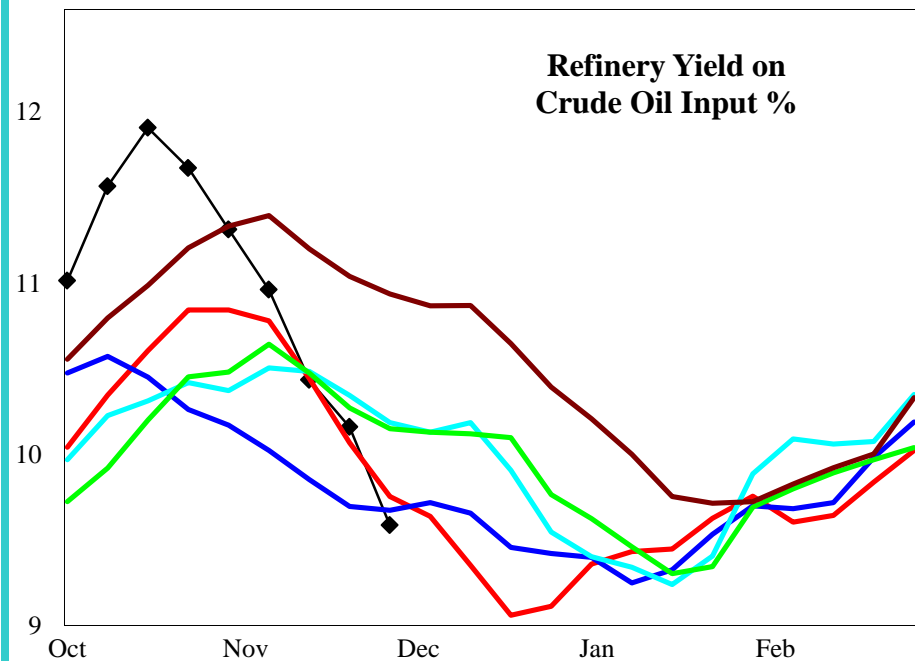
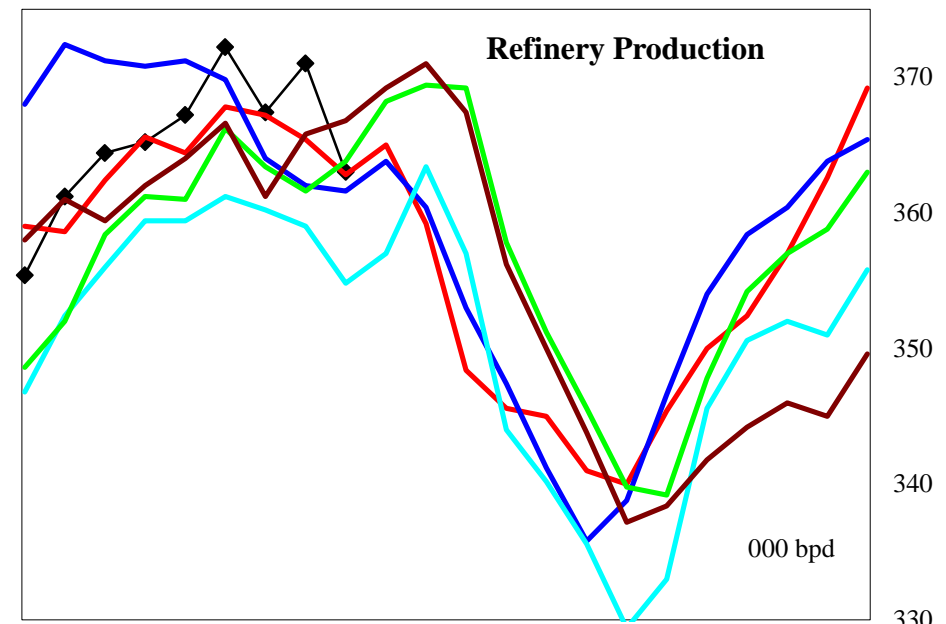
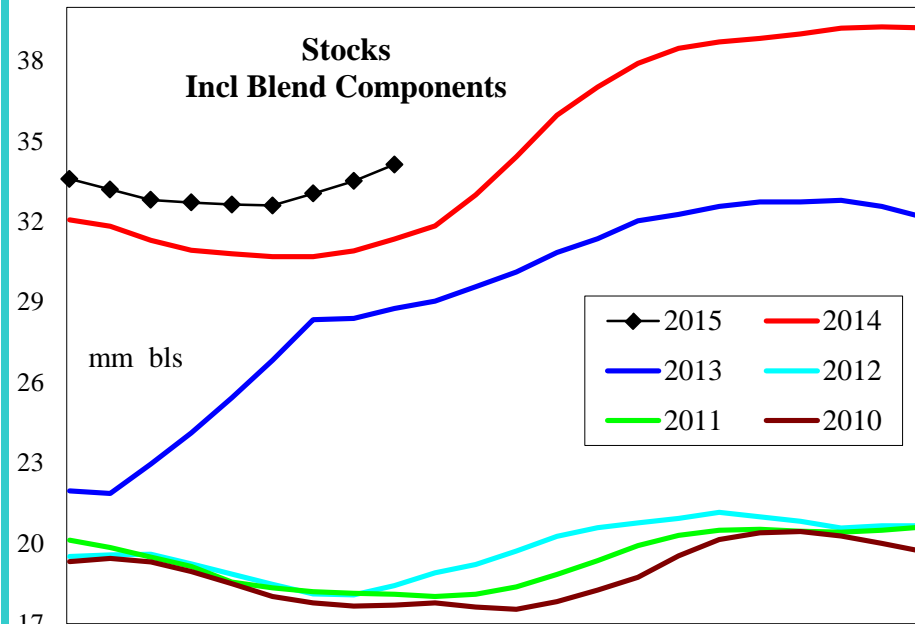
PADD 2 Crude Oil Supply and Refining



PADD 2 Gasoline Supply



PADD 2 Reformulated Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

Production

2,778

3

8.9

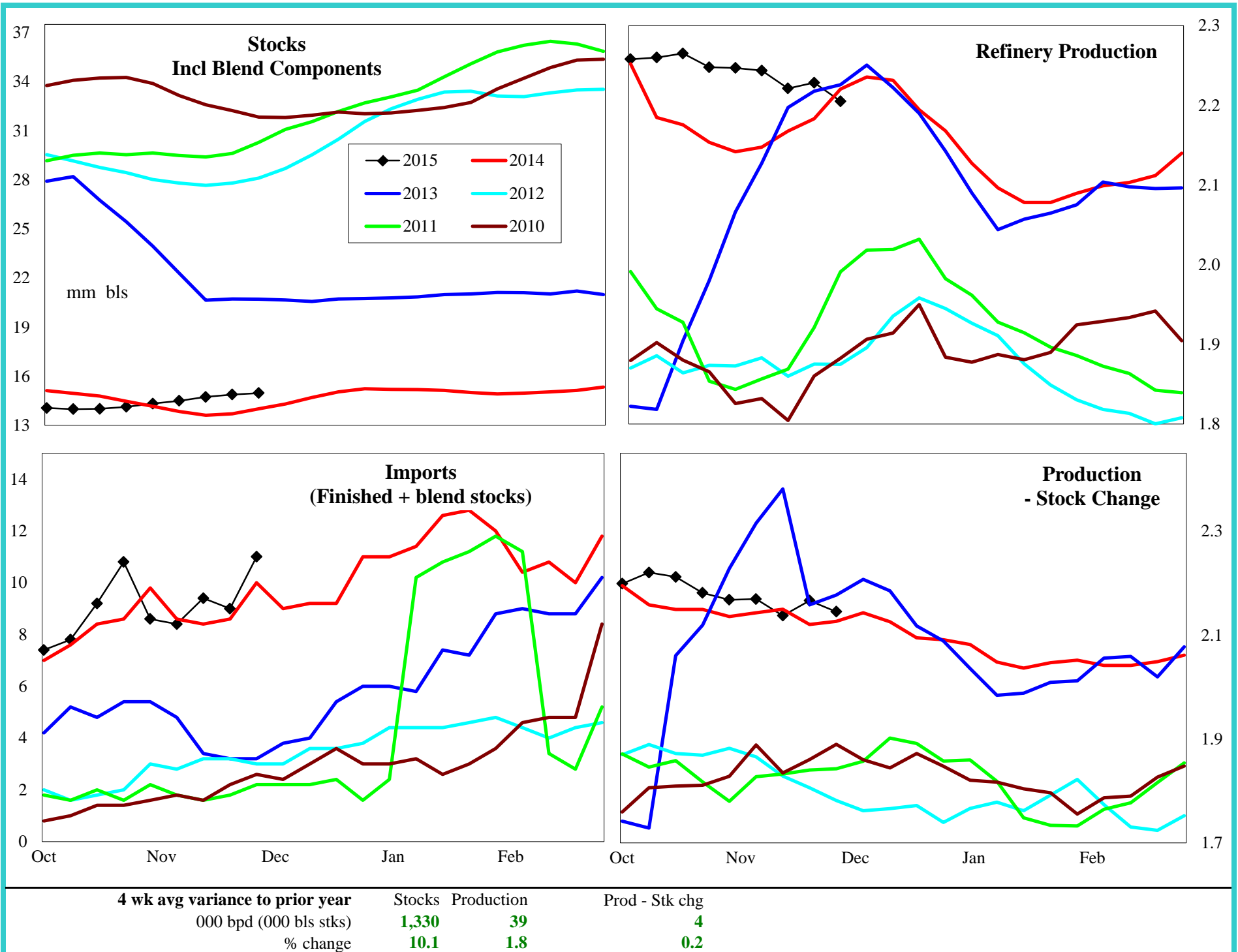
0.7

Prod - Stk chg

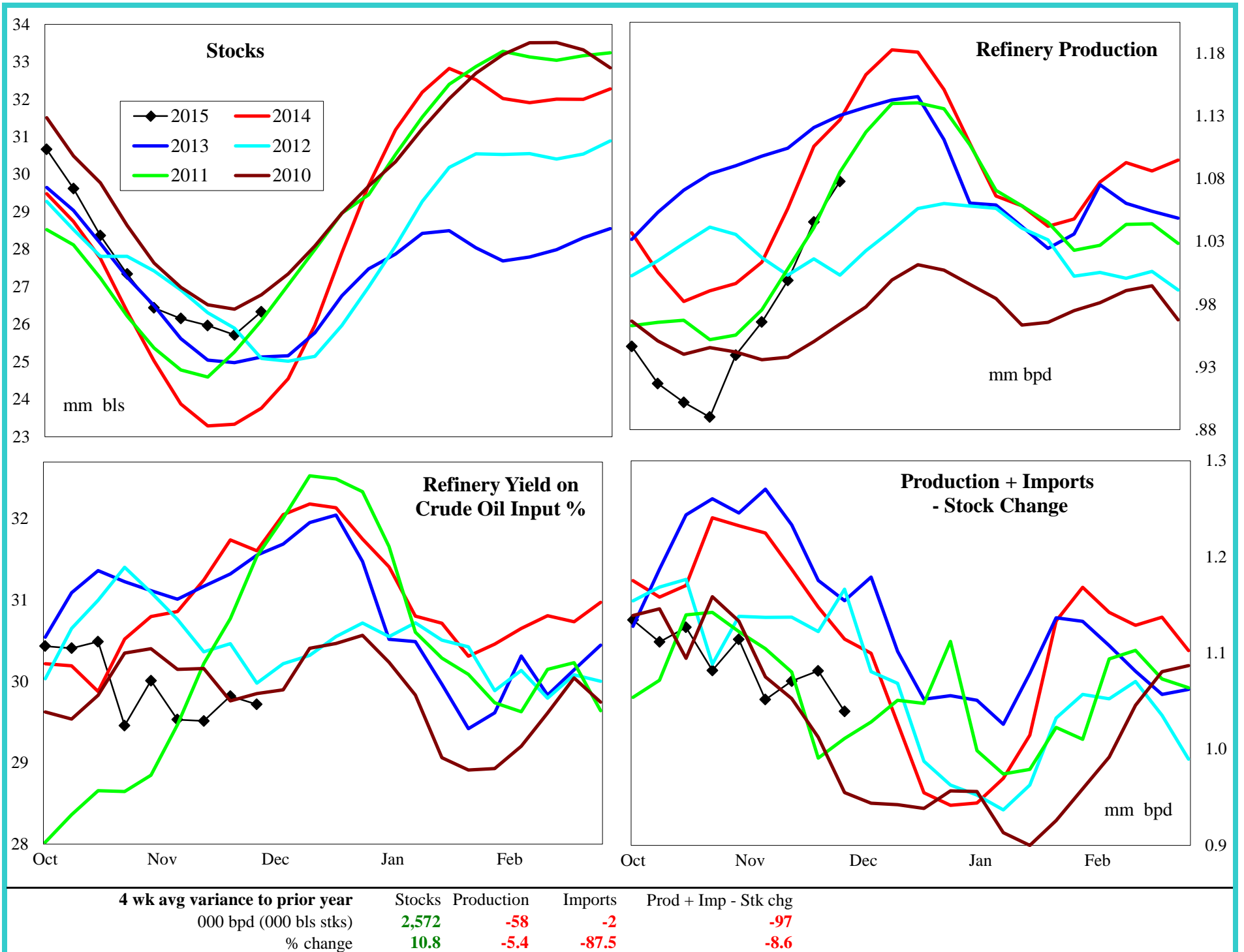
-31

-9.0

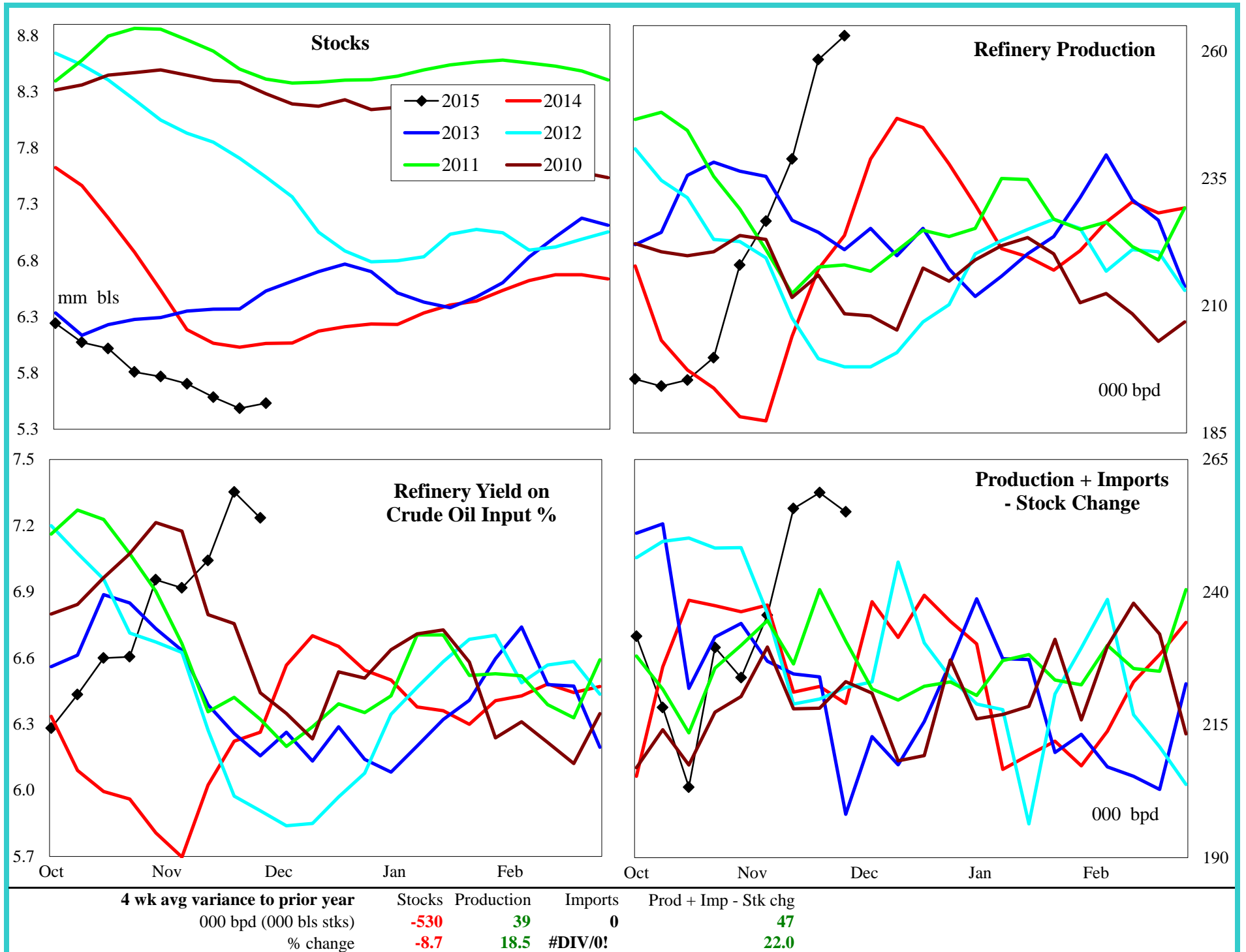
PADD 2 Conventional Gasoline Supply



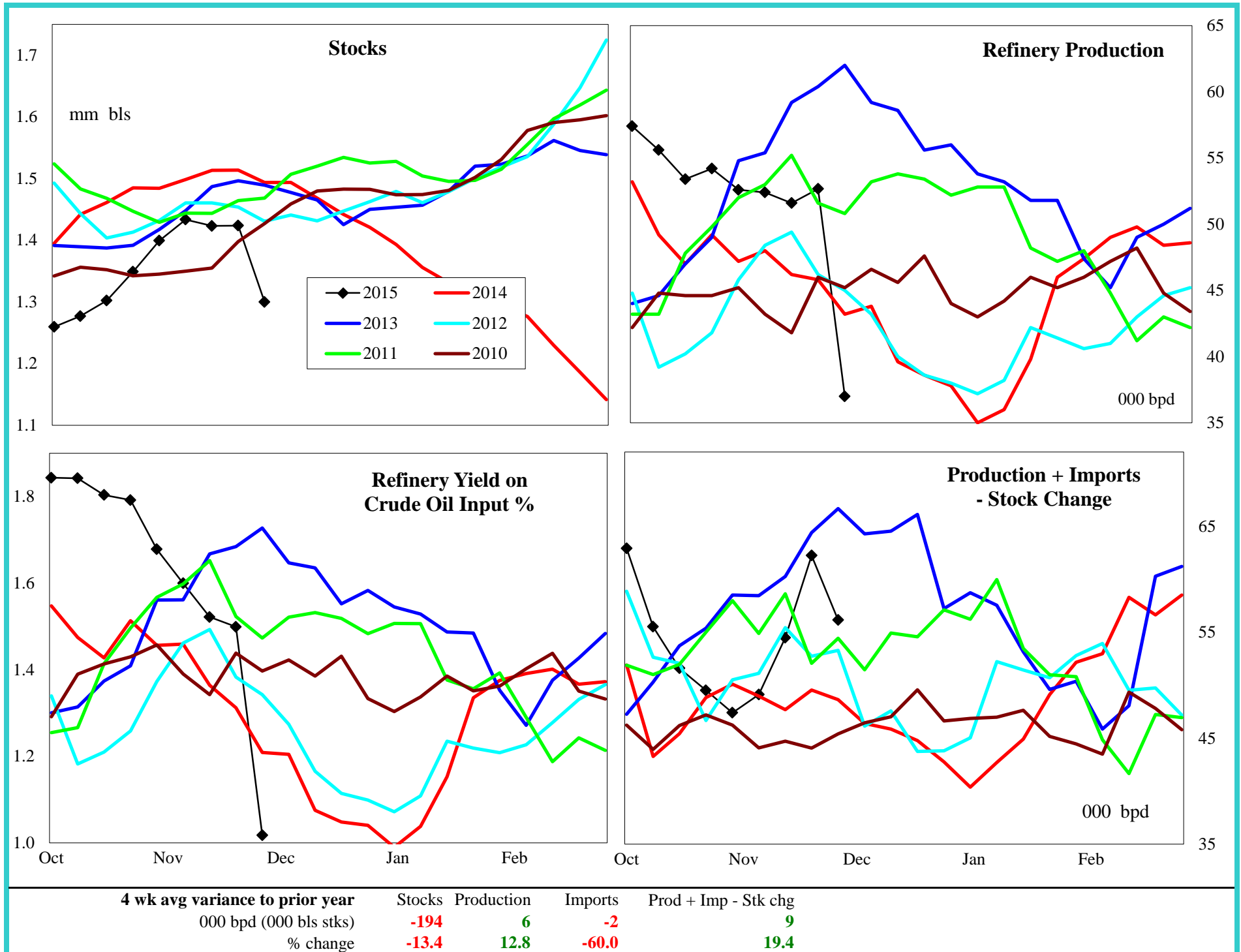
PADD 2 Distillate Supply



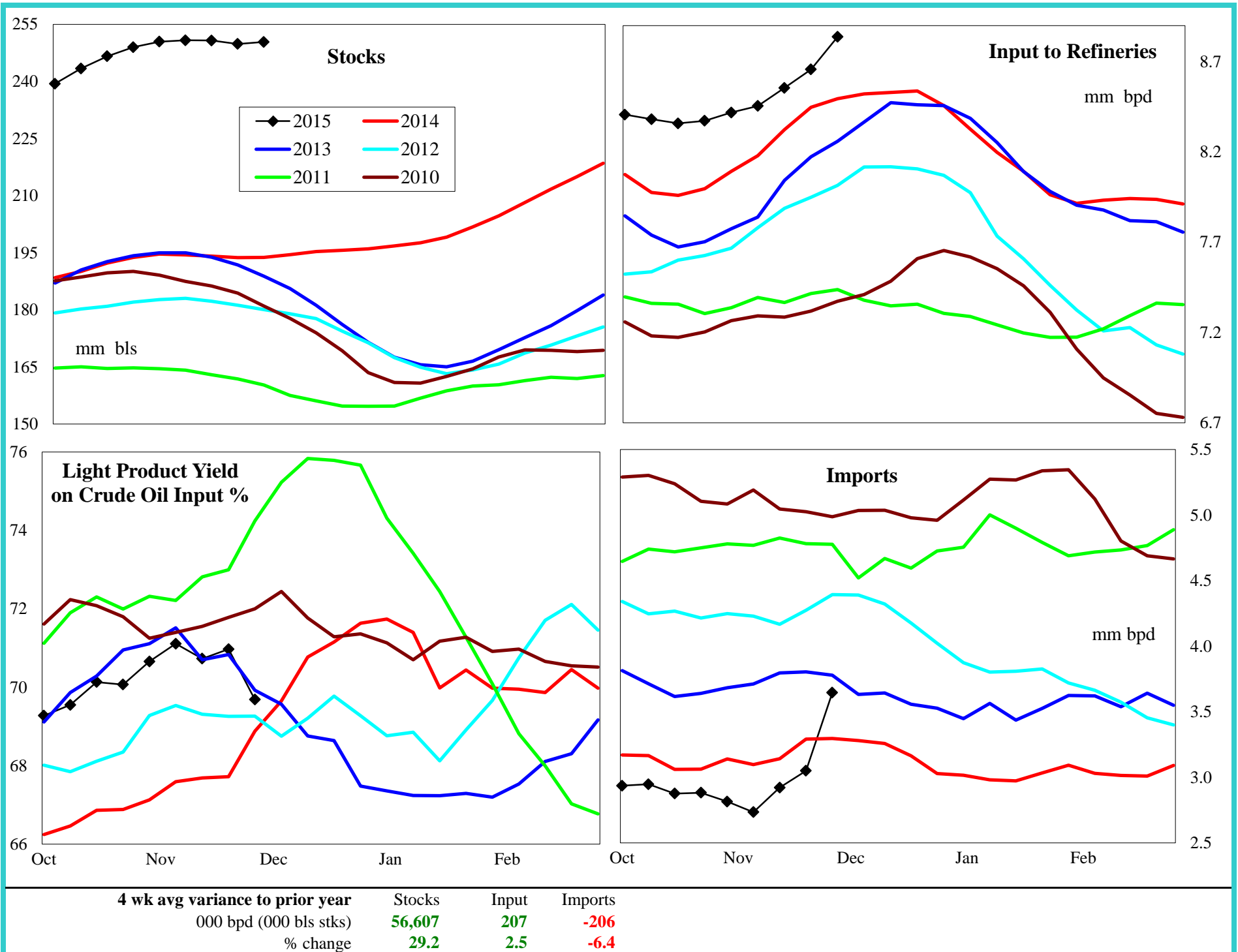
PADD 2 Jet Fuel Supply



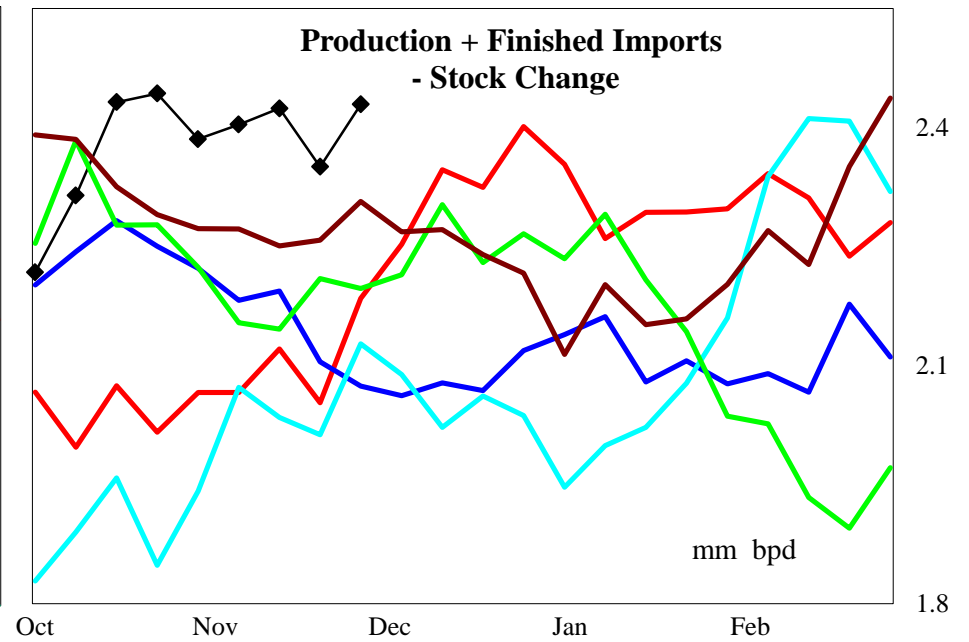
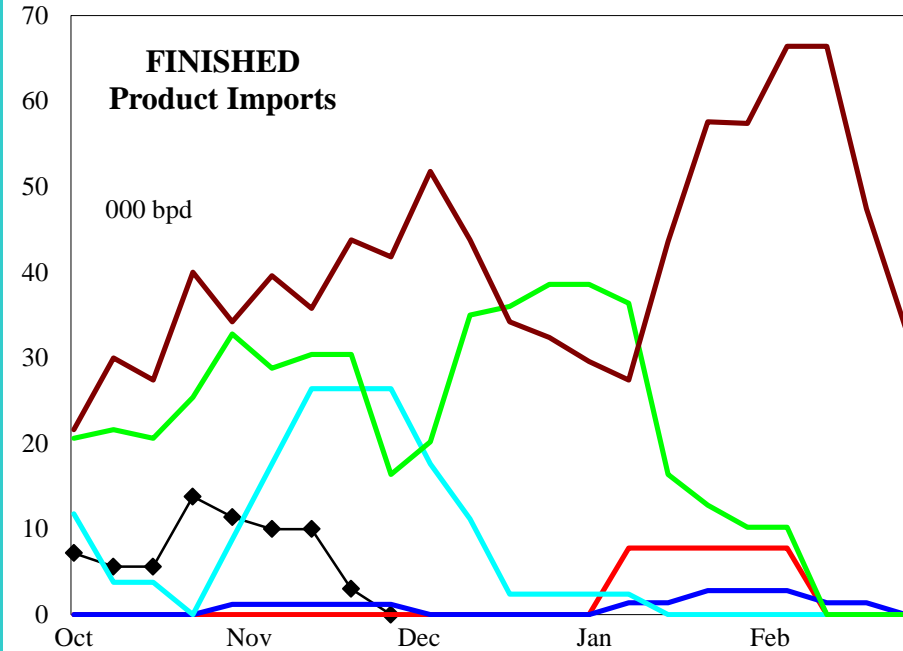
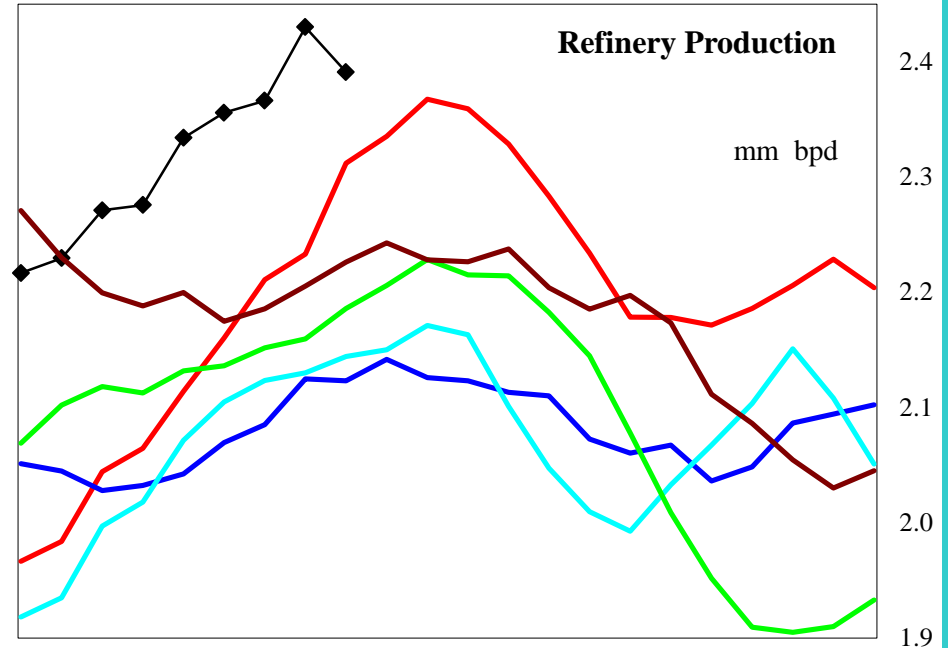
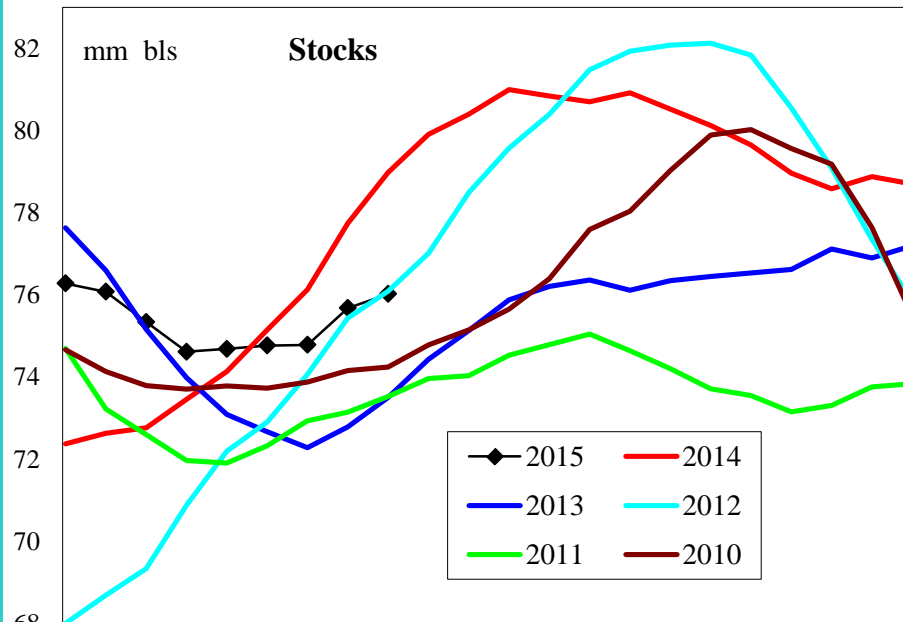
PADD 2 Residual Fuel Oil Supply



PADD 3 Crude Oil Supply and Refining



PADD 3 Gasoline Supply



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

-2,501

-3.2

Production

183

8.2

Fin Impt

13

#DIV/0!

Blend Impt

1

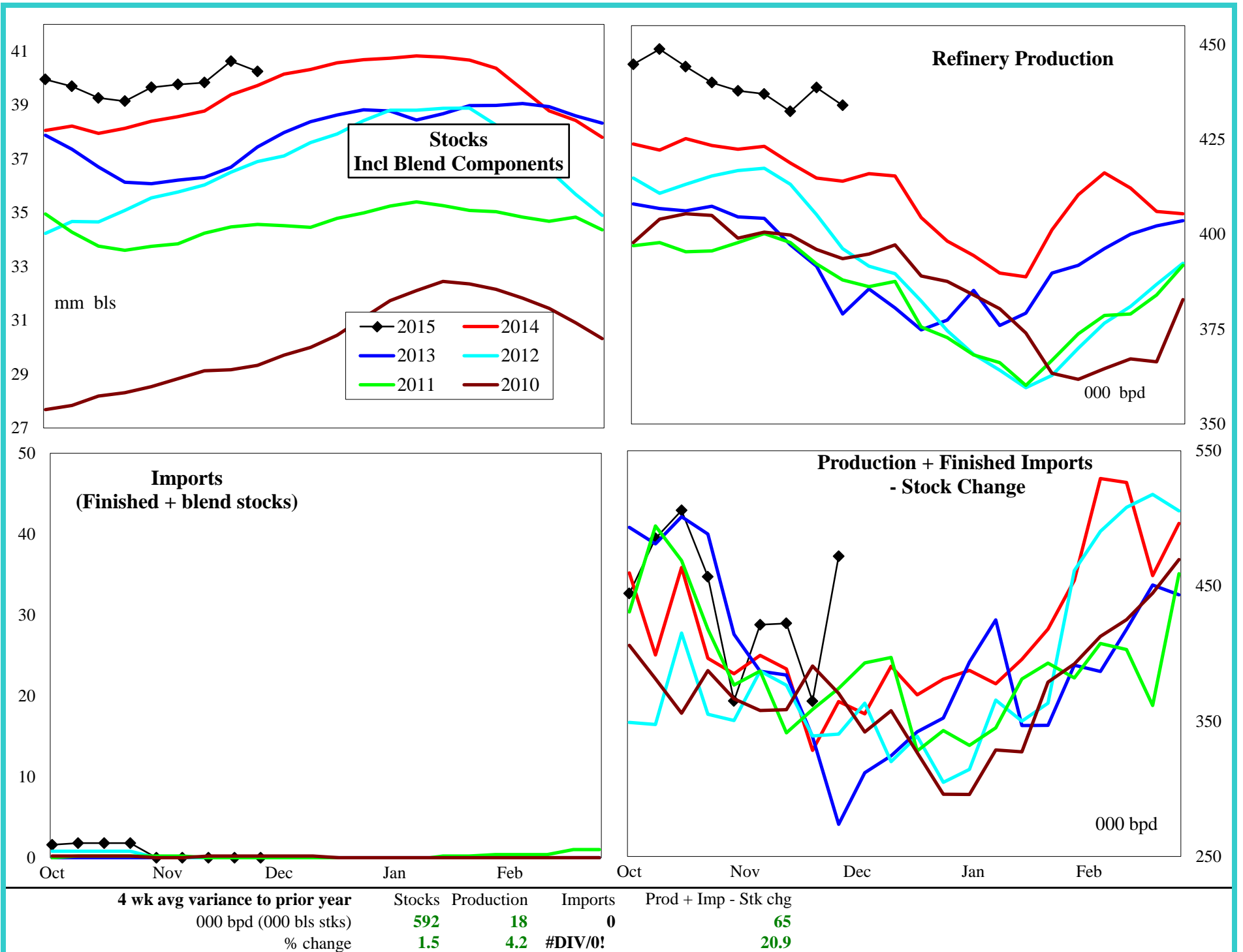
50.0

Prod + Imp - Stk chg

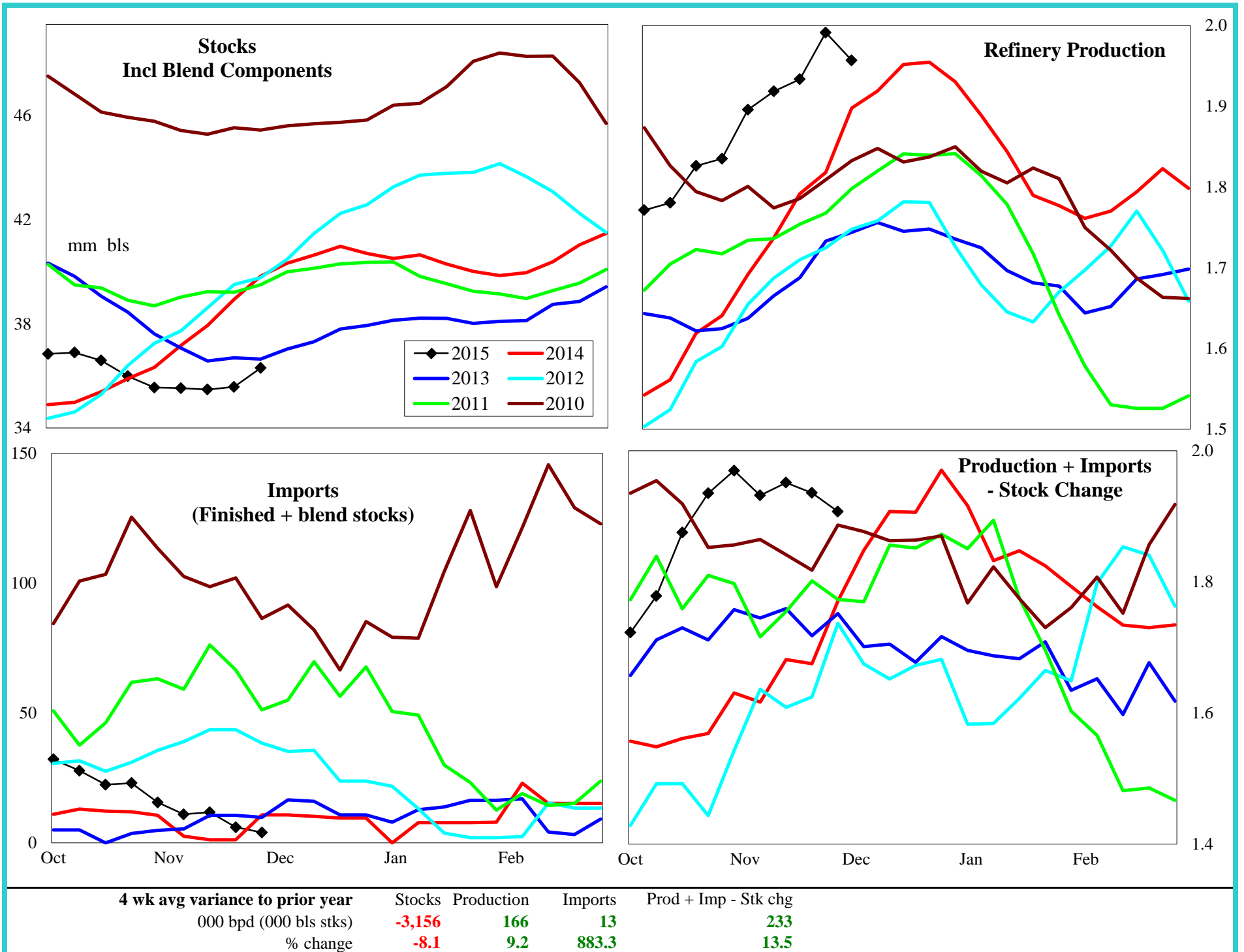
297

14.6

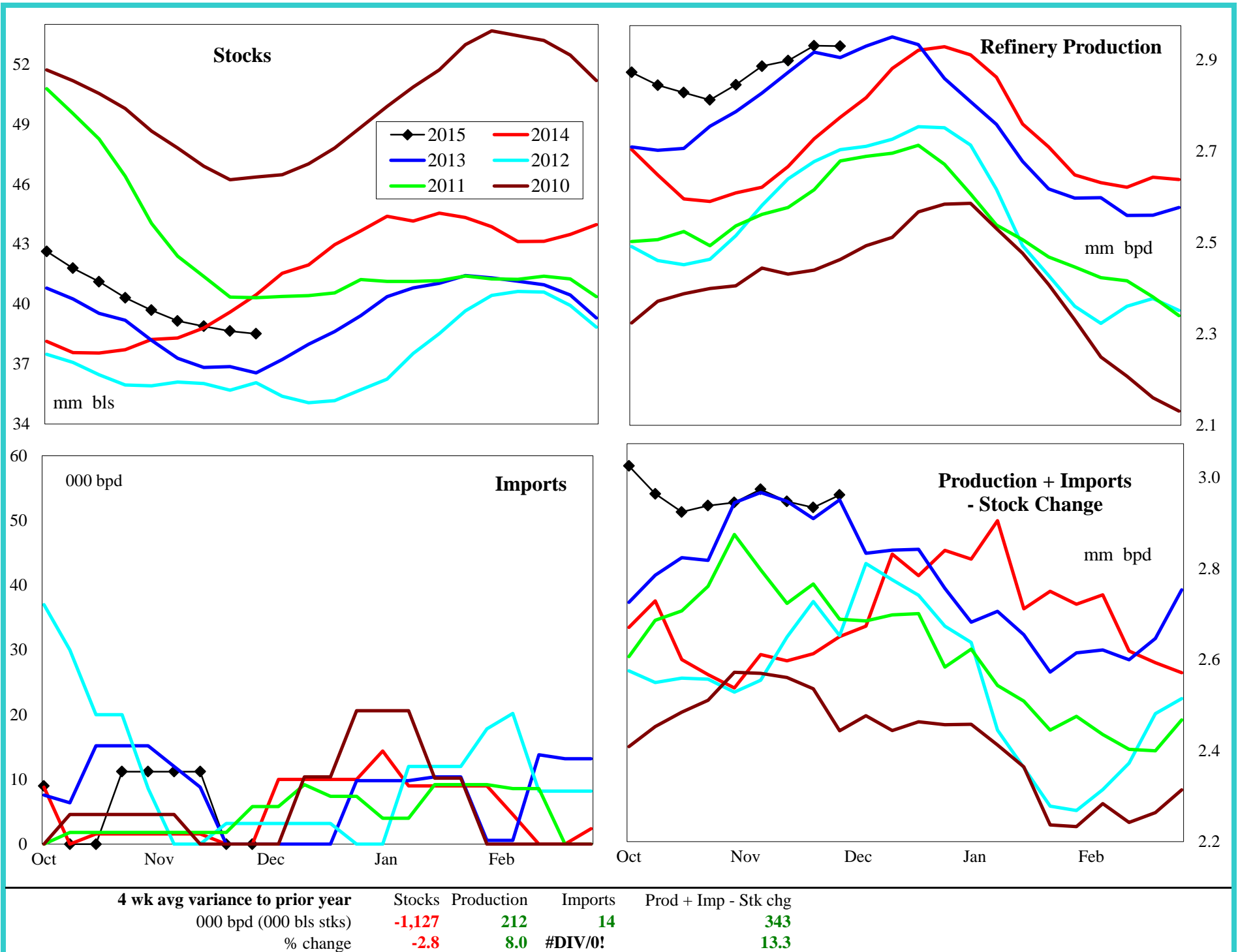
PADD 3 Reformulated Gasoline Supply



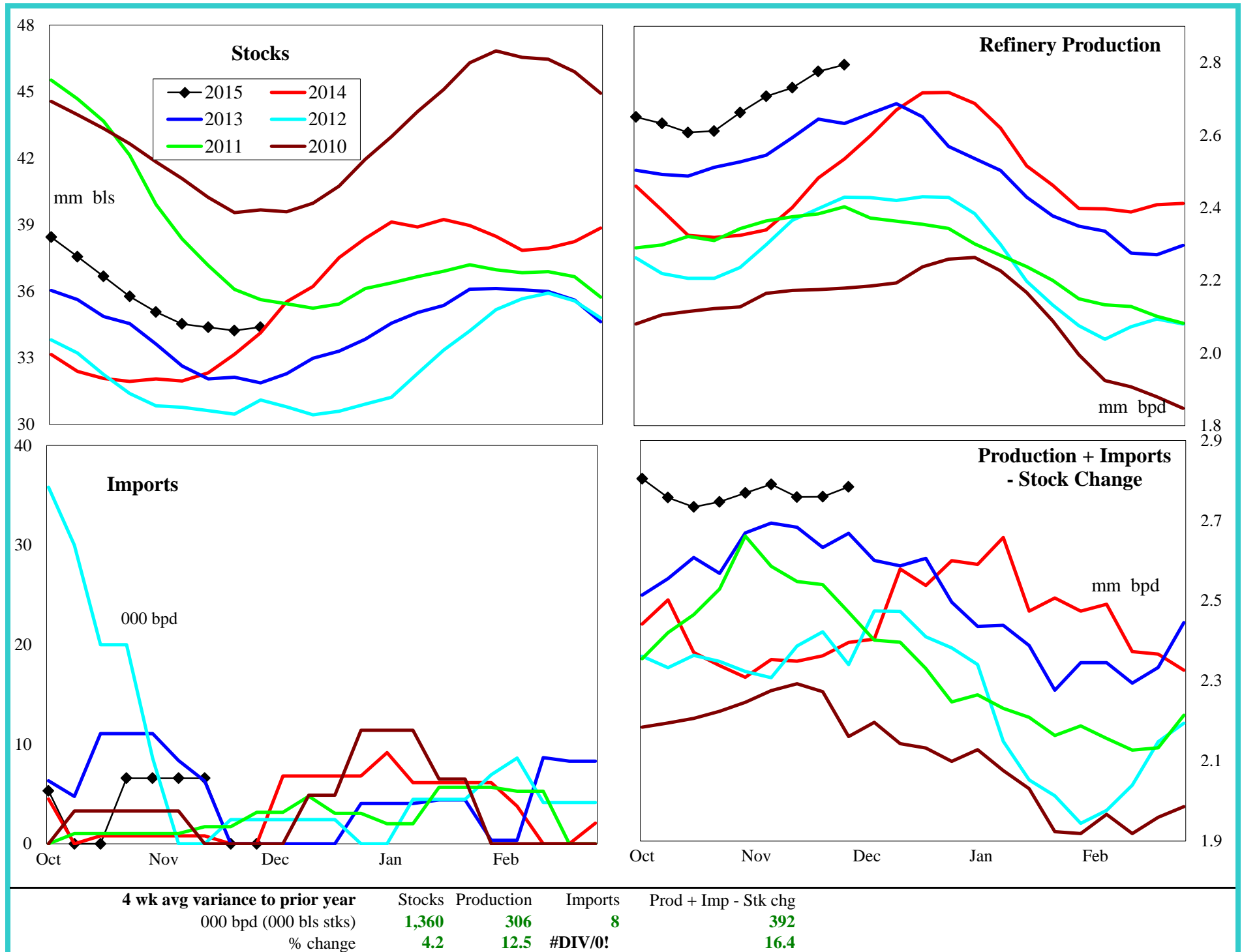
PADD 3 Conventional Gasoline Supply



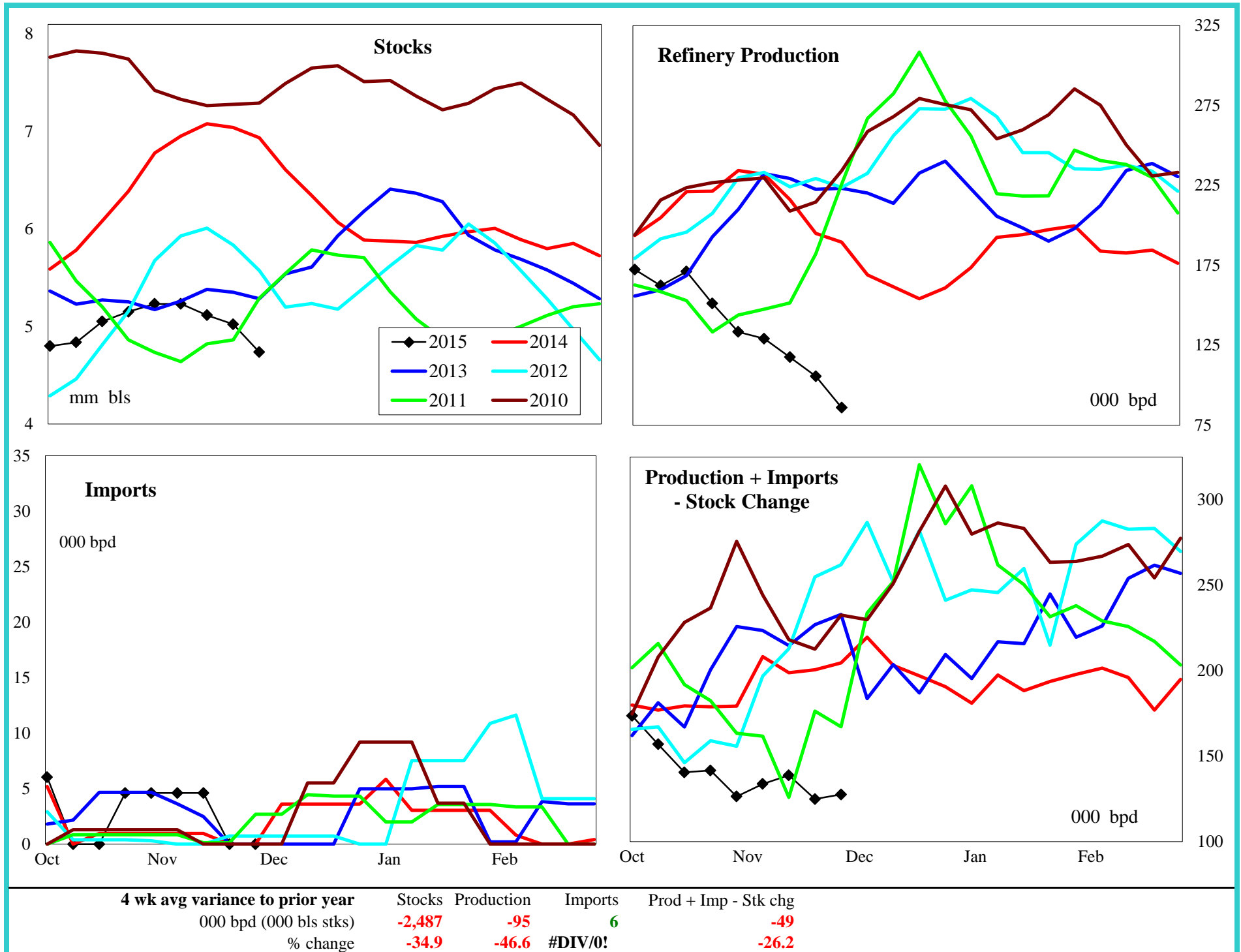
PADD 3 Distillate Supply



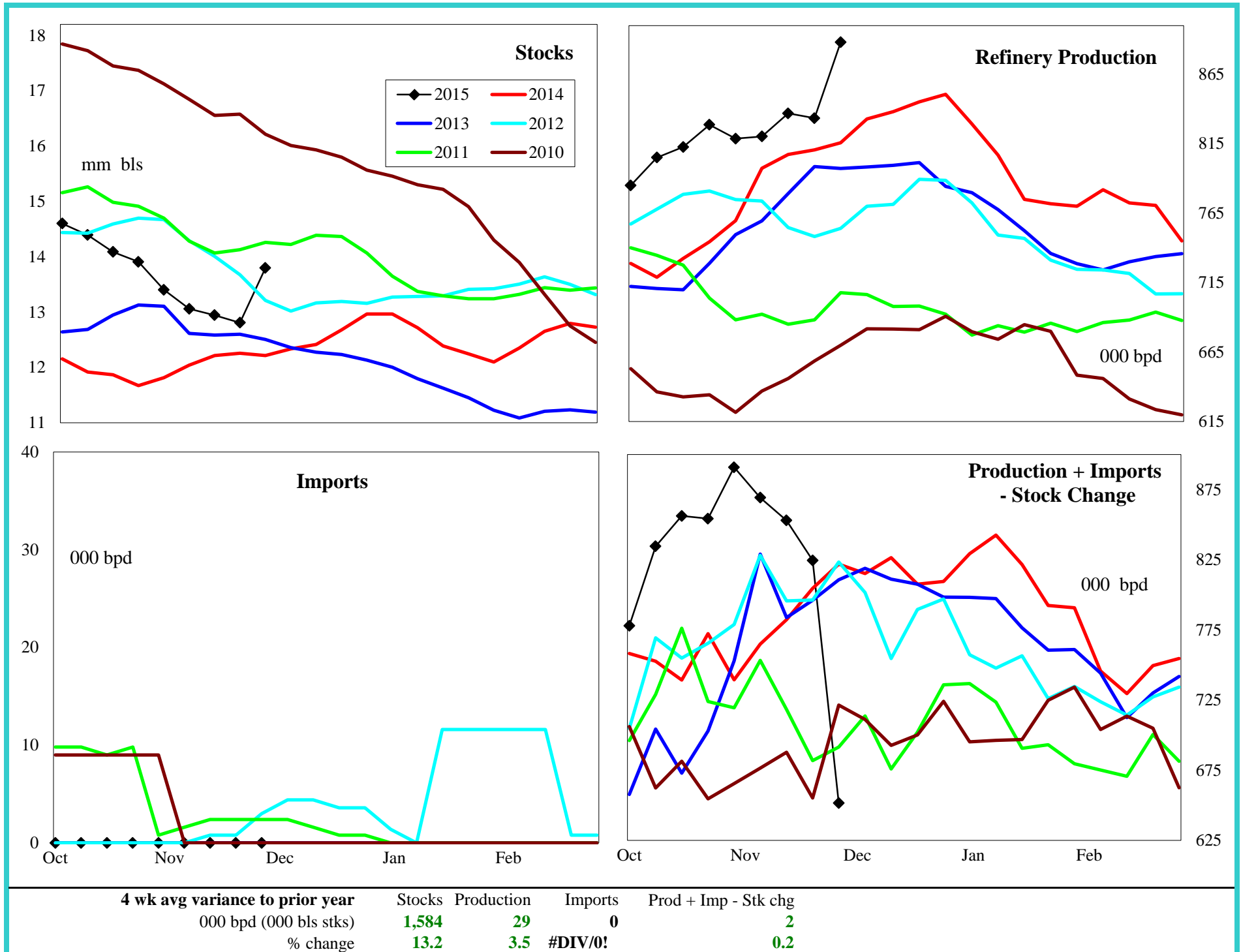
PADD 3 Low Sulfur Distillate Supply



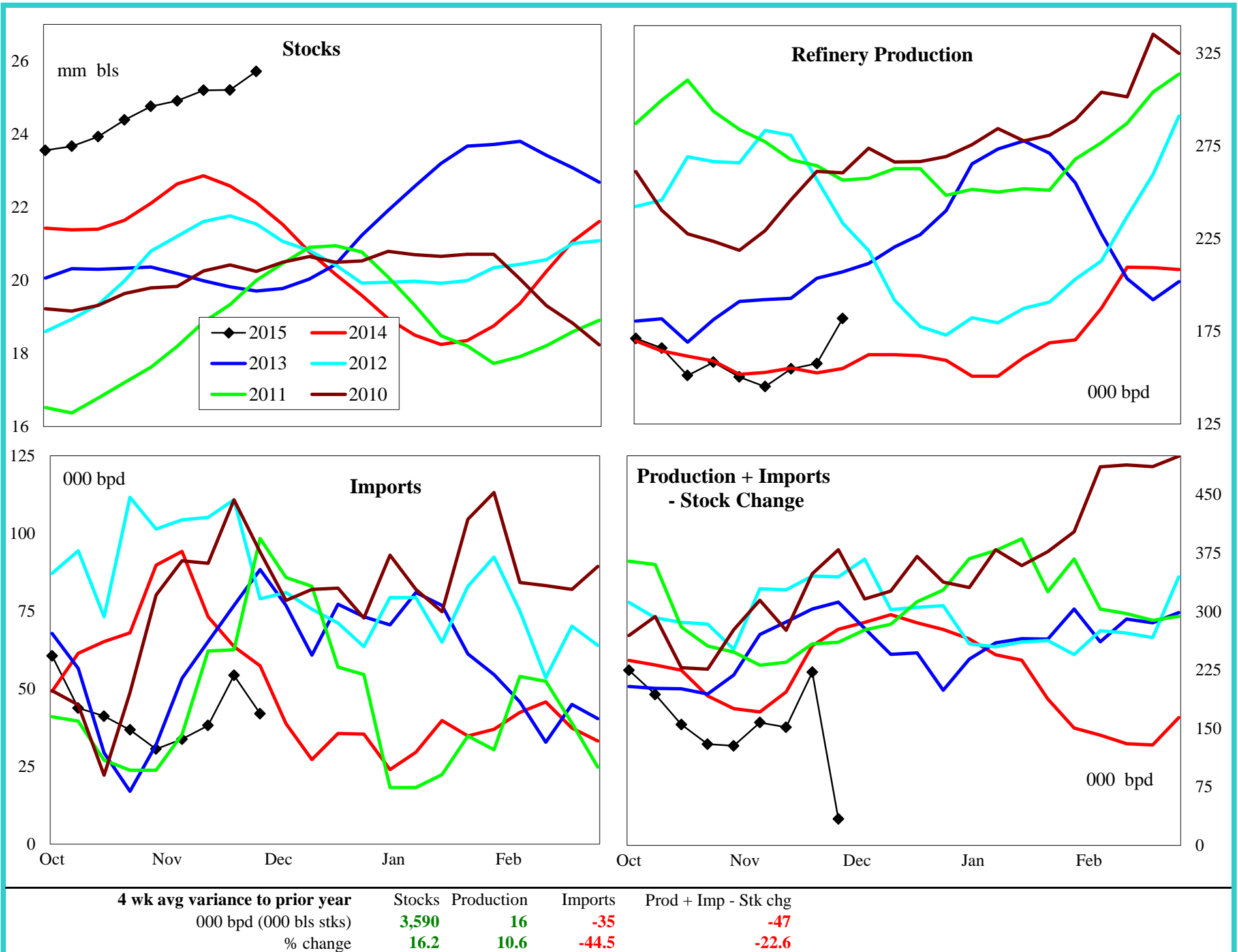
PADD 3 High Sulfur Distillate Supply



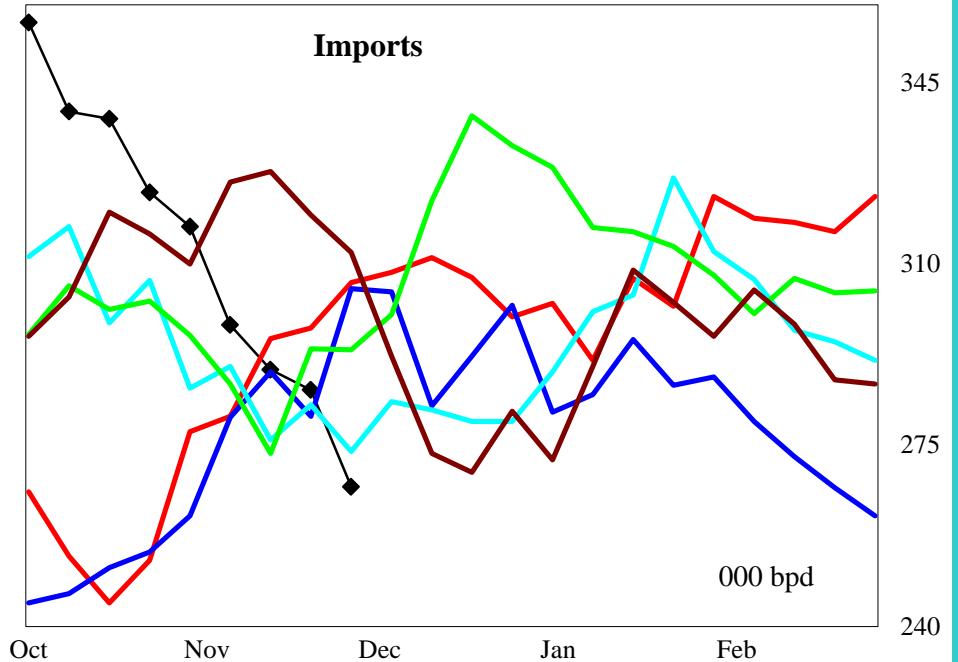
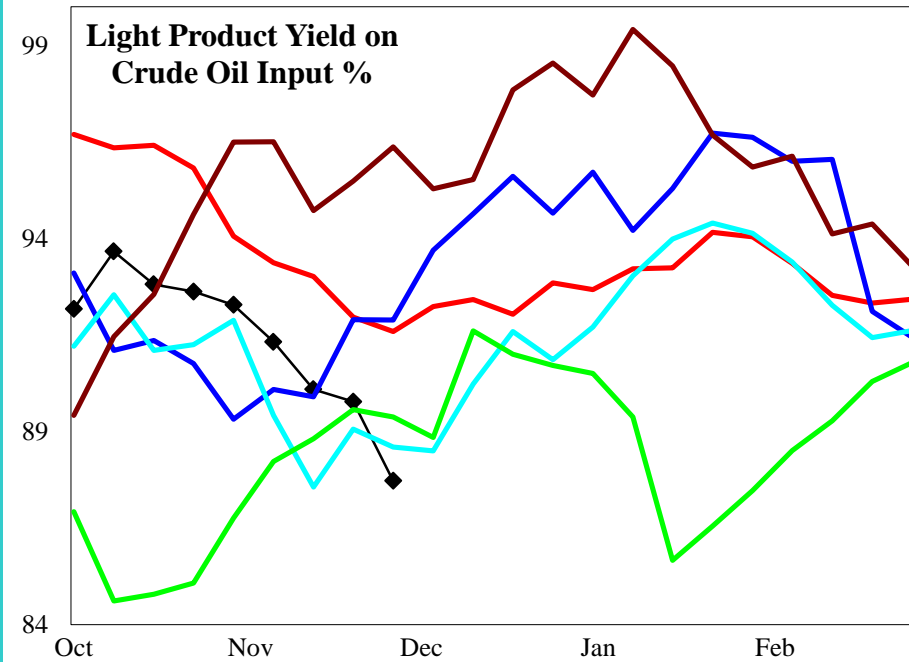
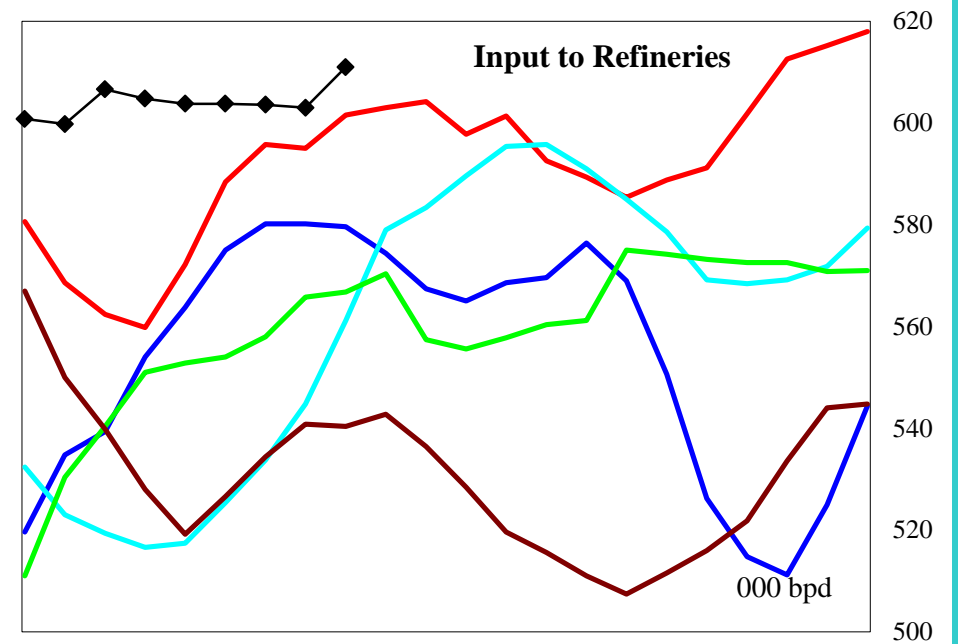
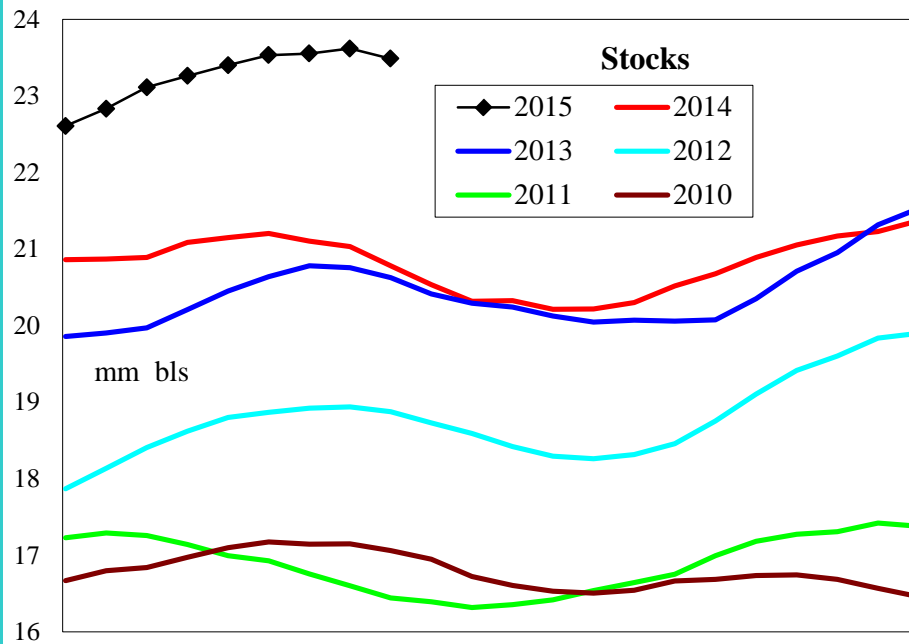
PADD 3 Jet Fuel Supply



PADD 3 Residual Fuel Oil Supply



PADD 4 Crude Oil Supply and Refining



4 wk avg variance to prior year

000 bpd (000 bls stks)

% change

Stocks

2,706

13.3

Input

2

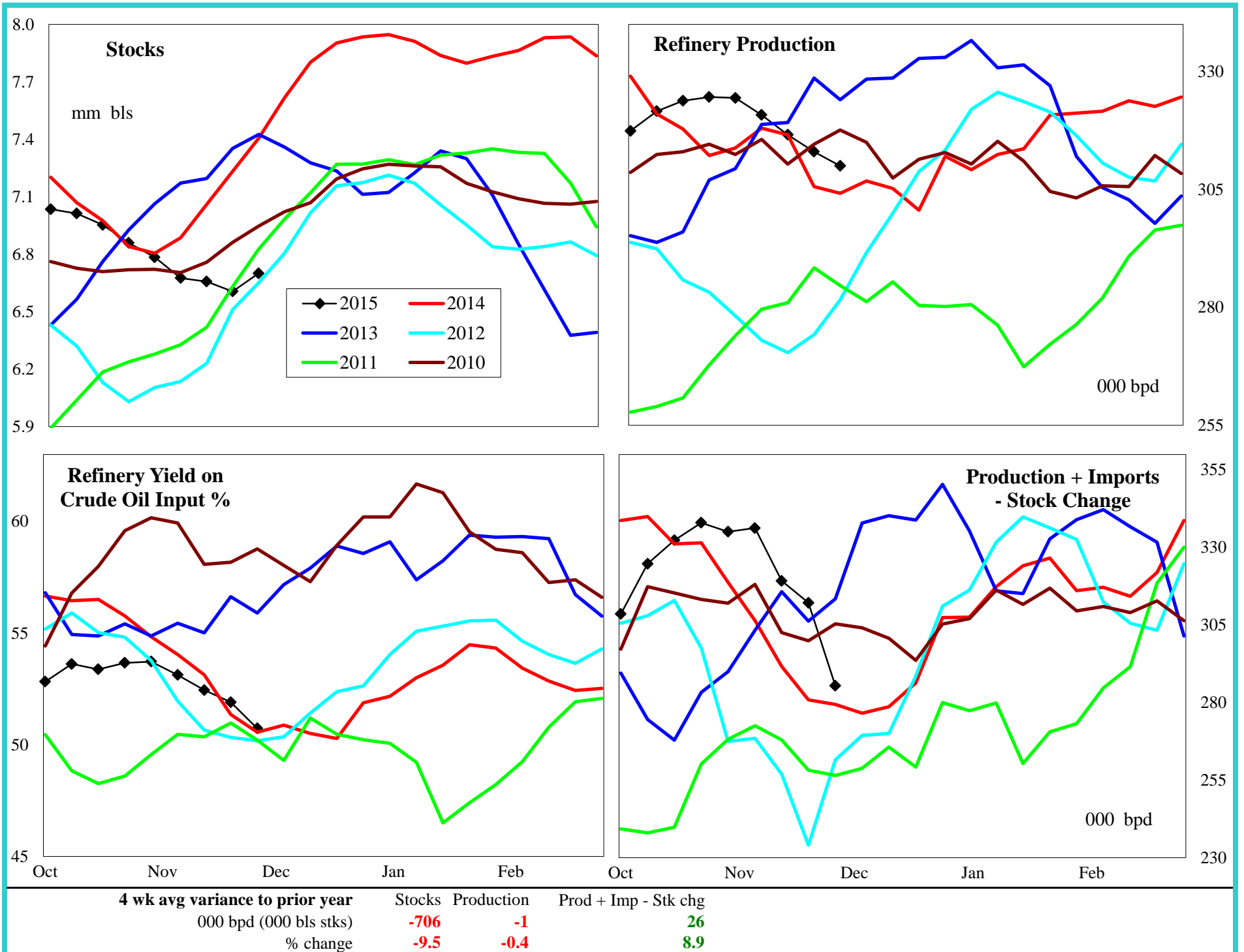
0.3

Imports

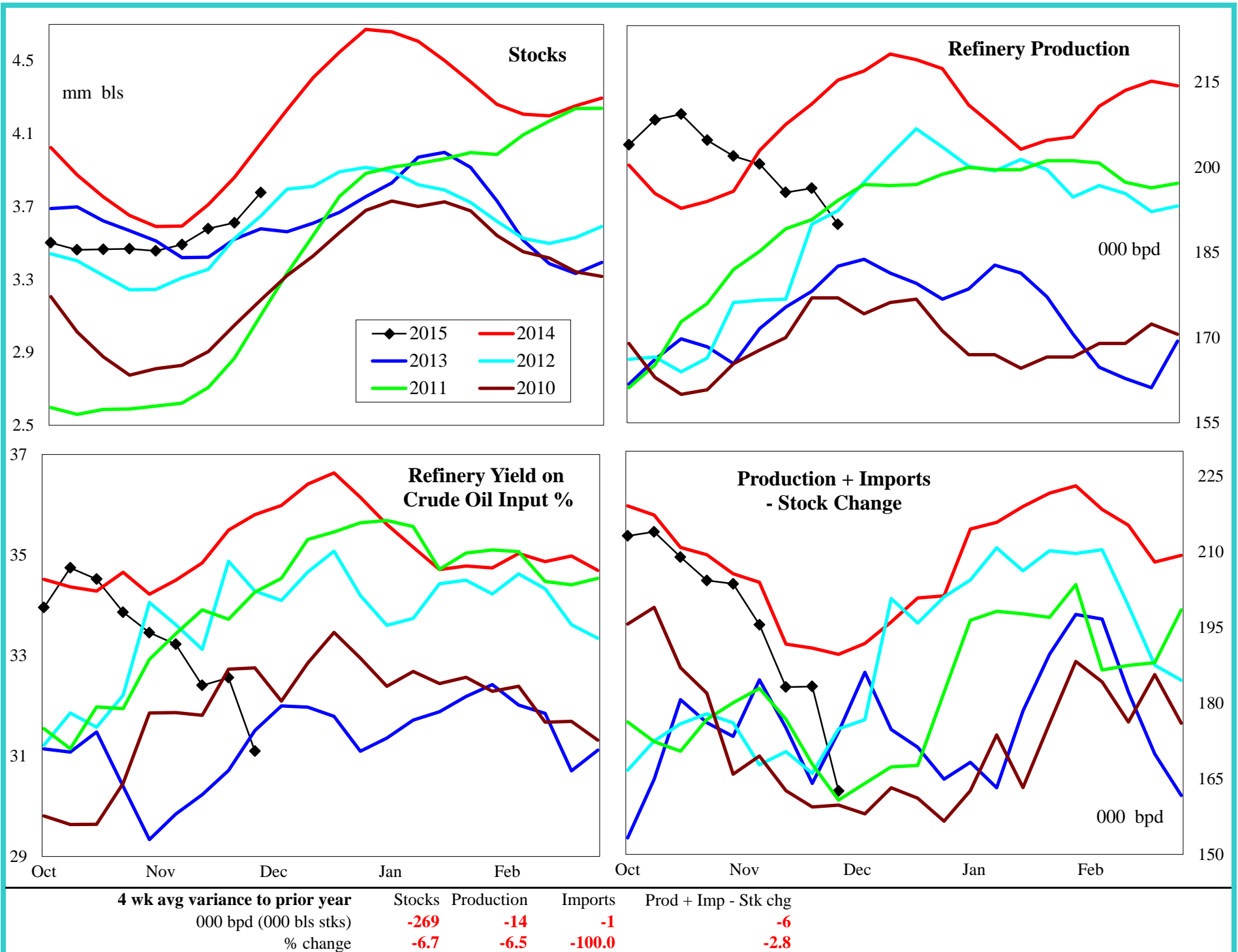
-24

-8.1

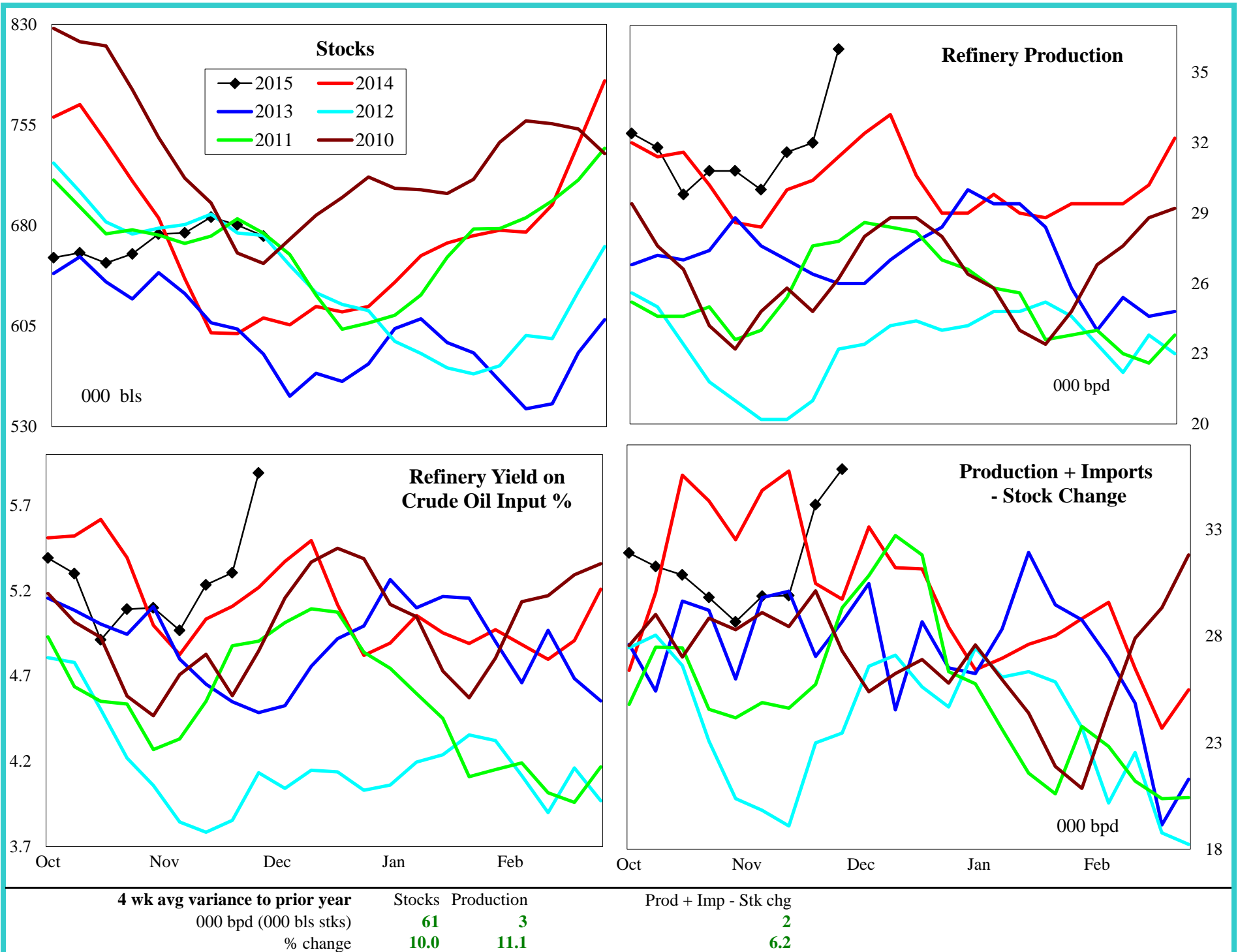
PADD 4 Gasoline Supply



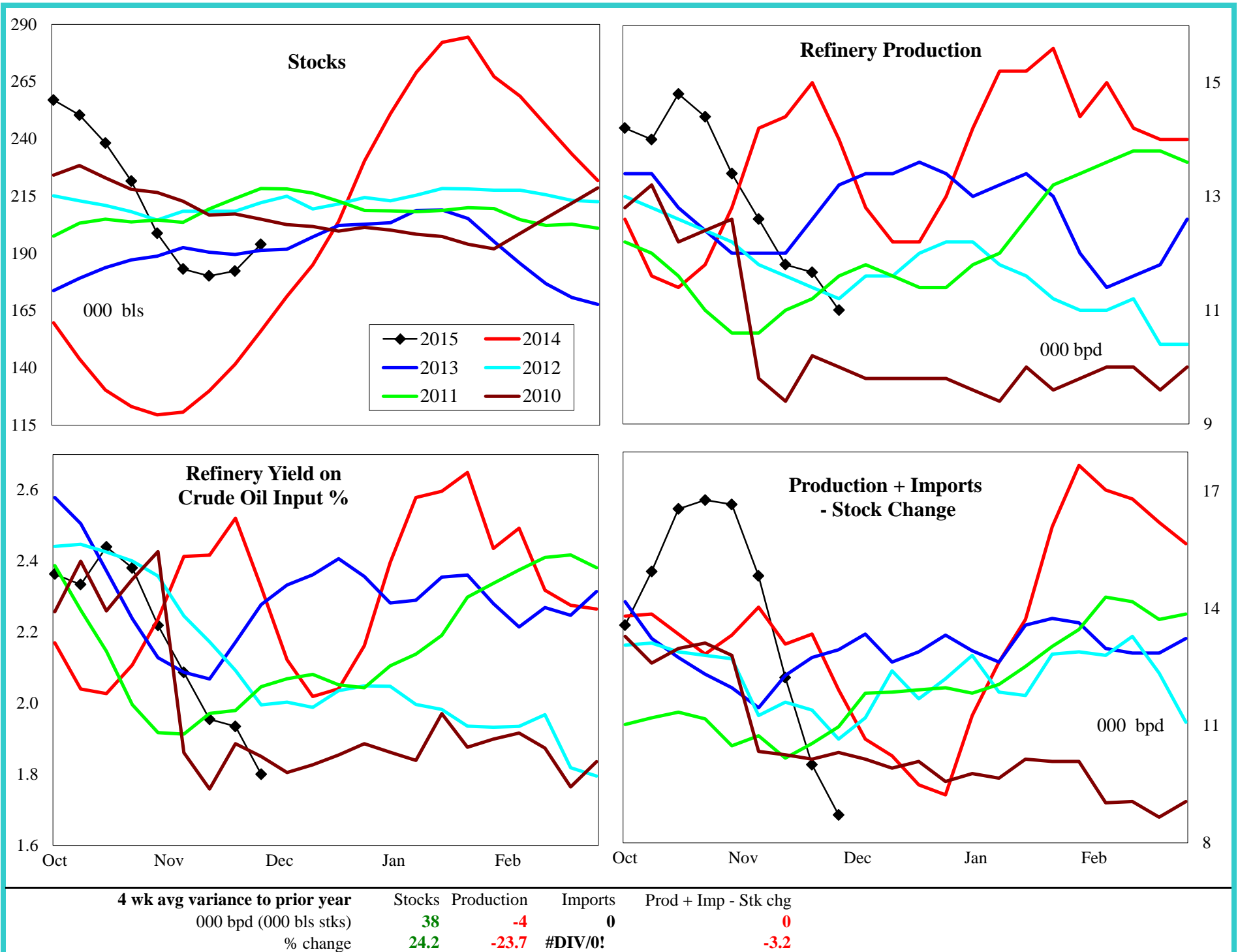
PADD 4 Distillate Supply



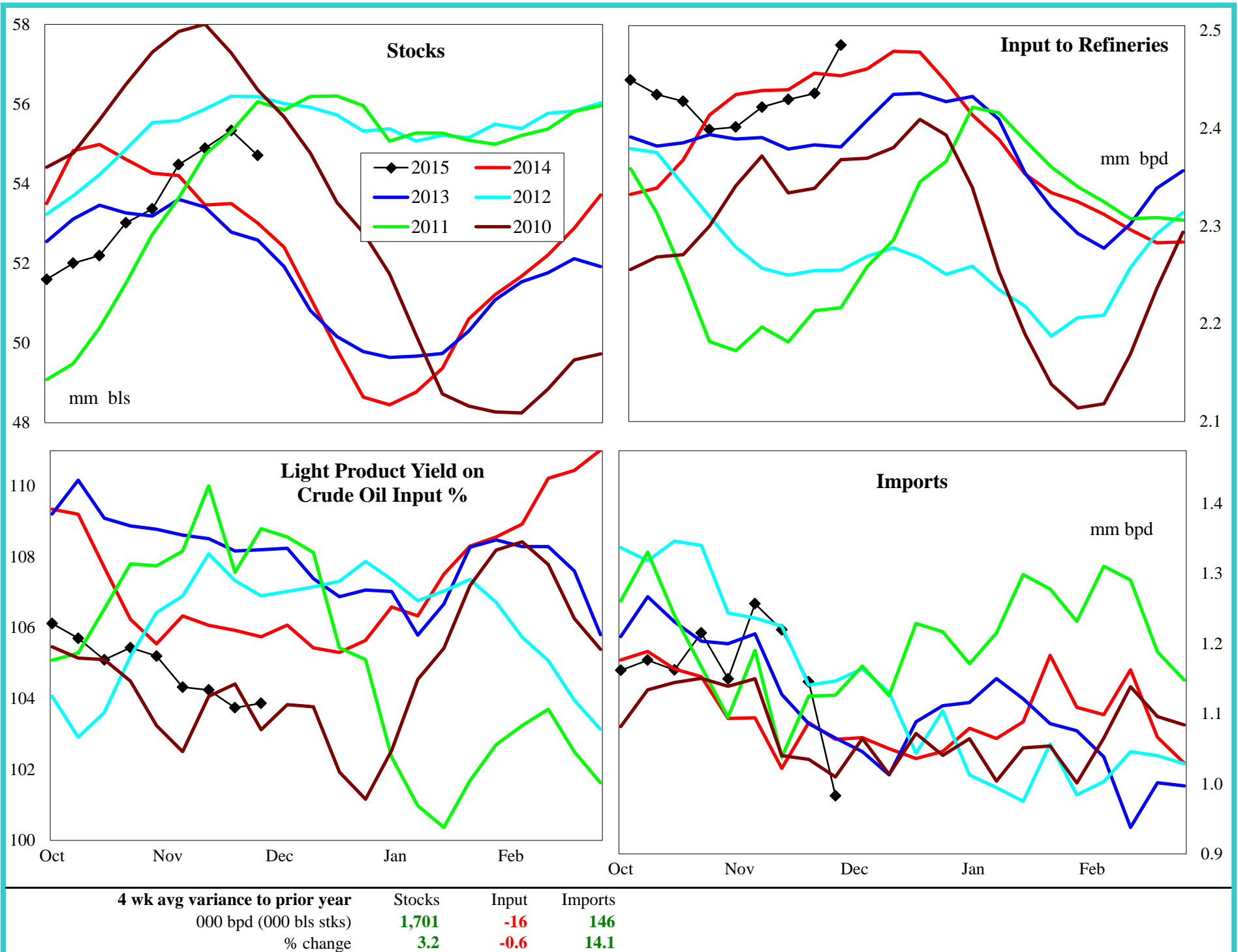
PADD 4 Jet Fuel Supply



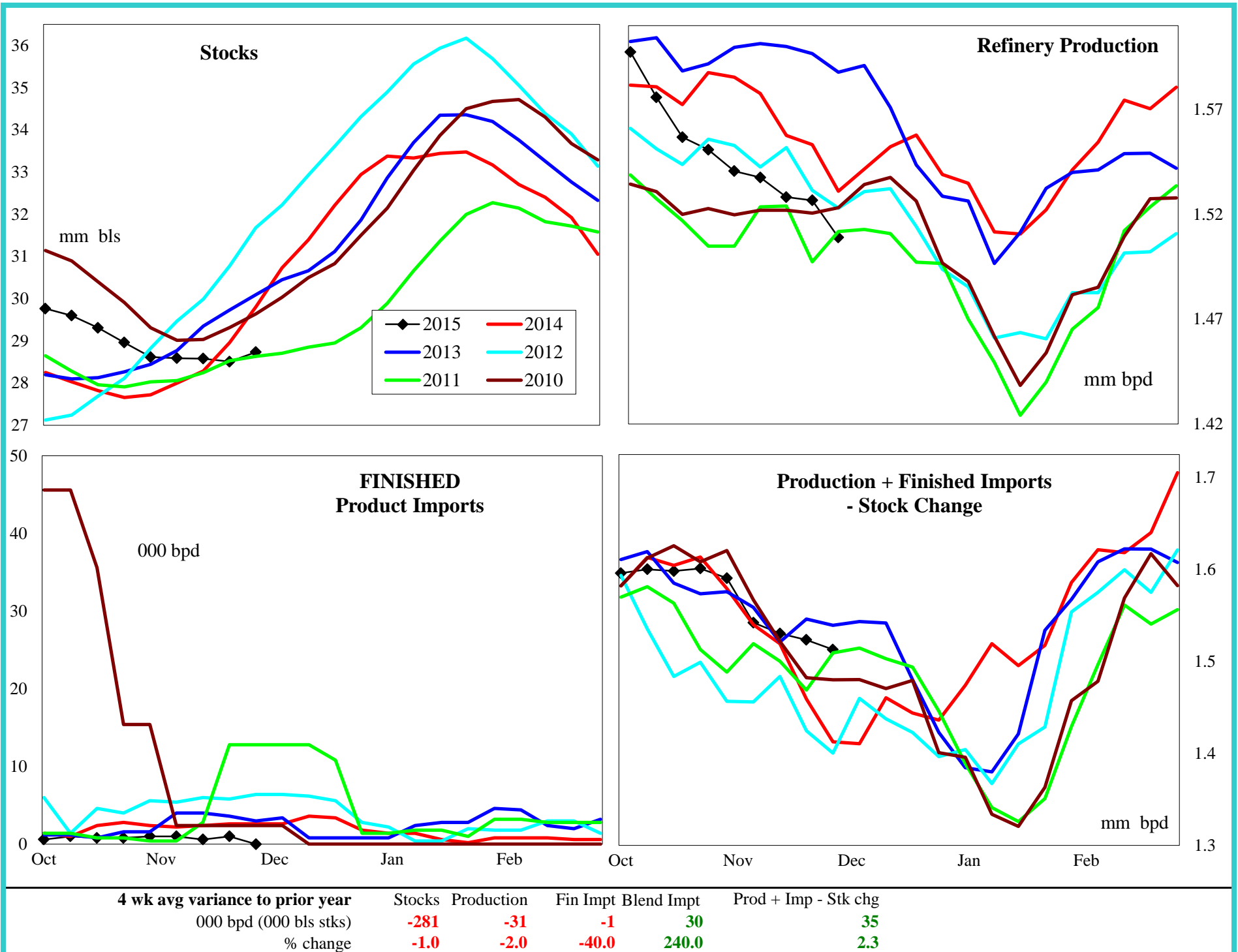
PADD 4 Residual Fuel Oil Supply



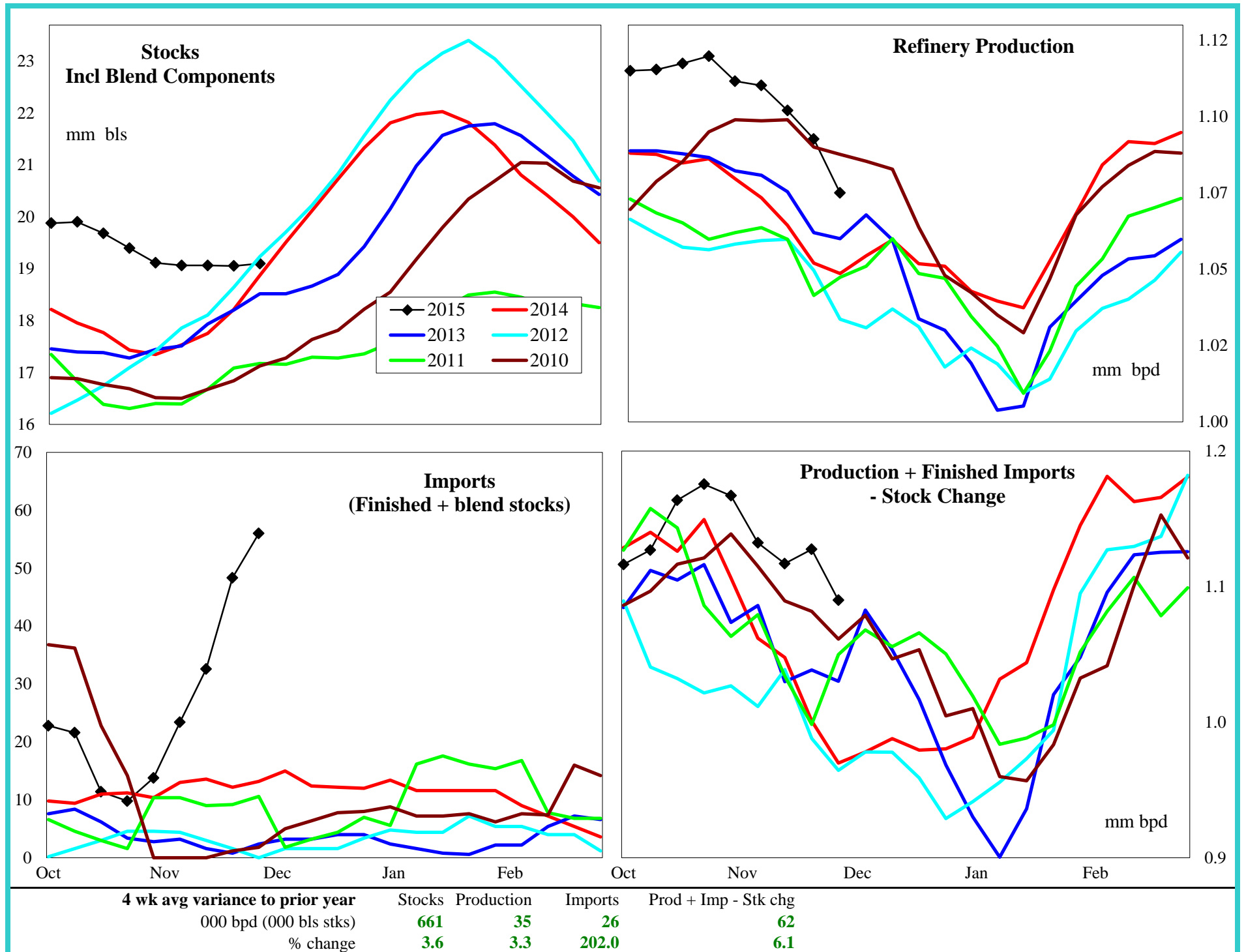
PADD 5 Crude Oil Supply and Refining



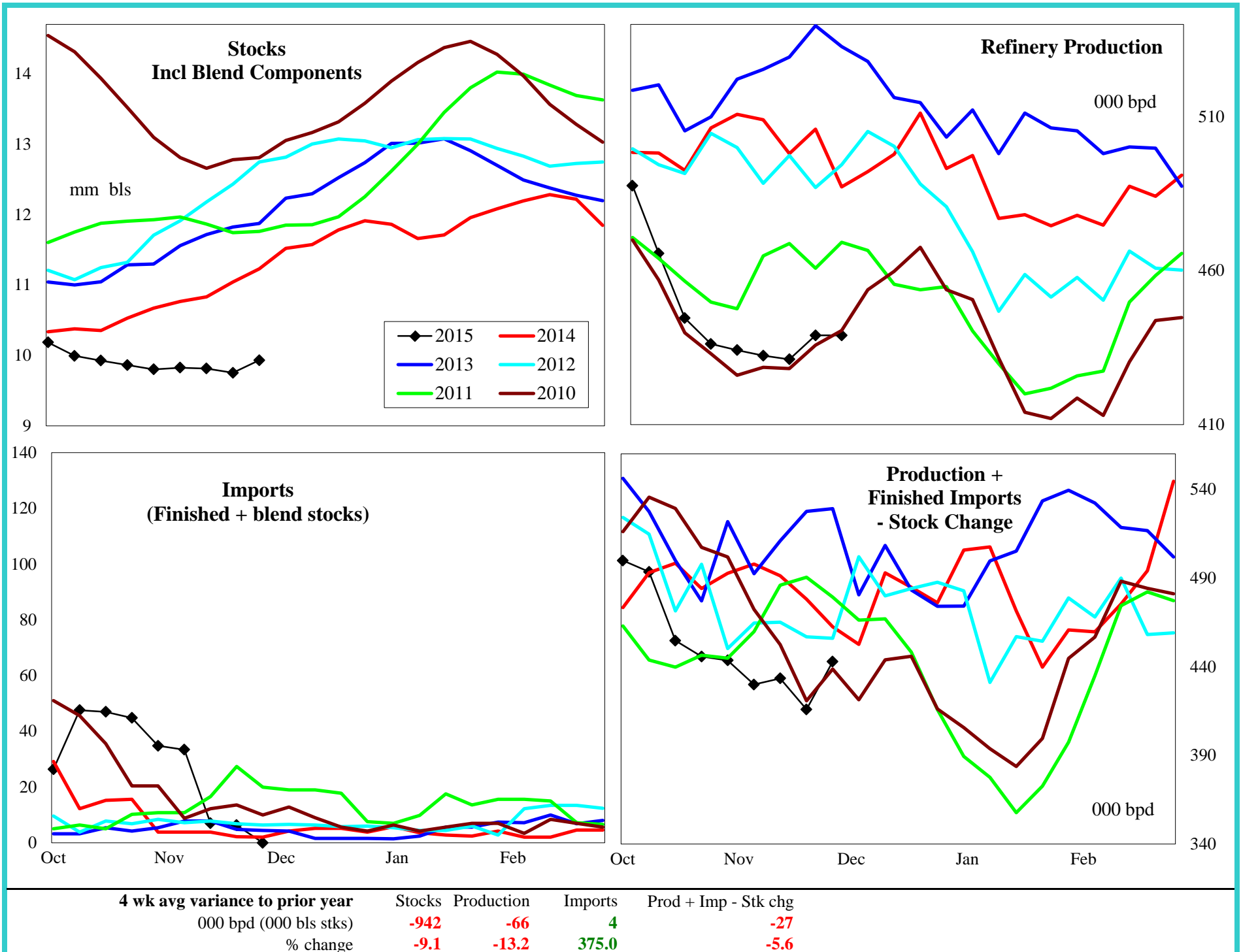
PADD 5 Gasoline Supply



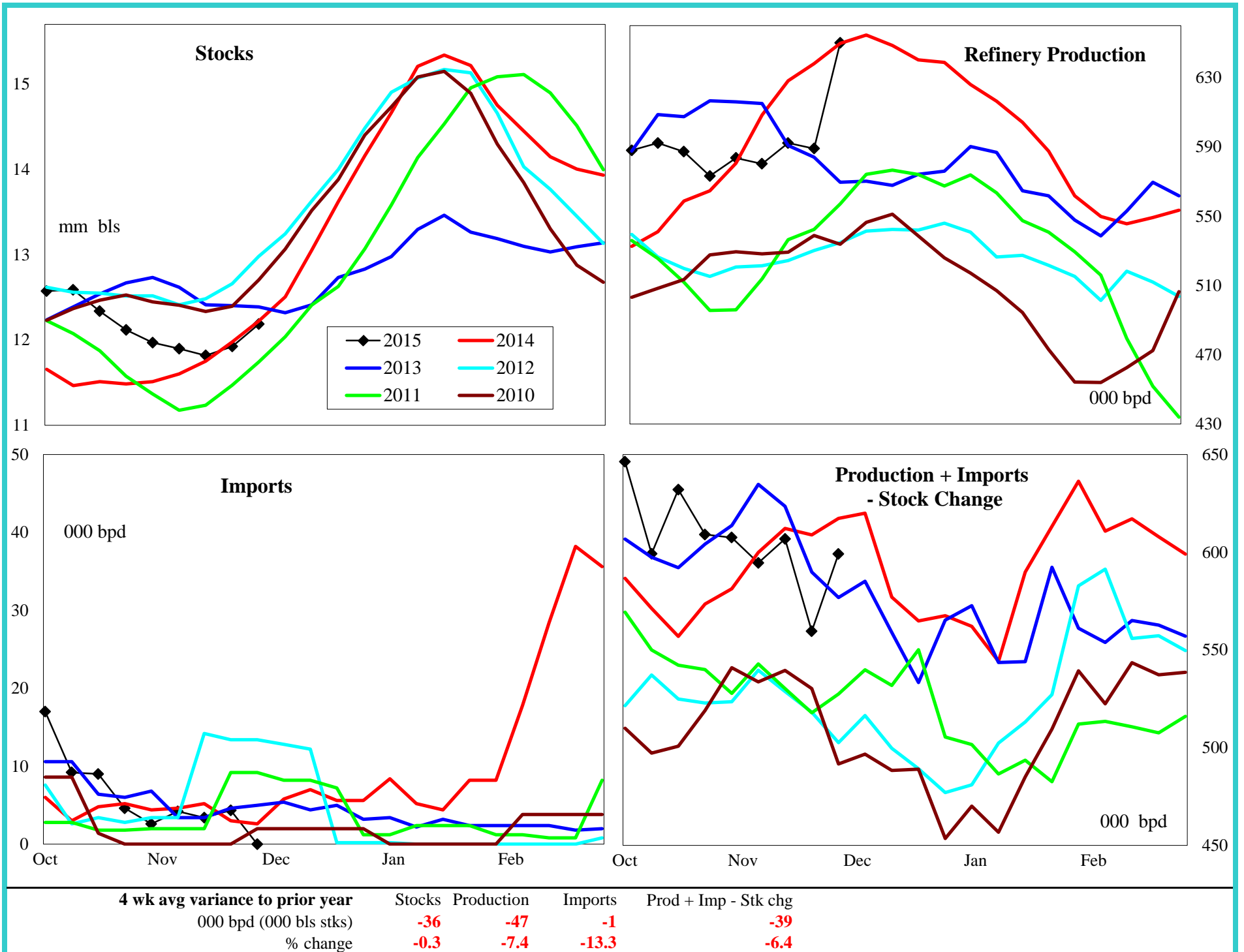
PADD 5 Reformulated Gasoline Supply



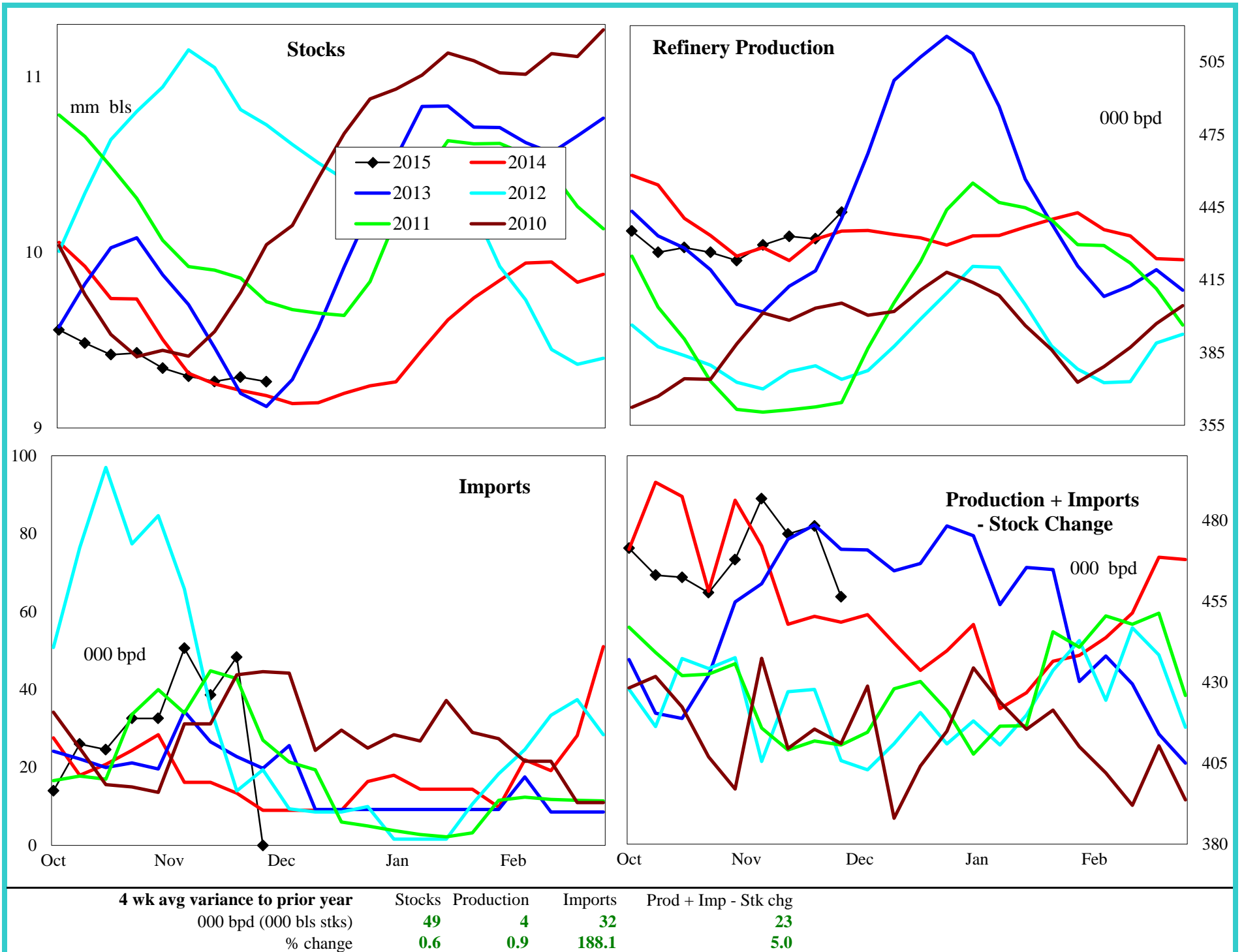
PADD 5 Conventional Gasoline Supply



PADD 5 Distillate Supply



PADD 5 Jet Fuel Supply



PADD 5 Residual Fuel Oil Supply

