



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

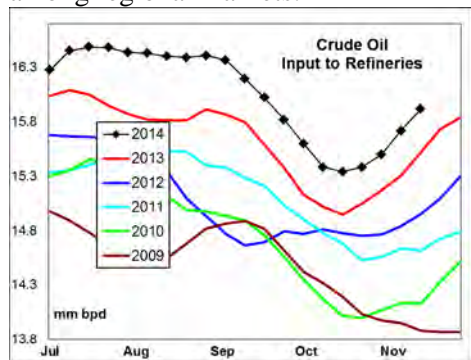
### A Fundamental Petroleum Trends Weekly Report

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

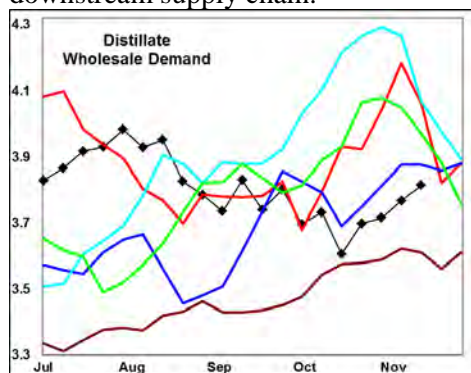


#### Major Fundamental Trends<sup>1</sup>

Refinery crude oil runs continue a seasonal uptrend as maintenance is completed. On-going maintenance in the Midwest continues to constrain product output, driving wholesale distillate prices to the highest level among regional markets.

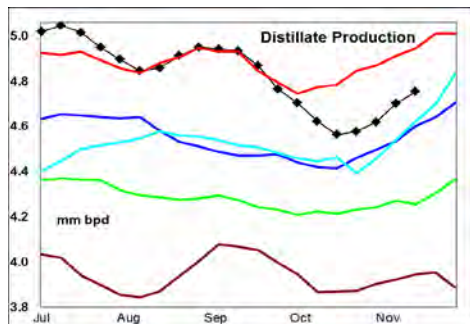


Gasoline wholesale demand has recently increased to levels above the 5-yr range, due in part to lower retail prices and restocking by the downstream supply chain.



Concurrently, wholesale demand for distillate has dropped below each of the last 3-yrs, due in part to displacement by natural gas for heating demand and mild weather during the most recent 4-wk period in major heating markets.

Look for an above average rate of gasoline stock building in most regional markets following the completion of maintenance of downstream process units that is driving record production levels.



Distillate production continues to lag year ago levels with combined output in the Midwest and Gulf regions down -310,000 bpd for the most recent 4-wk period compare to a year ago. The lower output has been offset by weak demand so that stock levels are nearly unchanged from a year ago.

**Wholesale Demand** for middle distillates remains below each of the last 3-yrs.

Wholesale demand, measured over the last four weeks compared to a year ago: gasoline decreased -1.2%, distillate decreased -13%, jet fuel increased +4% while residual fuel decreased -3%.

**Stocks forward coverage:** Gasoline demand coverage increased on a +1 million barrel stock build. Coverage ended the week at a level below the historic range.

Distillate coverage decreased on a -2.1 million barrel stock draw, partially offset by weak demand. Coverage ended the week at a level equal to the 3-yr mid range.

Jet fuel coverage remains extremely low on another decline in stocks last week. Coverage ended the week well below the 5-yr range.

Residual fuel oil coverage was near historic highs on a +0.8 million barrel stock build for the week.

**Refinery utilization** rates increased on a +161,000 bpd rise in crude oil runs last week, concentrated in the Gulf and Midwest regions. During the latest 4-wk period crude oil input was +325,000 bpd above a year ago.

Gasoline yield % on crude oil runs increased last week on a +285,000 bpd increase in output compared to the

+161,000 bpd increase in crude oil runs. Yield % on crude oil runs ended the week above the last 2-yrs.

Distillate yield % on crude oil runs decreased last week, on a -29,000 bpd decline in output compared to the increase in crude oil runs. The yield % on crude oil runs remains well below each of the last 3-yrs for the week.

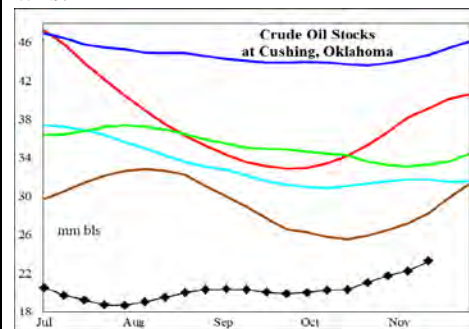
Jet fuel yield % on crude oil runs fell last week on a -55,000 bpd decline in output compared to the increase in crude oil runs. The yield % matched the 5-yr mid range for the week.

**Petroleum Imports/Exports:** Imports of crude oil increased +0.8 million bpd last week, while product imports saw little change.

During the latest 4-wk period crude oil imports were -0.5 million bpd below last year; distillate imports were -77,000 bpd lower; finished gasoline imports were +6,000 bpd higher; gasoline blend stock imports were +5,000 bpd higher, jet fuel imports increased +8,000 bpd, and residual fuel imports increased +66,000 bpd.

*Exports of distillate for the week ending 24Oct14 were -25,000 bpd below a year ago, gasoline +44,000 bpd higher, jet fuel +20,000 bpd higher and residual fuel oil was unchanged.*

**Crude Oil** stocks increased +2.6 million barrels on the week, including a +0.7 million barrel build in Cushing last week. Cushing has seen a +4.3 million barrel build during the last 6-wks.



The Cushing build reflects refinery maintenance and increased receipts from pipeline debottlenecking.

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



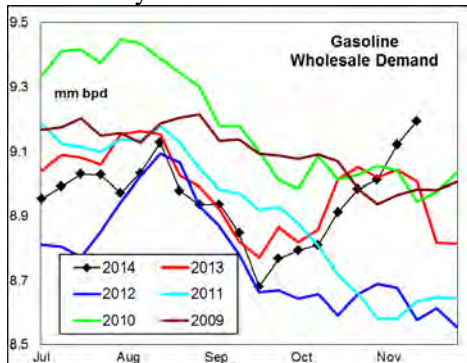
## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

### A Fundamental Petroleum Trends Weekly Report

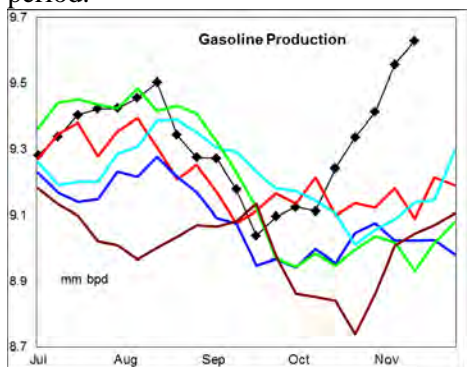
Lehi German Tel: 816.505.0980 [www.fundamentalpetroleumtrends.com](http://www.fundamentalpetroleumtrends.com) Wednesday, November 19,

#### Product Supply-Demand Trends

**Gasoline** wholesale demand increased +189,000 bpd on the week, to a level above the 5-yr range. The latest 4-wk average demand was -108,000 bpd below last year.



Supply increased +210,000 bpd last week on higher production. Supply for the latest 4-wk period exceeded a year ago by +321,000 bpd on higher production. Stocks increased +1 million barrels on the week, although the level remains near 5-yr lows for the period.

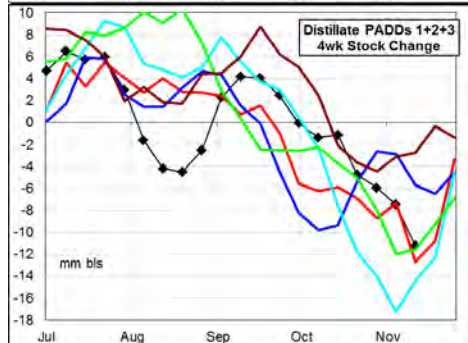
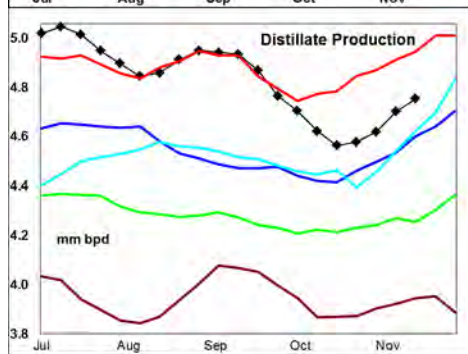
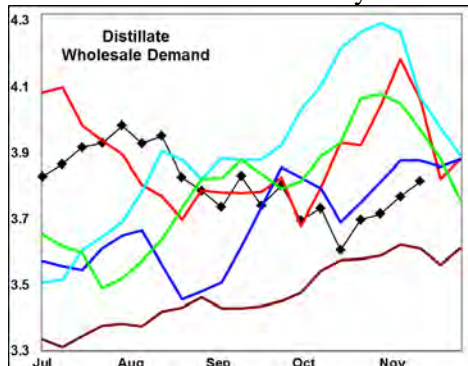


*Look for a meaningful stock build in the near term as refiners operate at very high rates following maintenance of downstream units. Regional markets should see improved supply balance in the near term on high production rates.*

**Distillate** wholesale demand decreased -173,000 bpd last week, to a level below the last 3-yrs. The latest 4-wk average demand was -527,000 bpd below last year.

Supply decreased -67,000 bpd on lower production and imports. Production was -260,000 bpd below last year for latest 4-wk period, with imports -77,000 bpd lower. Stocks fell

-2 million barrels on the week, to match the levels of the last 2-yrs.

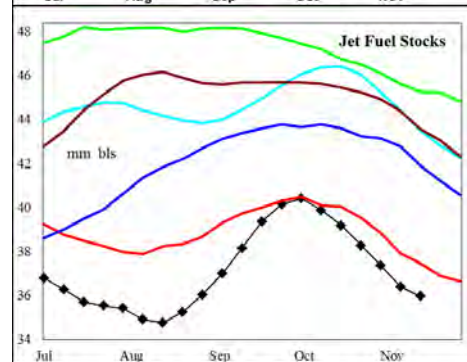
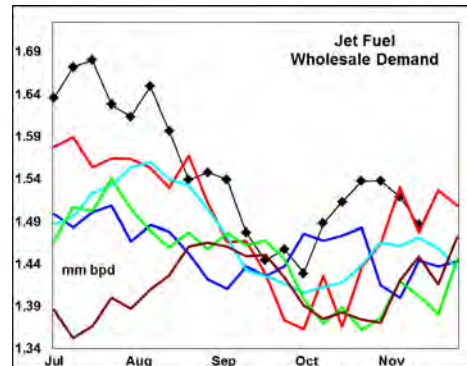


The latest 4-wk stock change in markets East of the Rockies was a -11.5 equal to the 3-yr mid range.

*Recent wholesale demand has been extremely weak compared to the last 3-yrs. Look for a jump in demand on higher seasonal heating use; offset by higher production. Stocks should see a below average seasonal build by month end.*

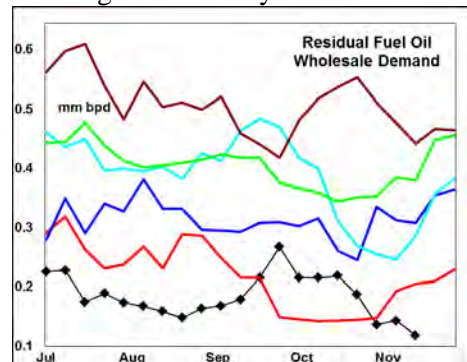
**Jet Fuel** wholesale demand declined -77,000 bpd on the week, with the 4-wk average +59,000 bpd above last year. Production for the most recent 4-wk period was +55,000 bpd above last year. Imports were +8,000 bpd higher.

Stocks decreased -0.2 million barrels to a new record low level for this time of year.



*Look for higher seasonal demand to offset rising production and imports so that stock levels remain low.*

**Residual fuel oil** demand decreased -11,000 bpd on the week. Demand for the latest 4-wk period was nearly unchanged from last year.



Supply (production + imports) decreased -61,000 bpd on the week, driven by lower production. Stocks climbed +0.8 million barrels to a level above the 3-yr mid range.

*Imports are +66,000 bpd above last years' record lows for the latest 4-wk period. Look for continued stock builds on higher imports and record low demand.*



## WEEKLY PETROLEUM SUPPLY-DEMAND TRENDS

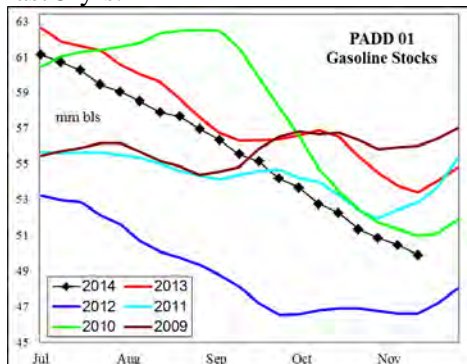
### A Fundamental Petroleum Trends Weekly Report

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

#### PADD Supply Trends

**PADD 1** refinery crude oil runs were +23% above the last 2-yr for the latest 4-wk period.

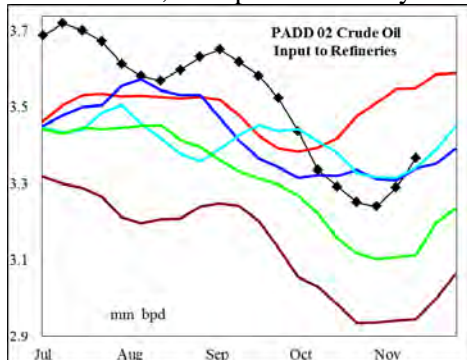
Gasoline supply decreased -91,000 bpd on the week, with the 4-wk average +98,000 bpd above last year. Stocks decreased -0.4 million barrels last week, to a level below four of the last 5-yr.



Distillate supply decreased -66,000 bpd last week, with the 4-wk average -34,000 bpd below last year. Stocks fell -2.6 million barrels, to a level +3% above the last 2-yr.

Jet fuel supply increased +34,000 bpd above last year for the most recent 4-wk period. Stocks fell to a new record low for the period.

**PADD 2** crude oil refinery runs increased +109,000 bpd on the week, although the latest 4-wk average remains -283,000 bpd below last year.



Crude oil stocks increased +1.1 million barrels to a level -9 million barrels below a year ago. Cushing saw a +0.7 million barrel stock build on the week.

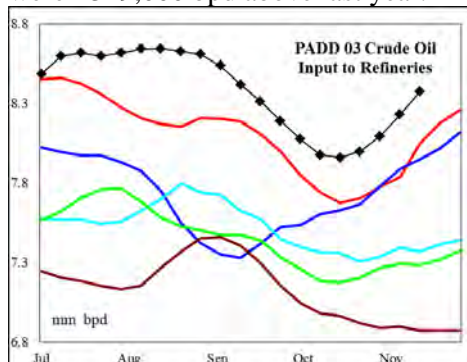
Gasoline supply increased +99,000 bpd on the week. Production for the most recent 4-wk period was +12,000 bpd above a year ago. Stocks

increased +0.8 million barrels on the week, still at a record low level for this time of year.

Distillate supply decreased -38,000 bpd on the week, with the 4-wk average -91,000 bpd below a year ago. Stocks decreased -0.2 million barrels to a new record low for the season.

Jet fuel production decreased -22,000 bpd on the week, to a level below the 5-yr range. Stocks ended the week at a record low level for the season.

**PADD 3** refinery runs increased +118,000 bpd on the week, with the level above the historic range. During the latest 4-wk period, average runs were +349,000 bpd above last year.



Crude oil stocks increased +1.9 million barrels, as refiners ramped up runs. Imports increased +0.5 million bpd on the week, to the highest level of the quarter.

Gasoline supply increased +190,000 bpd last week, with the latest 4-wk average +76,000 bpd above a year ago. Stocks decreased -0.6 million barrels on the week, to a level matching historic highs for the period.

Distillate supply increased +27,000 bpd on the week, with the latest 4-wk average supply -230,000 bpd below a year ago. Stocks increased +0.6 million barrels on the week, to a level +10% above last year.

Jet fuel production was above the historic range for the week. Stocks were unchanged last week at a level -5% below prior record lows.

Residual fuel supply was nearly unchanged on the week. Stock levels reached a new record high for the

season.

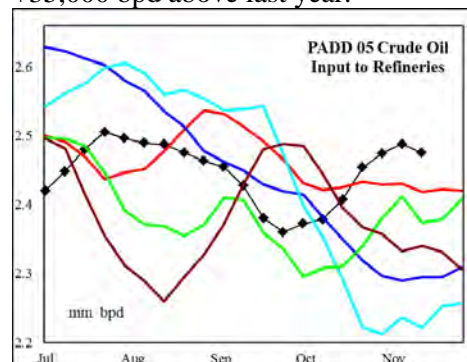
**PADD 4** refinery crude runs were nearly unchanged on the week, at a level above the 5-yr range, with the latest 4-wk average was +11,000 bpd above a year ago.

Gasoline production fell -40,000 bpd, with the latest 4-wk average unchanged from a year ago. Stock levels ended the week at a level above the 3-yr mid range.

Distillate supply was nearly unchanged from last week, with the latest 4-wk production +34,000 above last year. Stock levels were also above the 5-yr range.

Jet fuel production and stocks each fell below the 3-yr mid range last week.

**PADD 5** crude oil refinery runs decreased -40,000 bpd last week, ending at a level above the 5-yr range for the period. The 4-wk run rate was +35,000 bpd above last year.




Gasoline supply fell -108,000 bpd on the week, with the 4-wk average -14,000 bpd below a year ago. Stocks jumped +1.3 million barrels on the week, ending at a level below the 3-yr mid range.

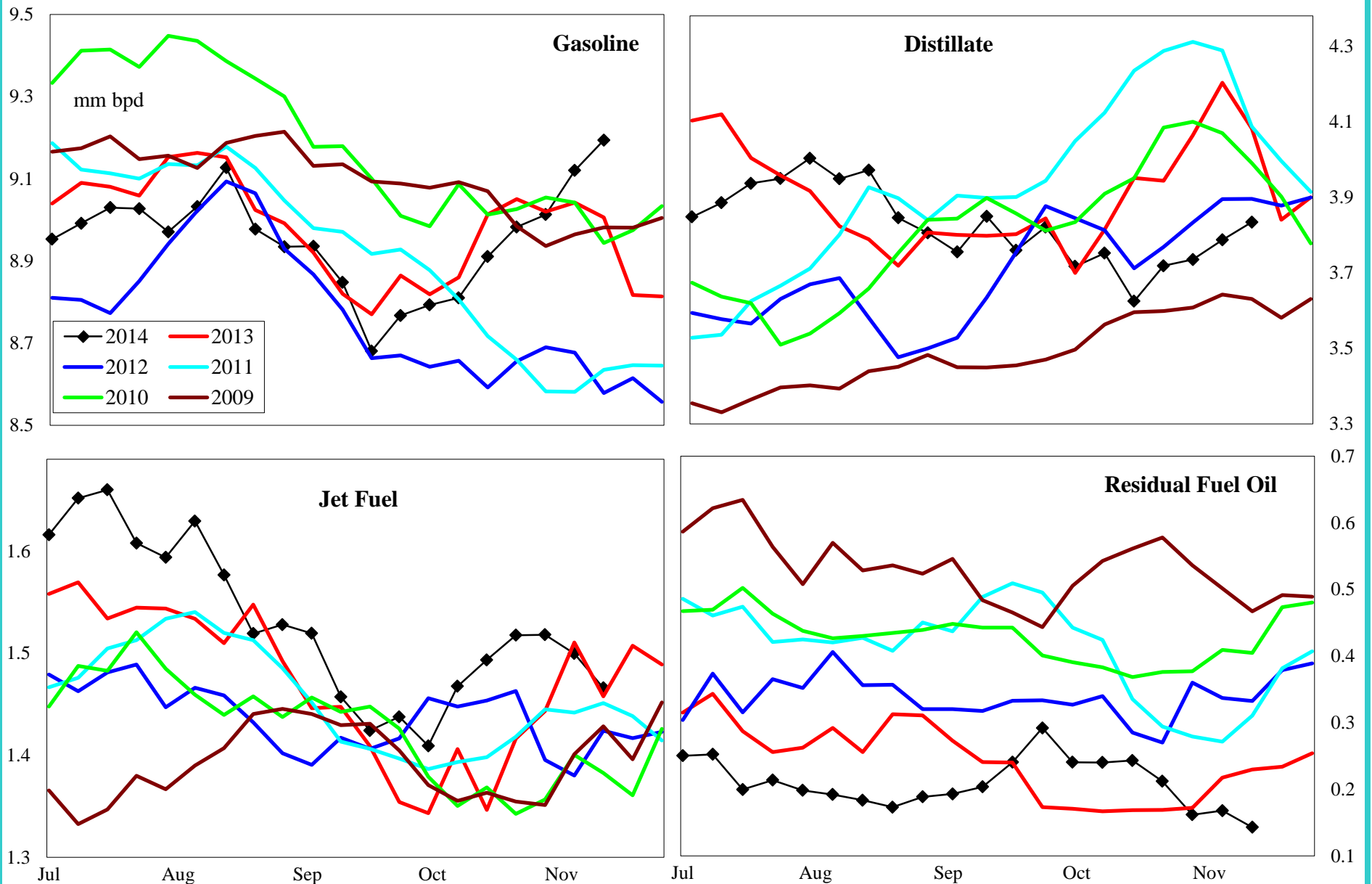
Distillate supply increased +13,000 bpd on the week, lifting production above the 5-yr range. The 4-wk average supply was -16,000 bpd below a year ago. Stocks were unchanged on the week, ending at a level -0.8 million barrels below a year ago.

Jet fuel supply was unchanged on the week, with the level matching historic highs. Stocks ended the week at the low end of the 5-yr range.



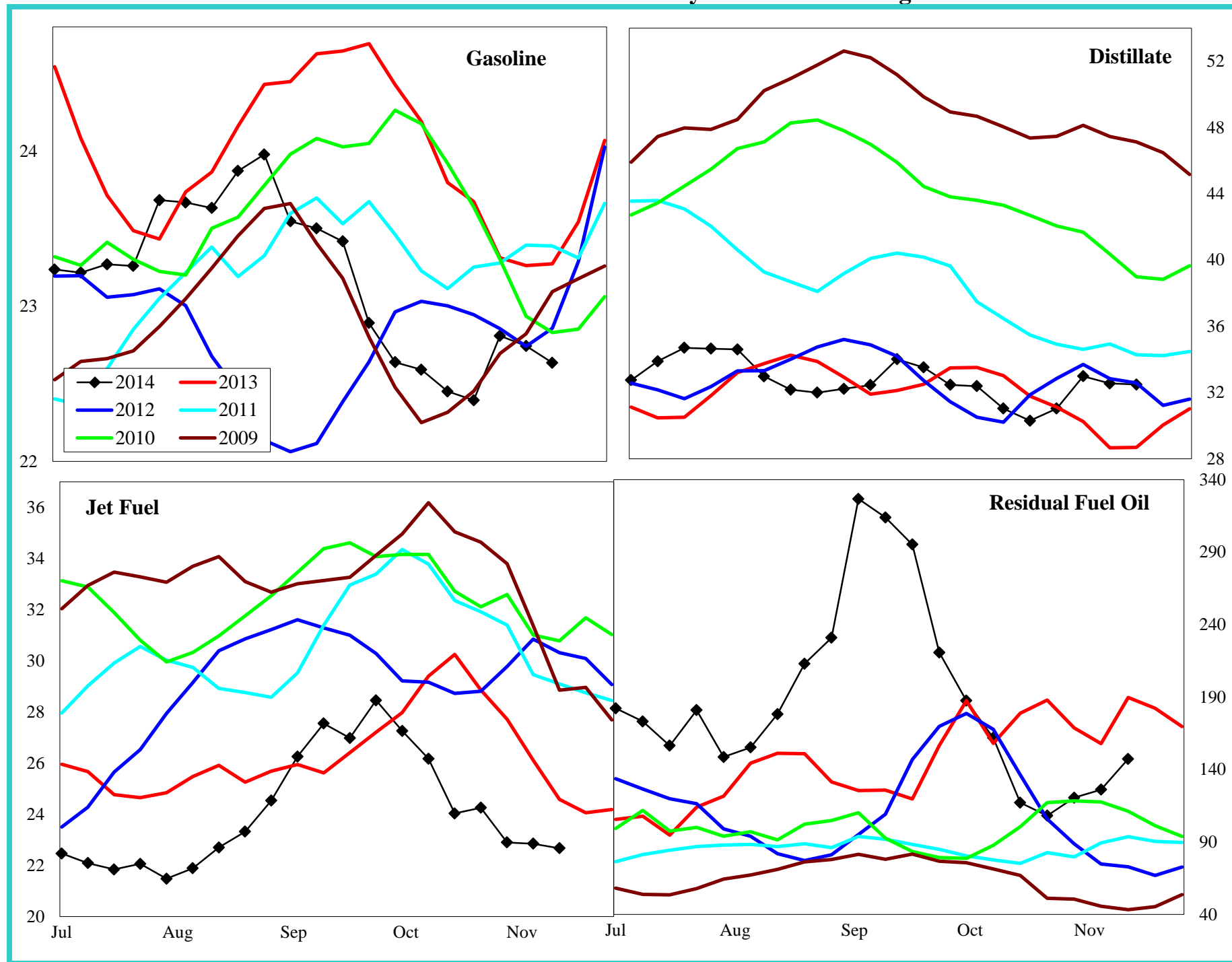
 FUNDAMENTAL PETROLEUM TRENDS		CHARTS: Graph Link and Weekly Summary					
		A Fundamental Petroleum Trends Weekly Report    November 19, 2014					
		German Tel: 816.505.0980 <a href="http://www.fundamentalpetroleumtrends.com">www.fundamentalpetroleumtrends.com</a>					
Fundamental Trends	<a href="#">Wholesale Demand</a>	<a href="#">Stocks Days Fwd Coverage</a>	<a href="#">Refinery Utilization</a>			<a href="#">Imports</a>	
Supply/Demand Trends	14-Nov-14	EIA-DOE CHANGE FROM PRIOR WEEK					
	000 bpd stocks 000 bls	U. S. Total	PADD				
			1	2	3	4	5
<a href="#">Crude Oil</a>	Stocks	2,608	119	1,107	1,898	-331	-186
	Imports	761	92	358	472	42	-202
	Input	161	-29	109	118	2	-40
	% Utilization	1.10					
<a href="#">Gasoline</a>	Stocks	1,034	-443	848	-599	-95	1,321
	Production	285	-10	91	190	-40	-105
	Imports	-75	-81	9	0	0	-3
	Supplied	189					
<a href="#">Distillate</a>	Stocks	-2,056	-2,581	-174	573	102	23
	Production	-29	-34	-35	27	-2	15
	Imports	-38	-32	-3	0	0	-2
	Supplied	-173					
<a href="#">Jet Fuel</a>	Stocks	-212	40	-90	-45	8	-125
	Production	-55	-15	-22	1	-2	-17
	Imports	77	54	0	0	0	23
	Supplied	-77					
<a href="#">Residual Fuel Oil</a>	Stocks	772	-30	-80	568	3	311
	Production	-49	-2	-19	-44	3	15
	Imports	-12	-101	-8	54	0	42
	Supplied	-11					
<a href="#">Propane</a>	Stocks	99	-31	-276	416	-11	
	Propylene stk	65					
	Production	47	-2	35	15	-1	
	Imports	2	9	-11	0	4	
	Supplied	167					

# United States Wholesale Petroleum Demand

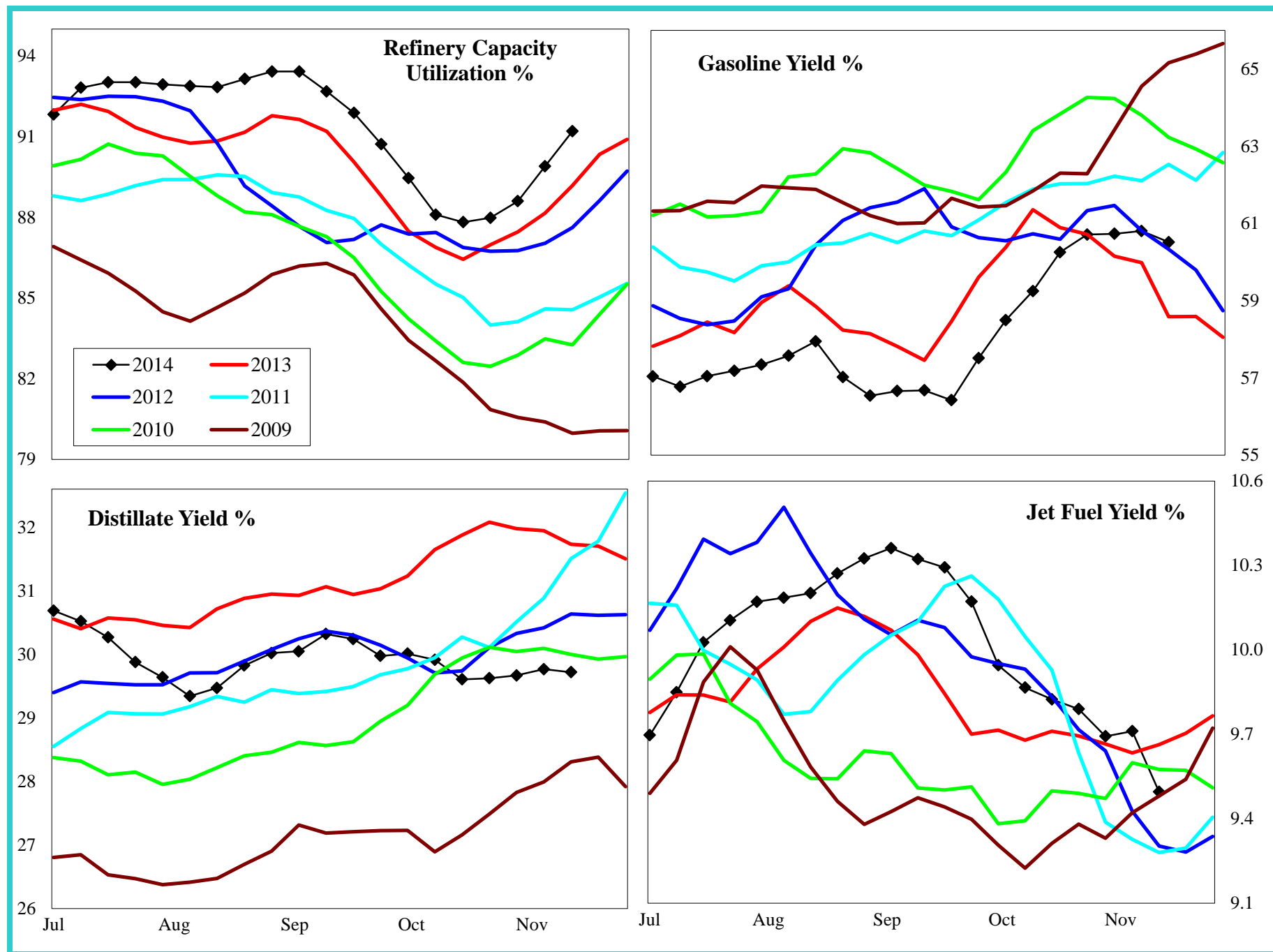


	000 bpd change from prior year				% change from prior year			
	4wk avg	Oct	Sep	Aug	4wk avg	Oct	Sep	Aug
Gasoline	-108	156	-220	199	-1.2	1.8	-2.5	2.2
Distillate	-527	-489	86	90	-12.6	-11.9	2.3	2.4
Jet Fuel	59	79	32	-9	3.9	5.4	2.3	-0.6
Resid	-5	-78	-82	-190	-3.1	-25.6	-23.5	-47.1

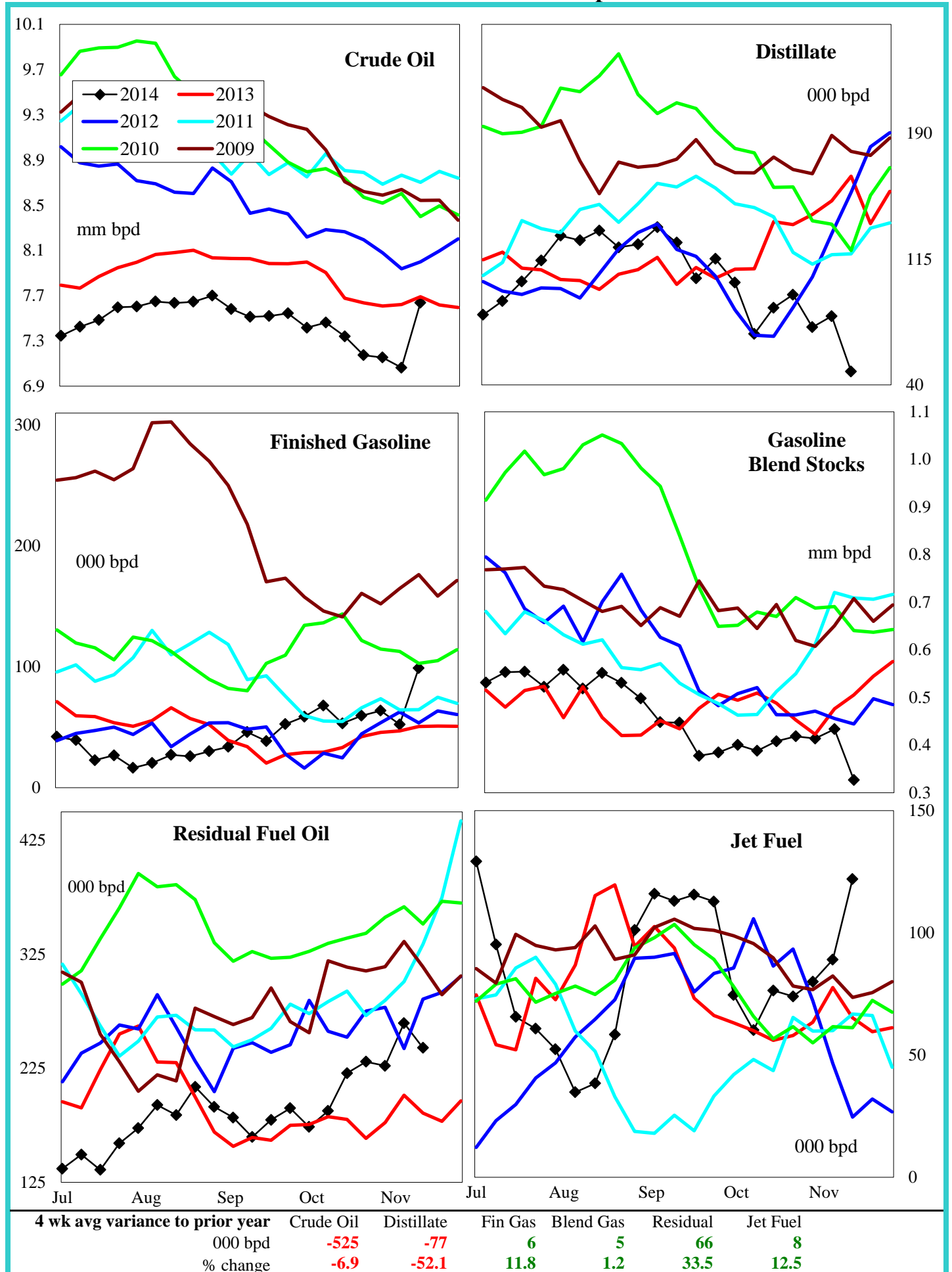


**United States Product Stocks: Days Forward Coverage**

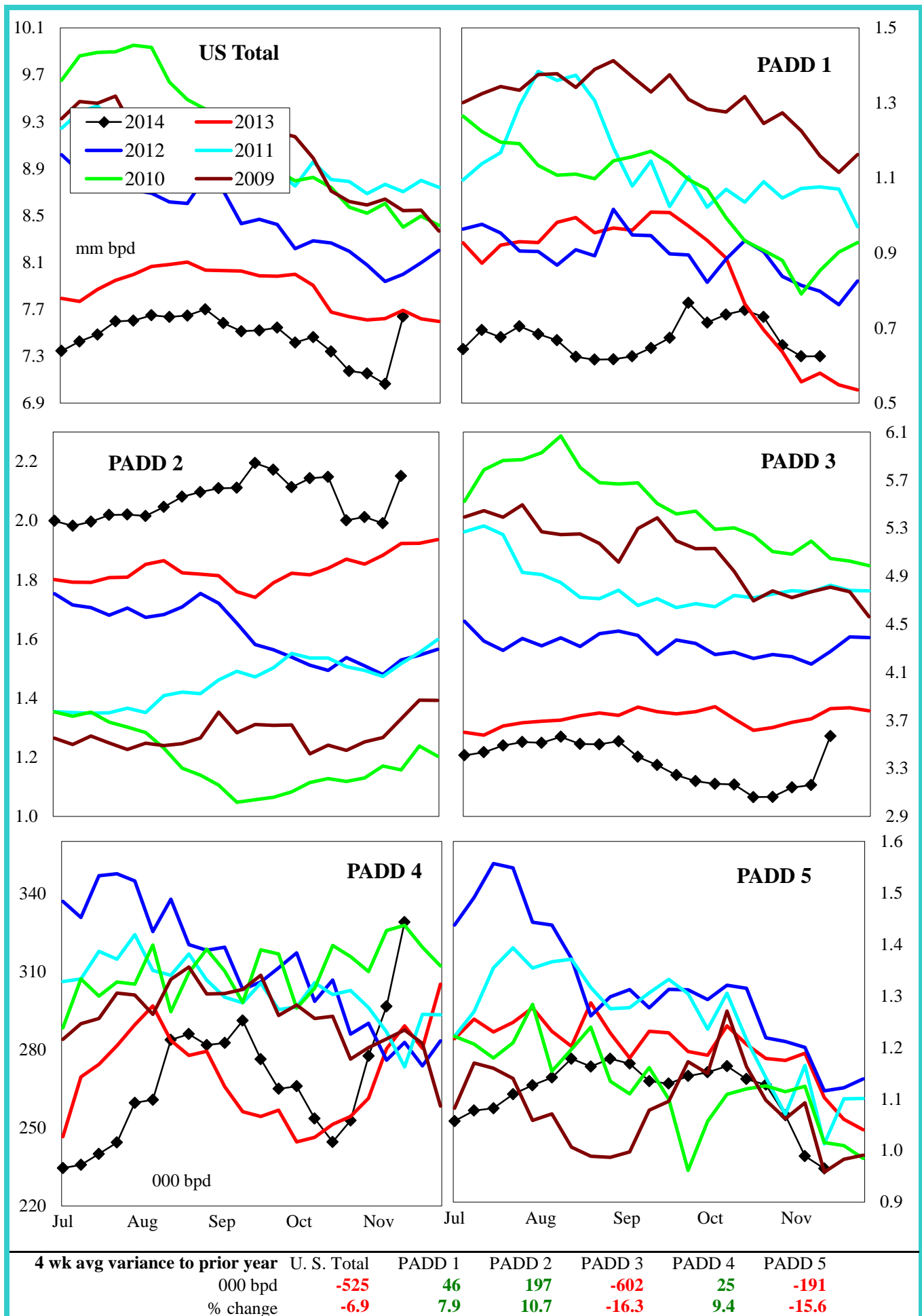
## United States Refinery Percent Utilization Rate and Product Yields



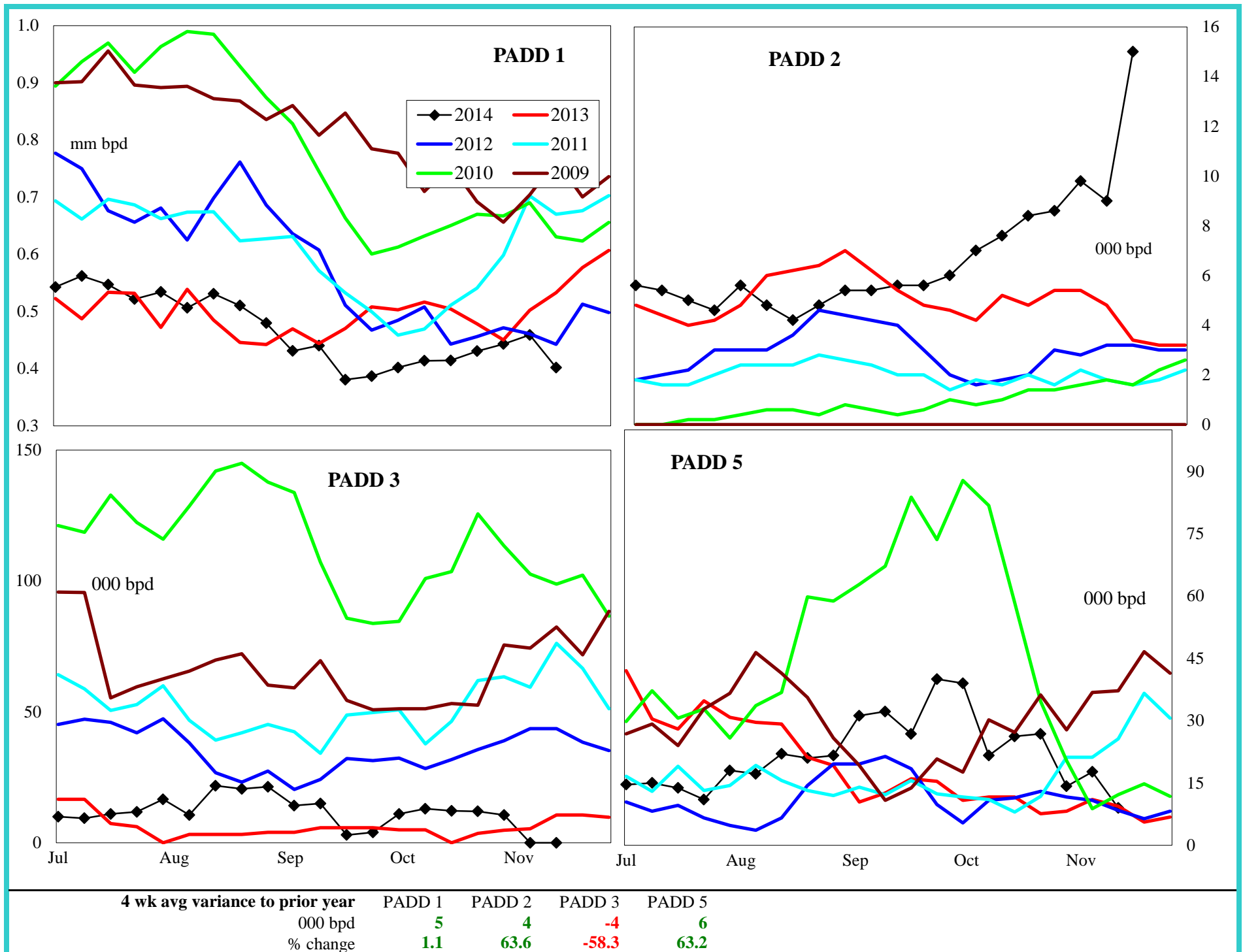
# United States Petroleum Imports



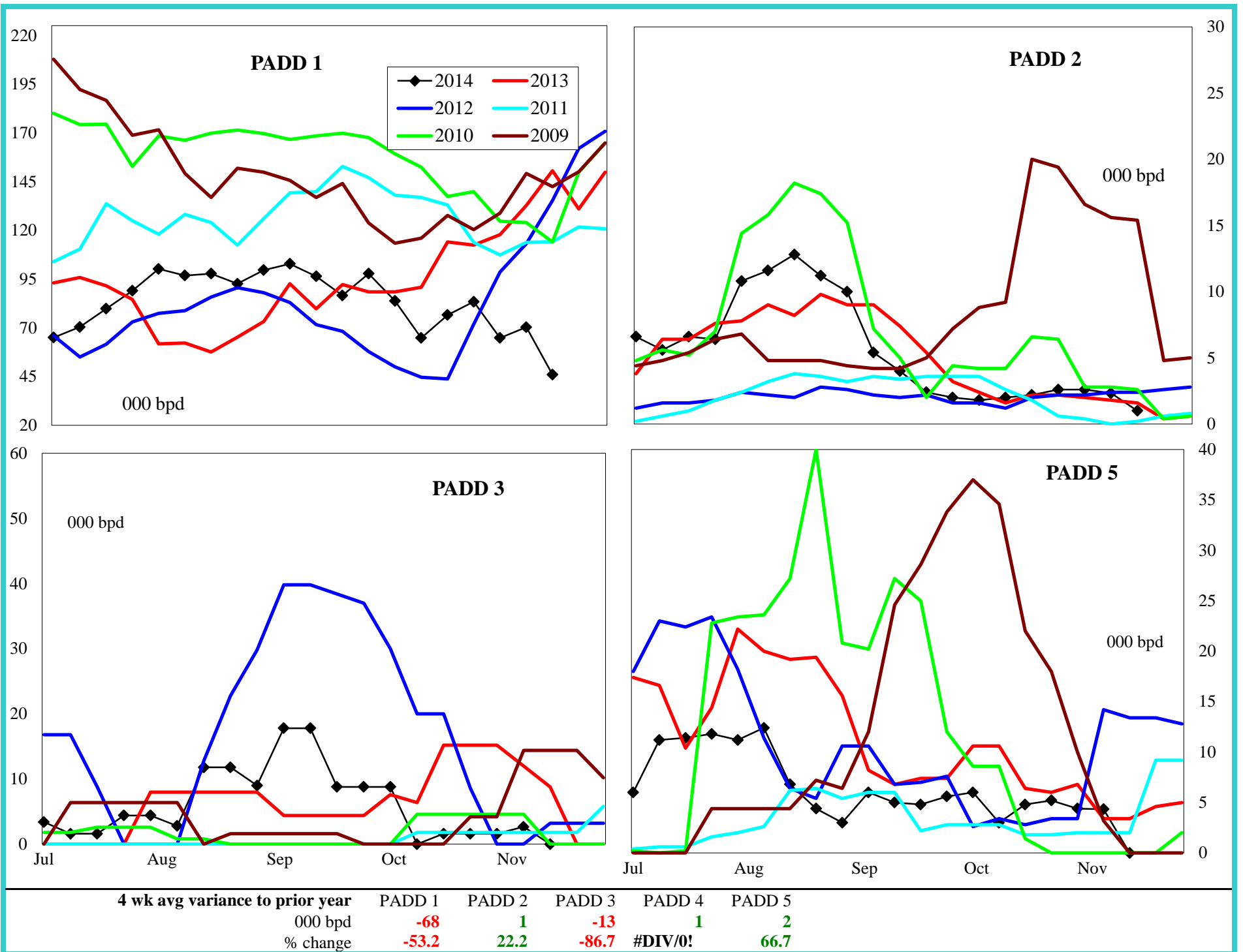
## Crude Oil Imports by PADD



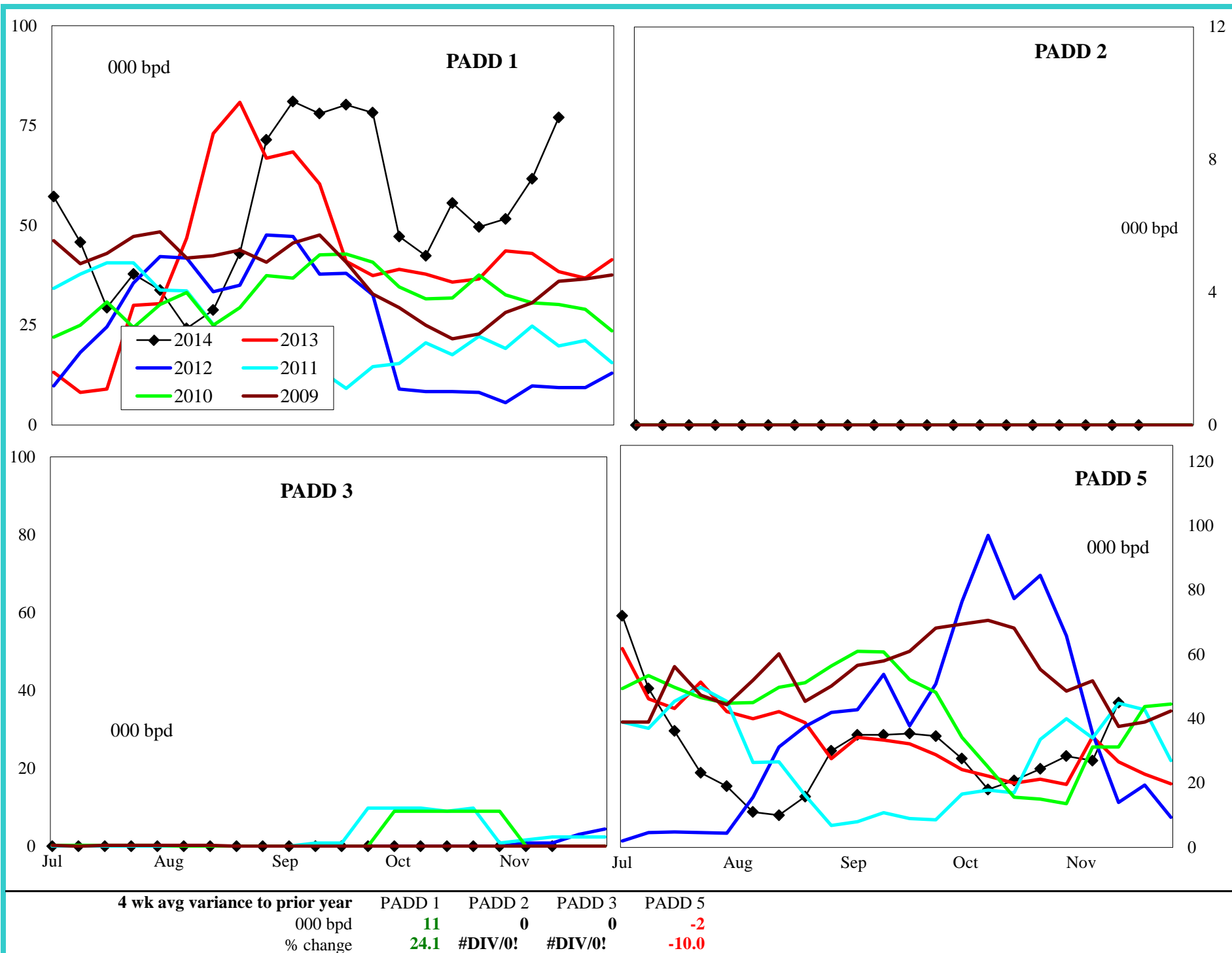
# Gasoline Imports by PADD (Finished + Blend Stocks)



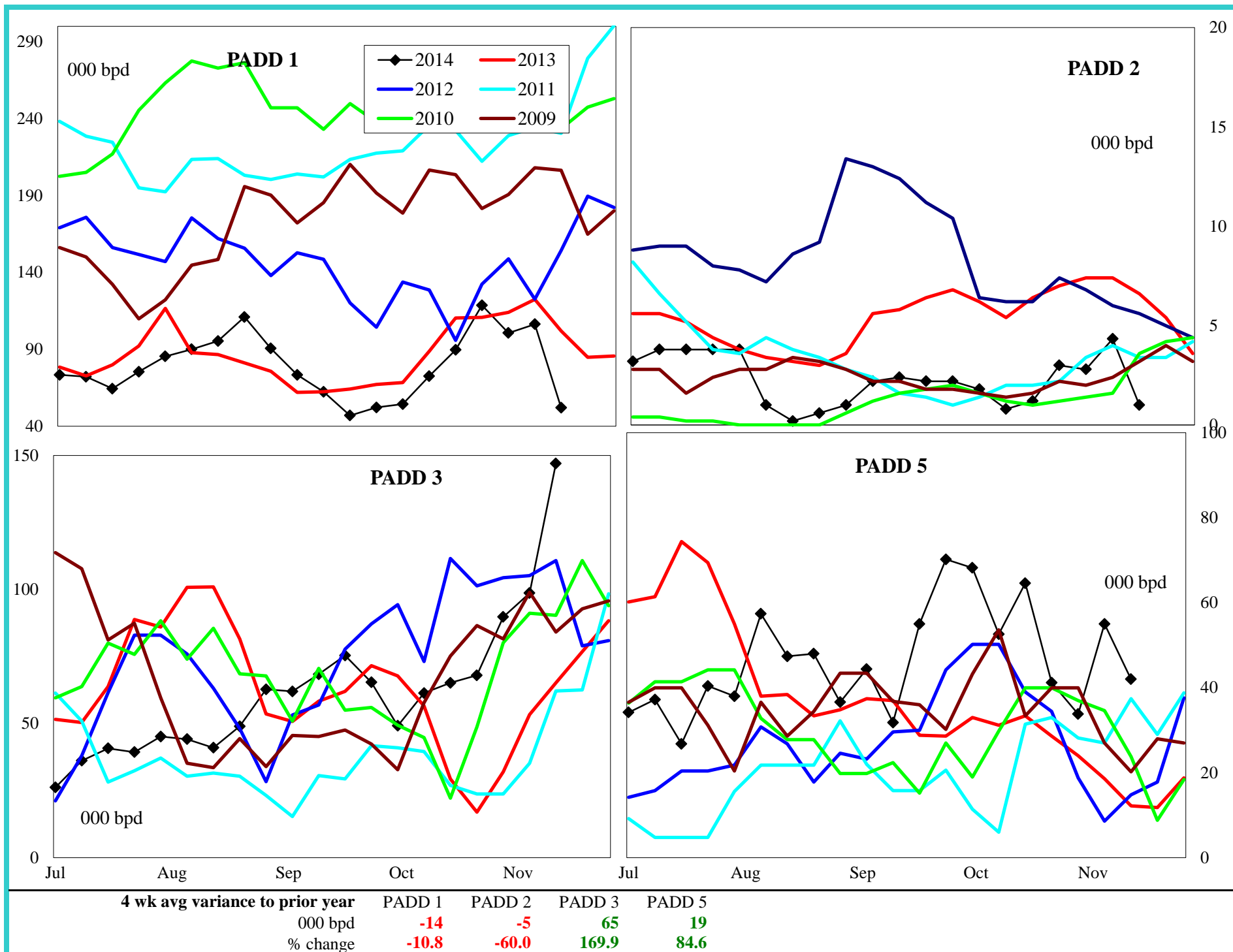
# Distillate Imports by PADD



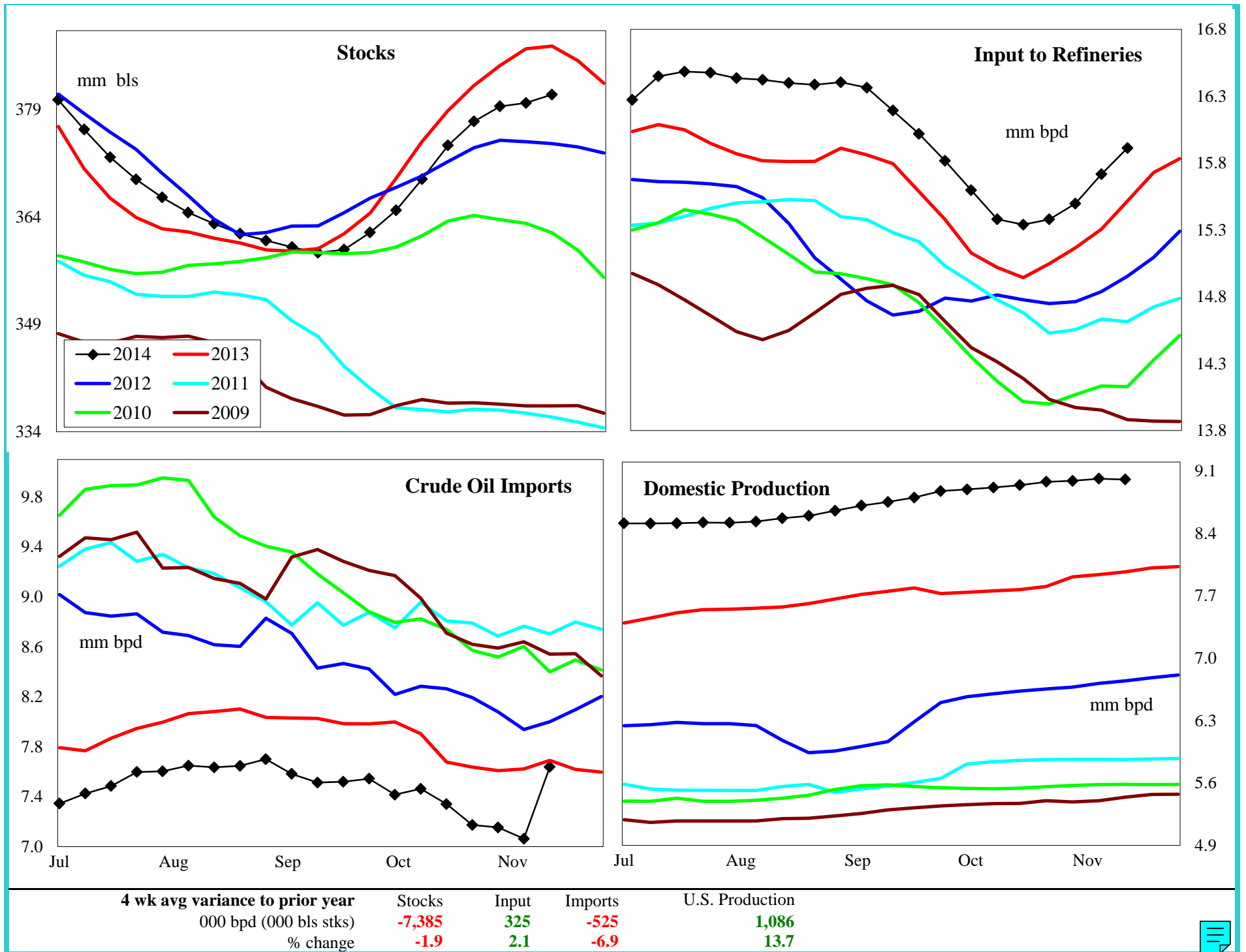
# Jet Fuel Imports by PADD



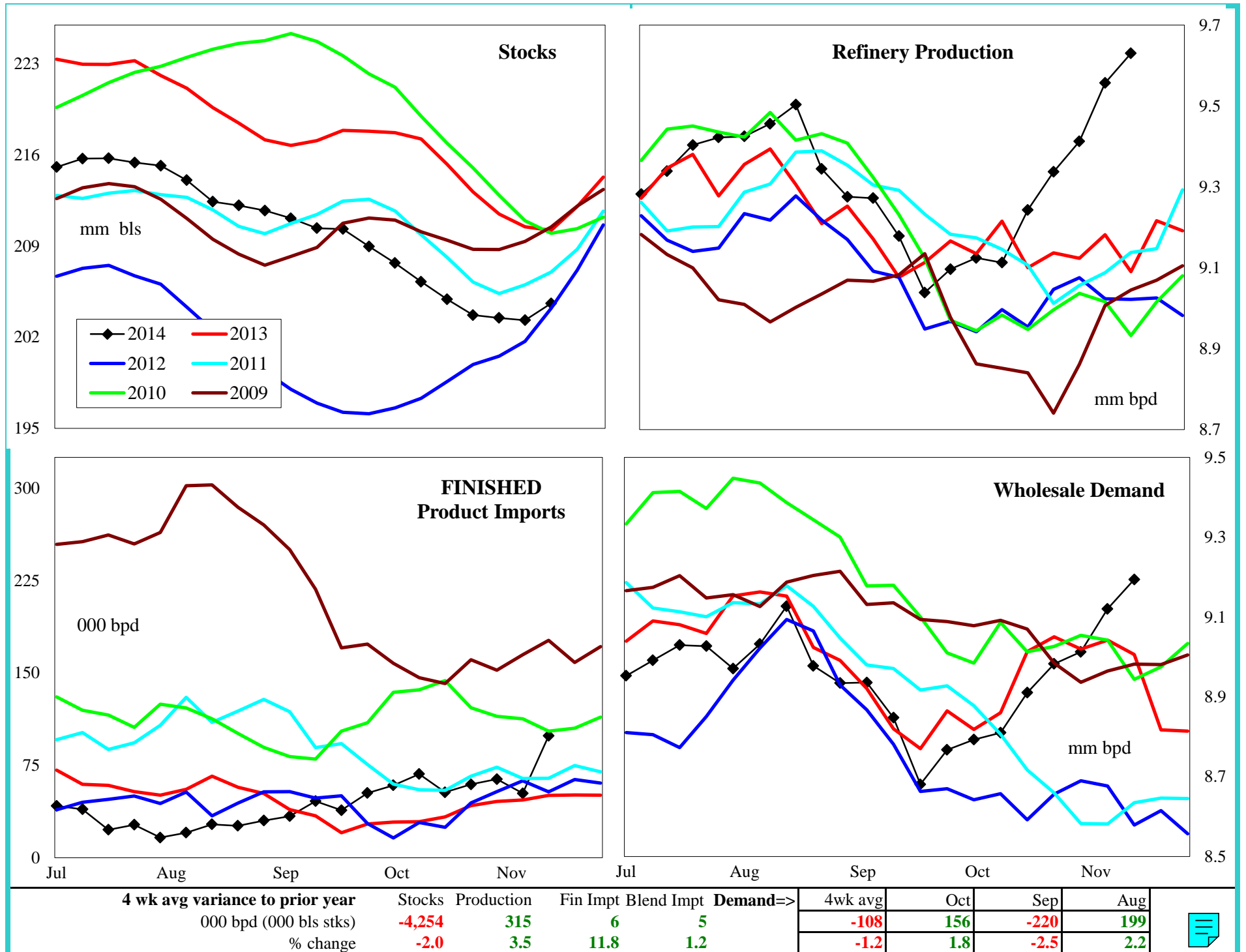
## Residual Fuel Oil Imports by PADD



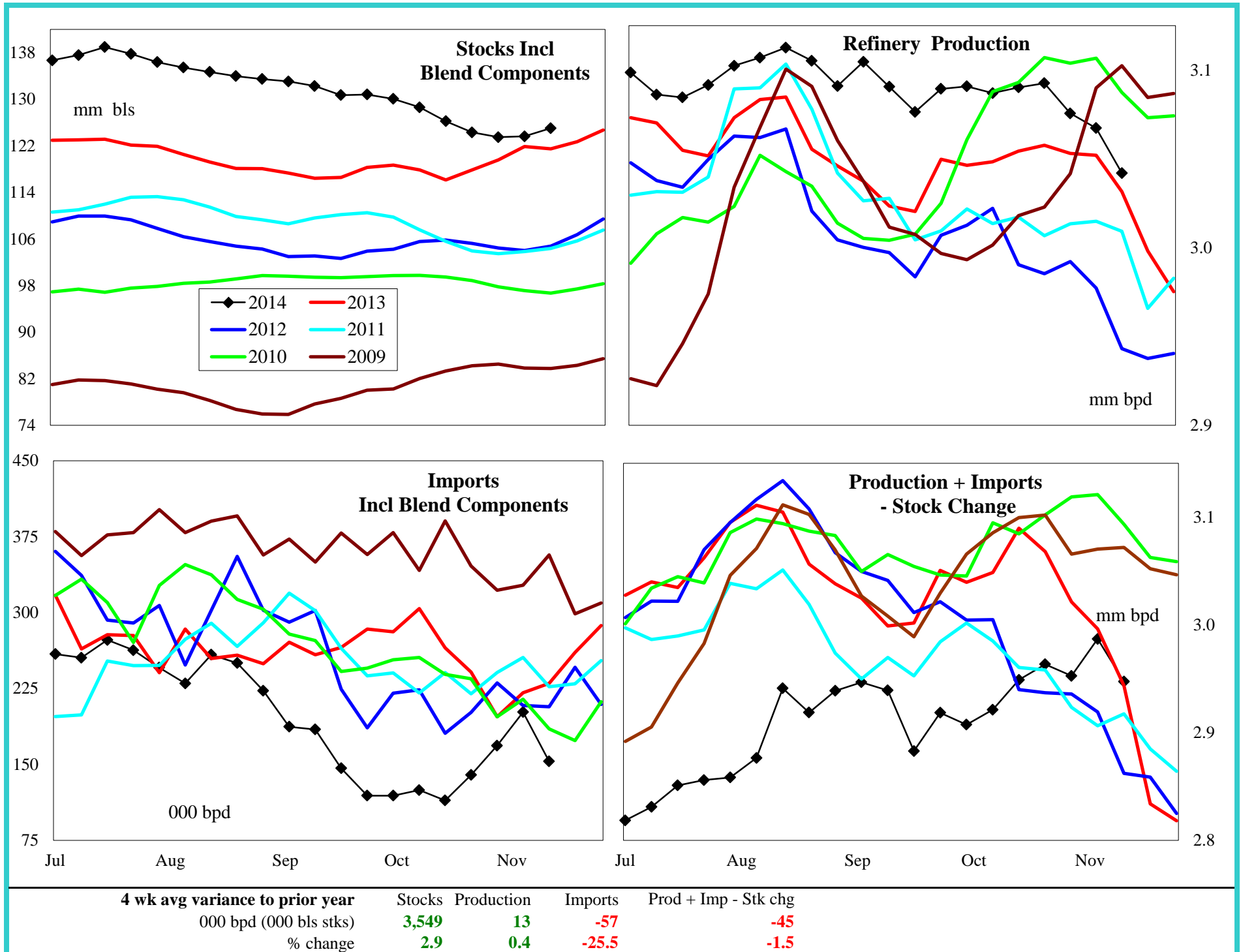
# United States Crude Oil Supply and Demand Balance



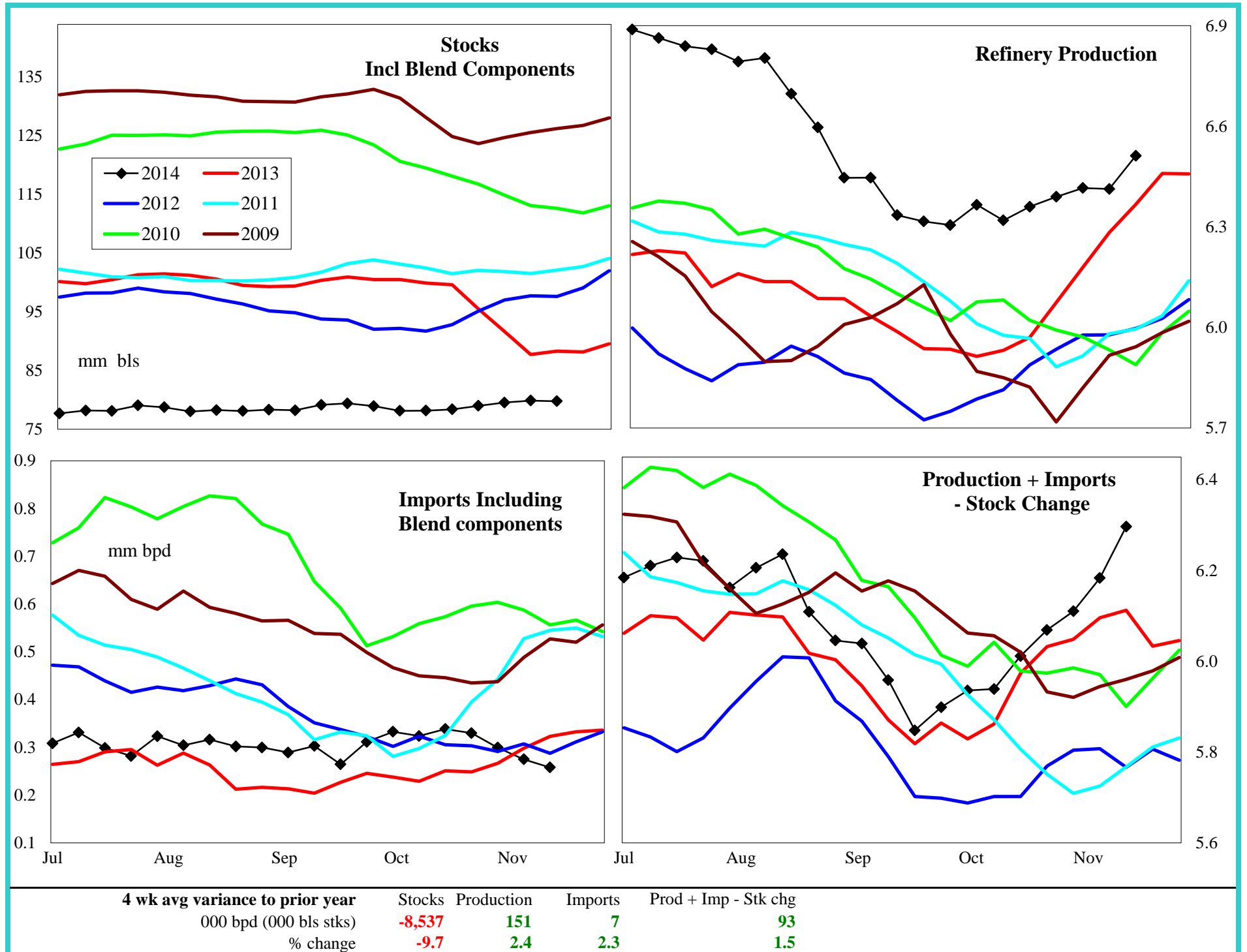
# United States Gasoline Supply and Demand Balance



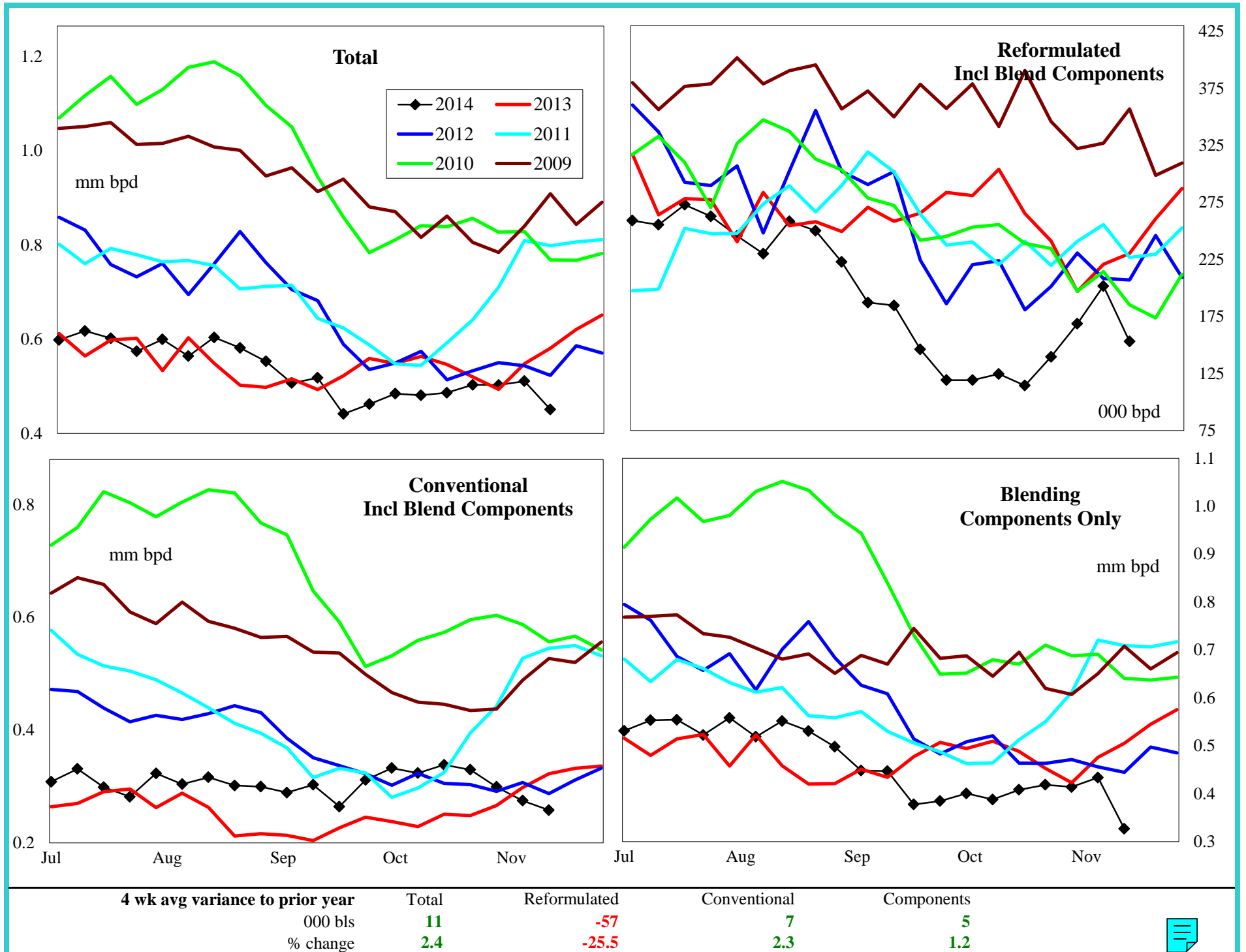
# United States Reformulated Gasoline Supply



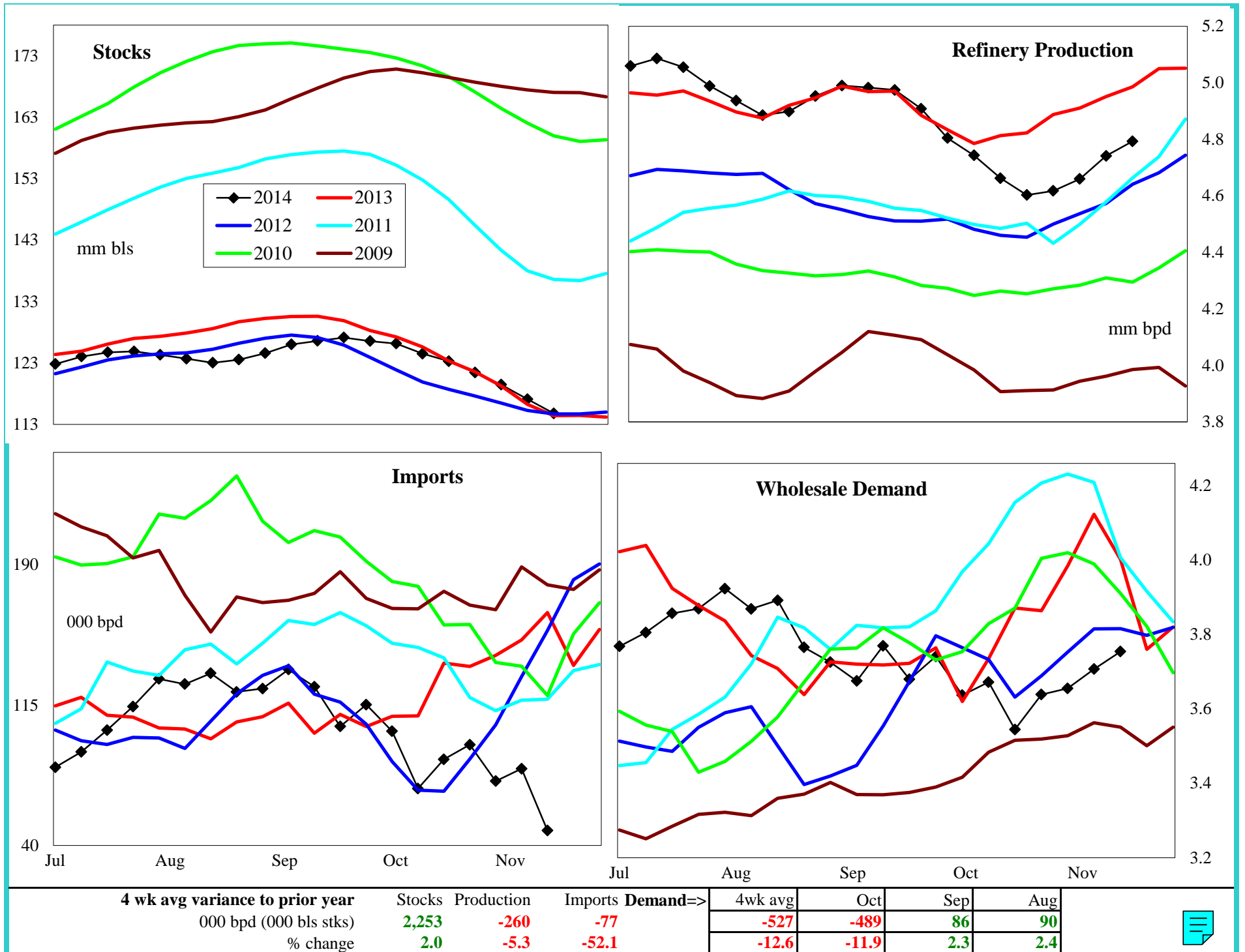
# United States Conventional Gasoline Supply



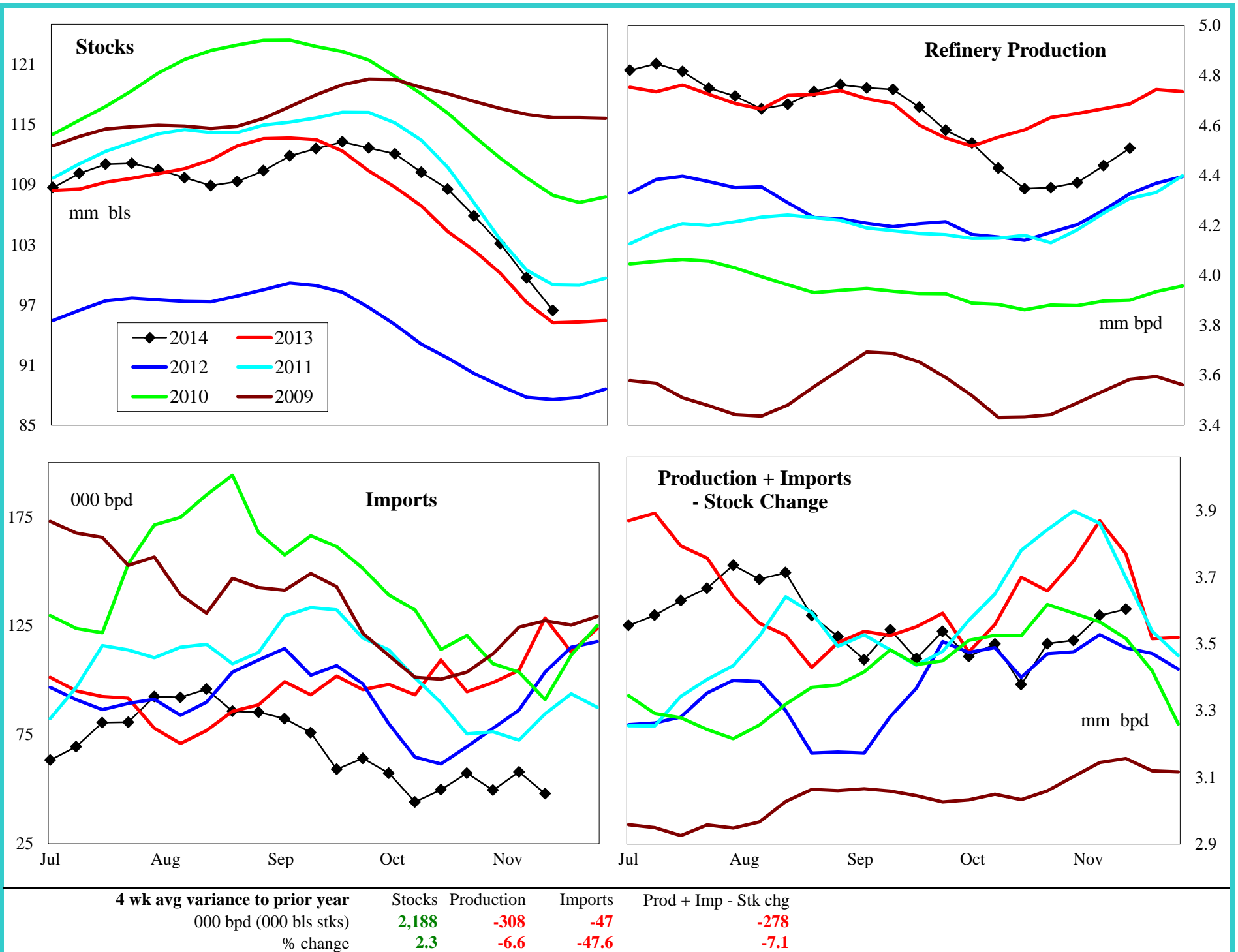
# United States Gasoline Imports by Type



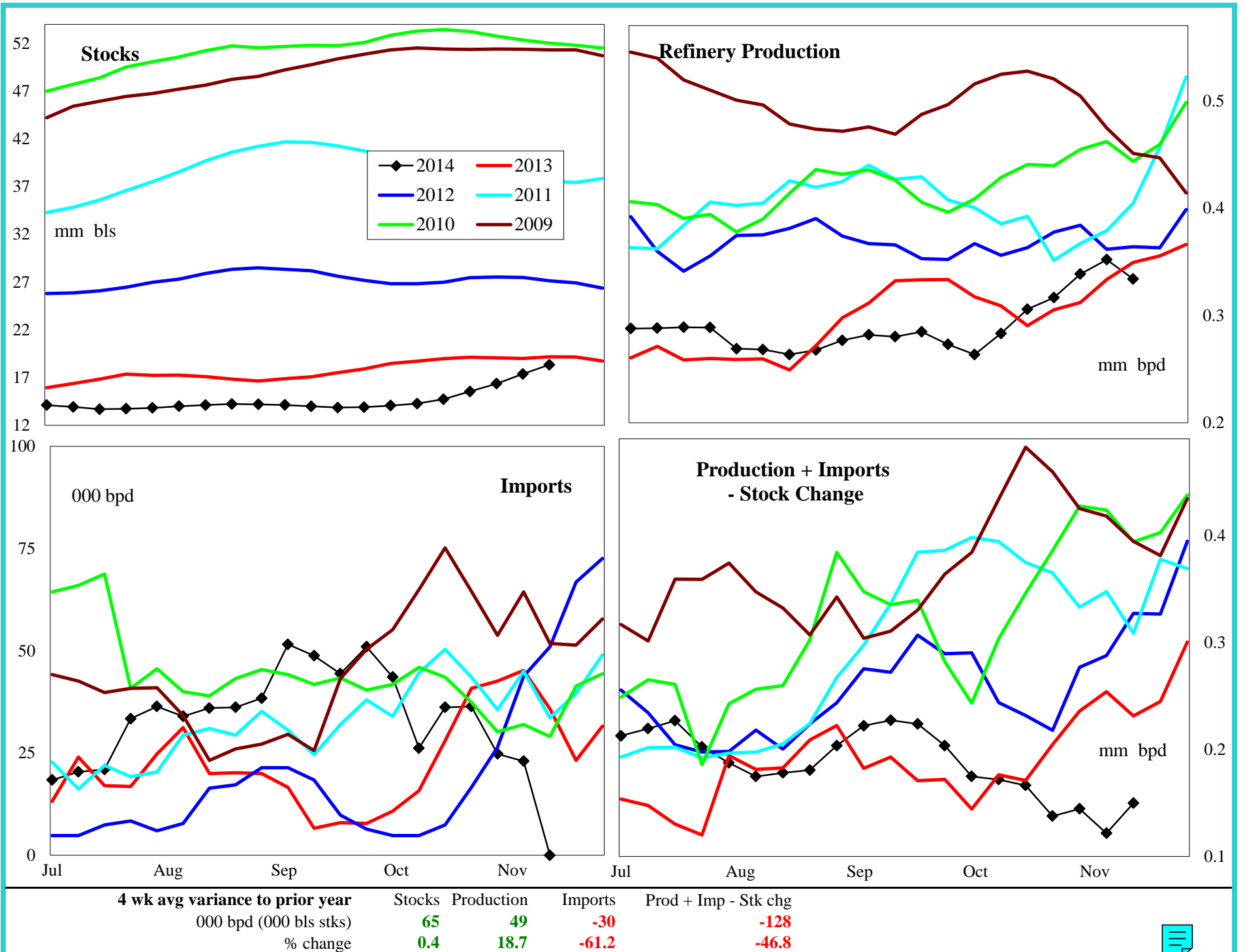
# United States Distillate Supply and Demand Balance



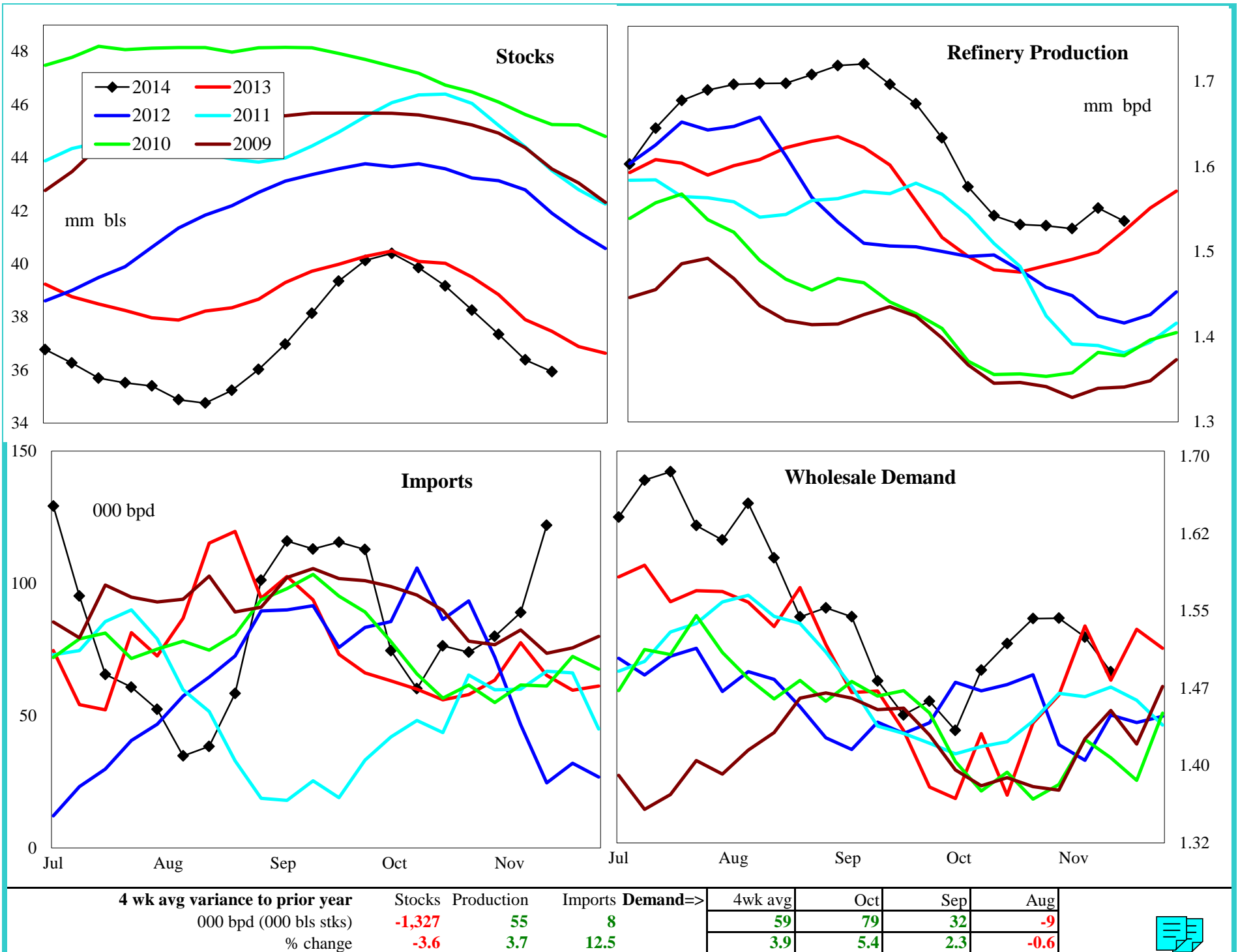
# United States Low Sulfur Distillate Supply



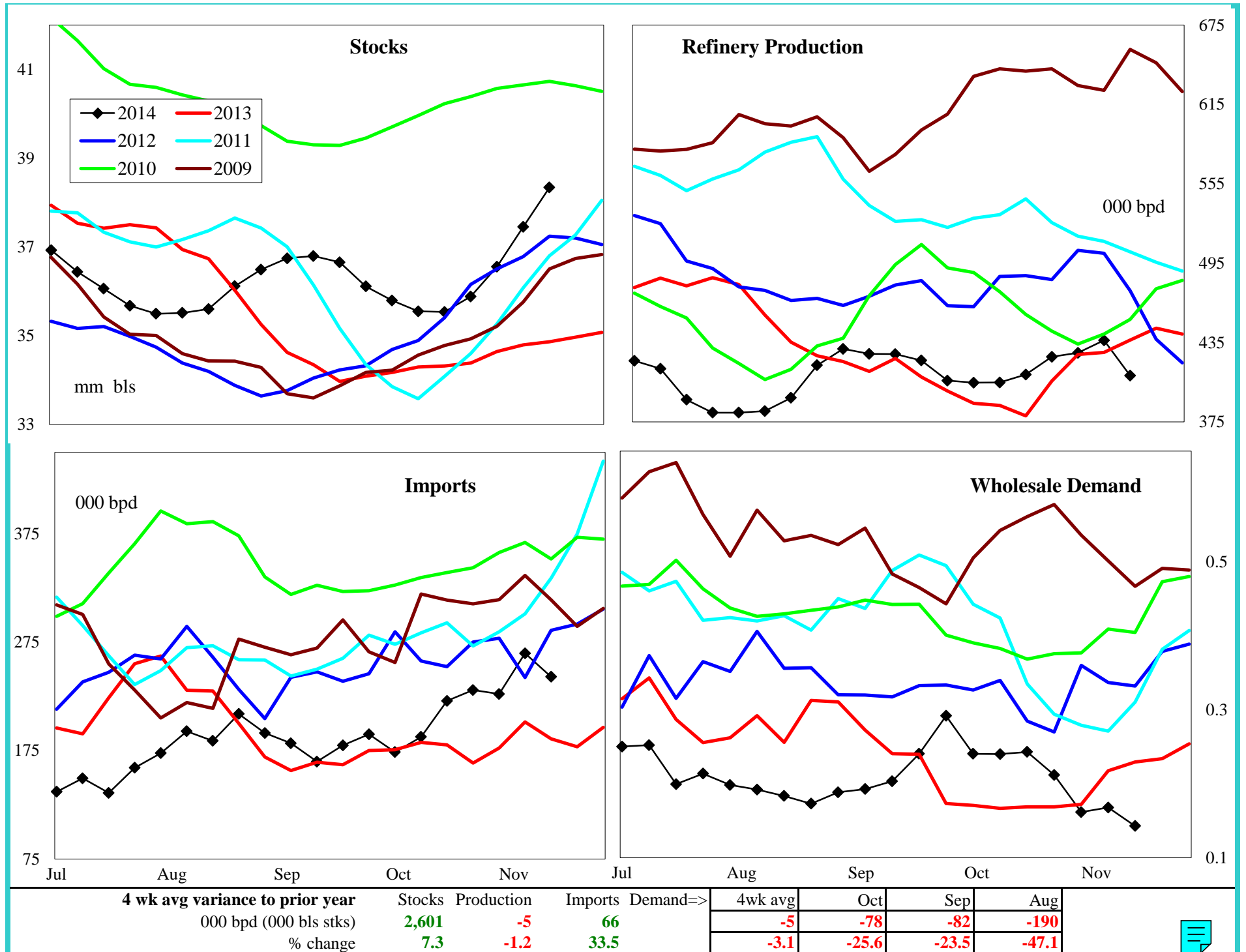
# United States High Sulfur Distillate Supply



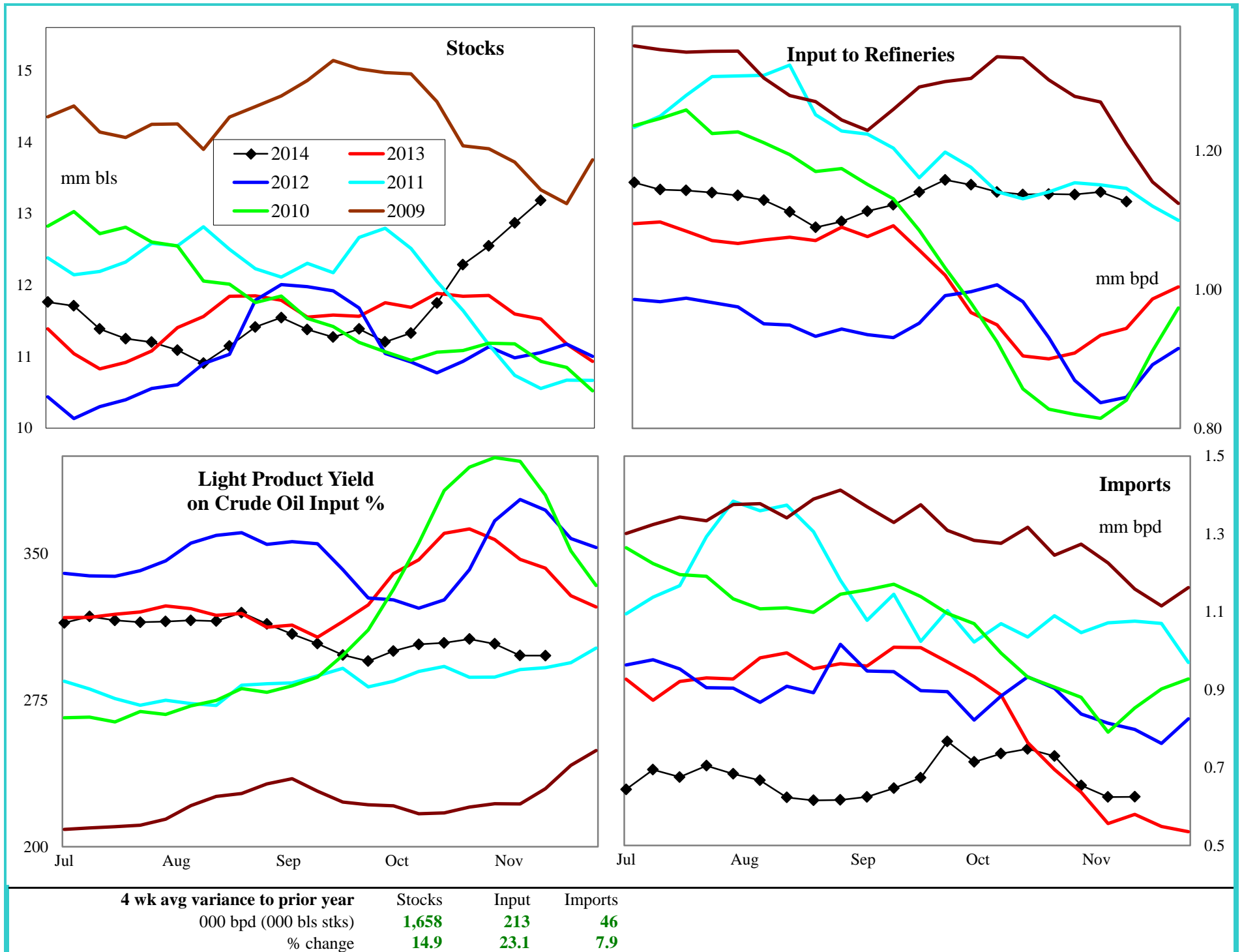
# United States Jet Fuel Supply and Demand Balance



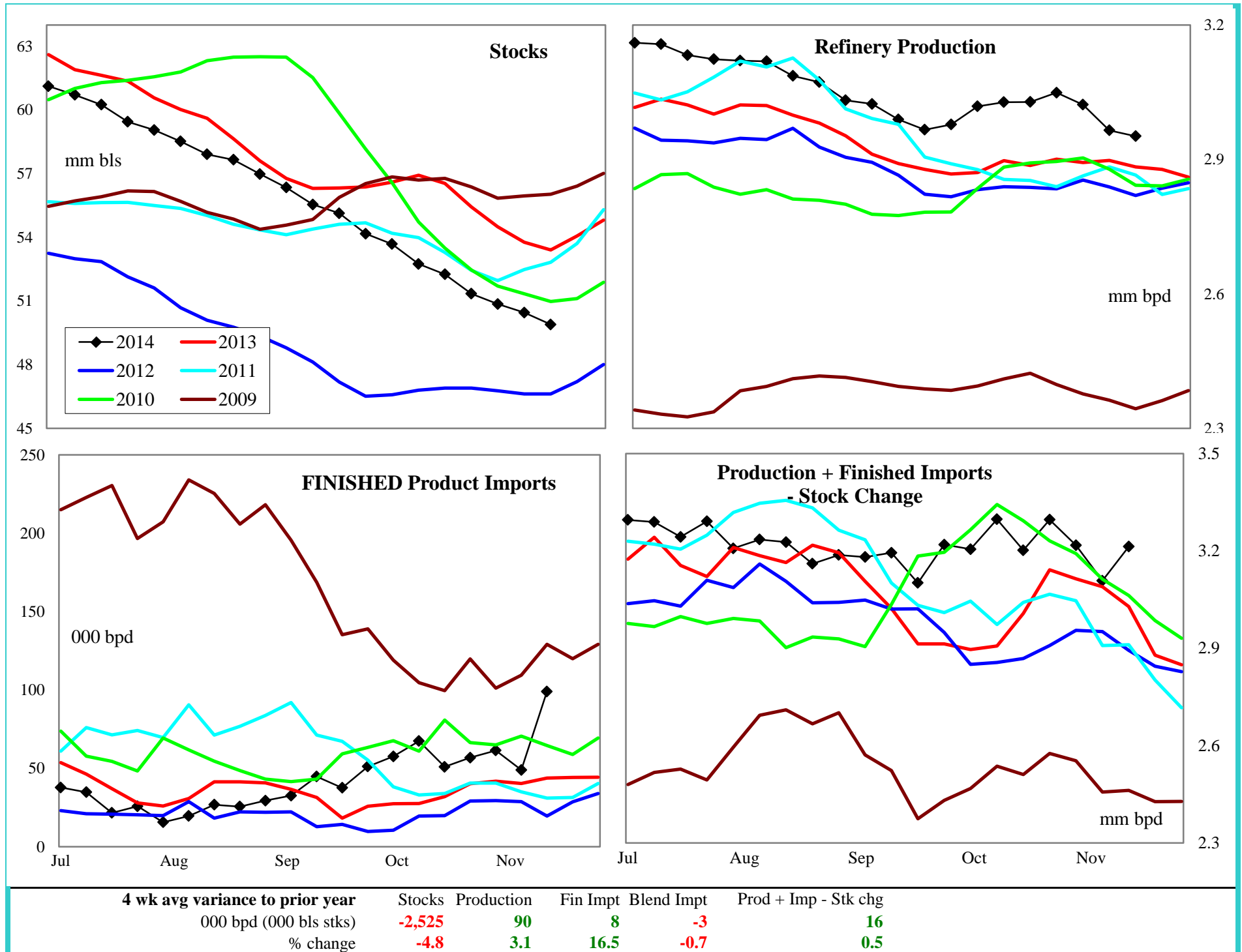
# United States Residual Fuel Oil Supply and Demand Balance



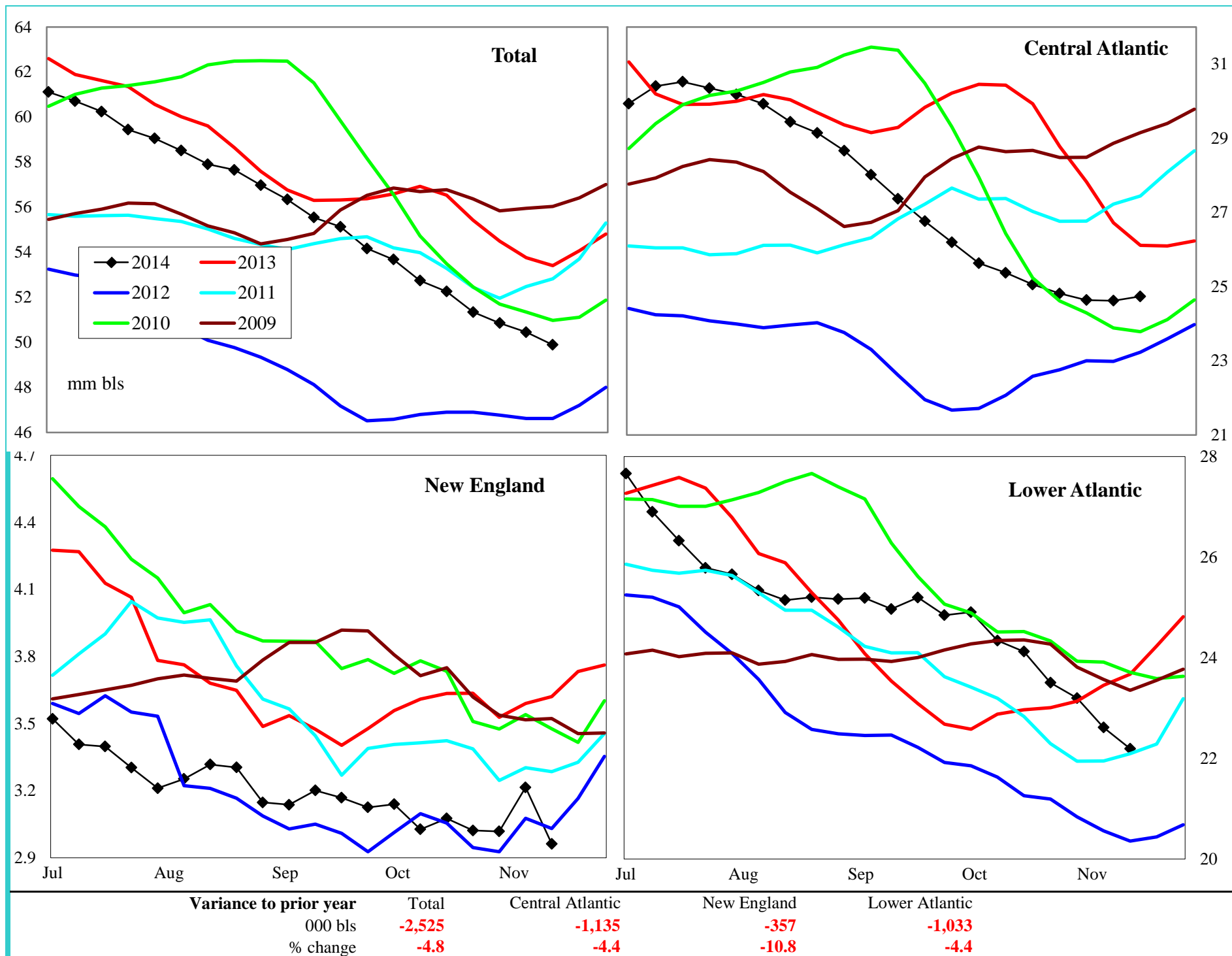
# PADD 1 Crude Oil Supply and Refining



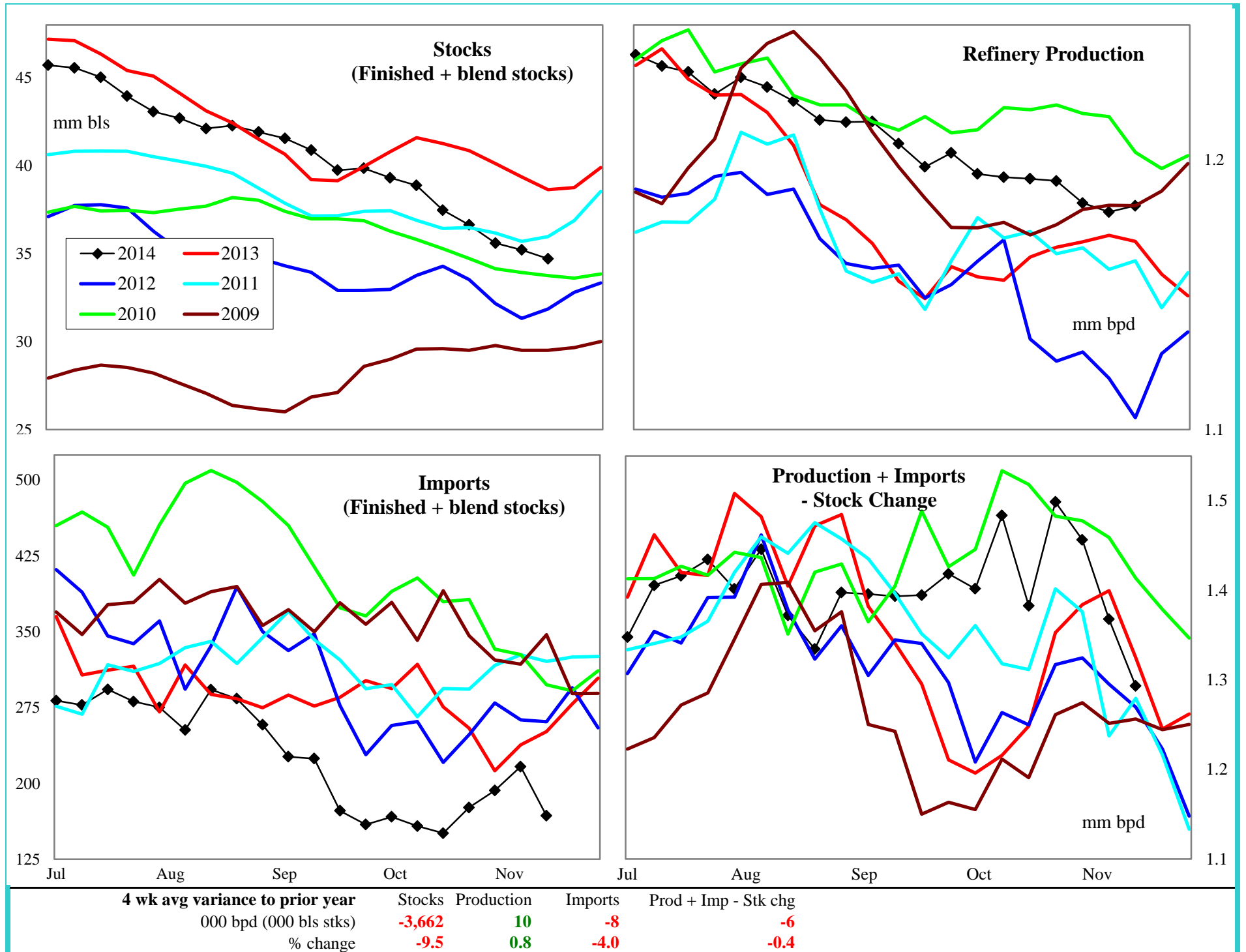
# PADD 1 Gasoline Supply



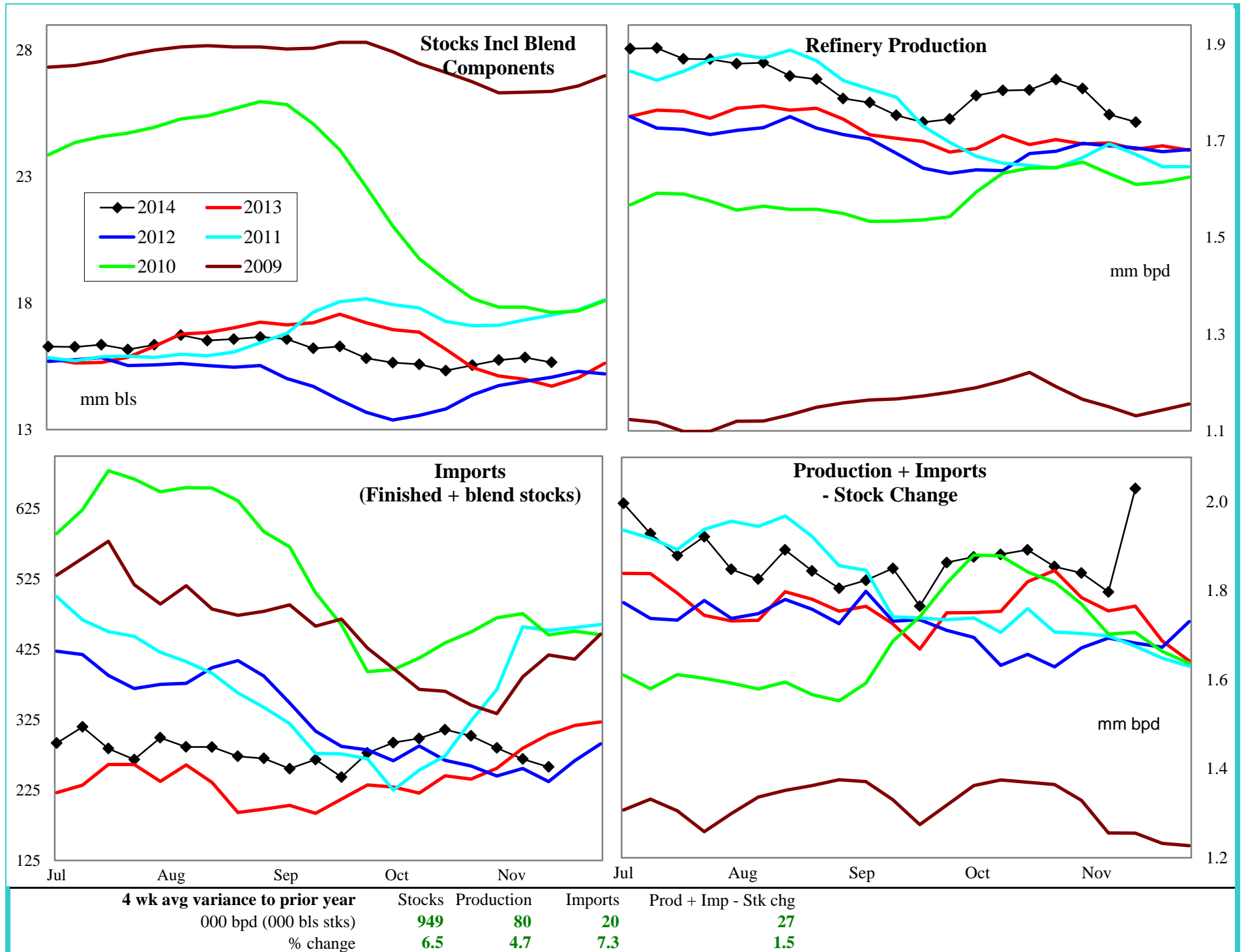
# PADD 1 Gasoline Stocks by Region



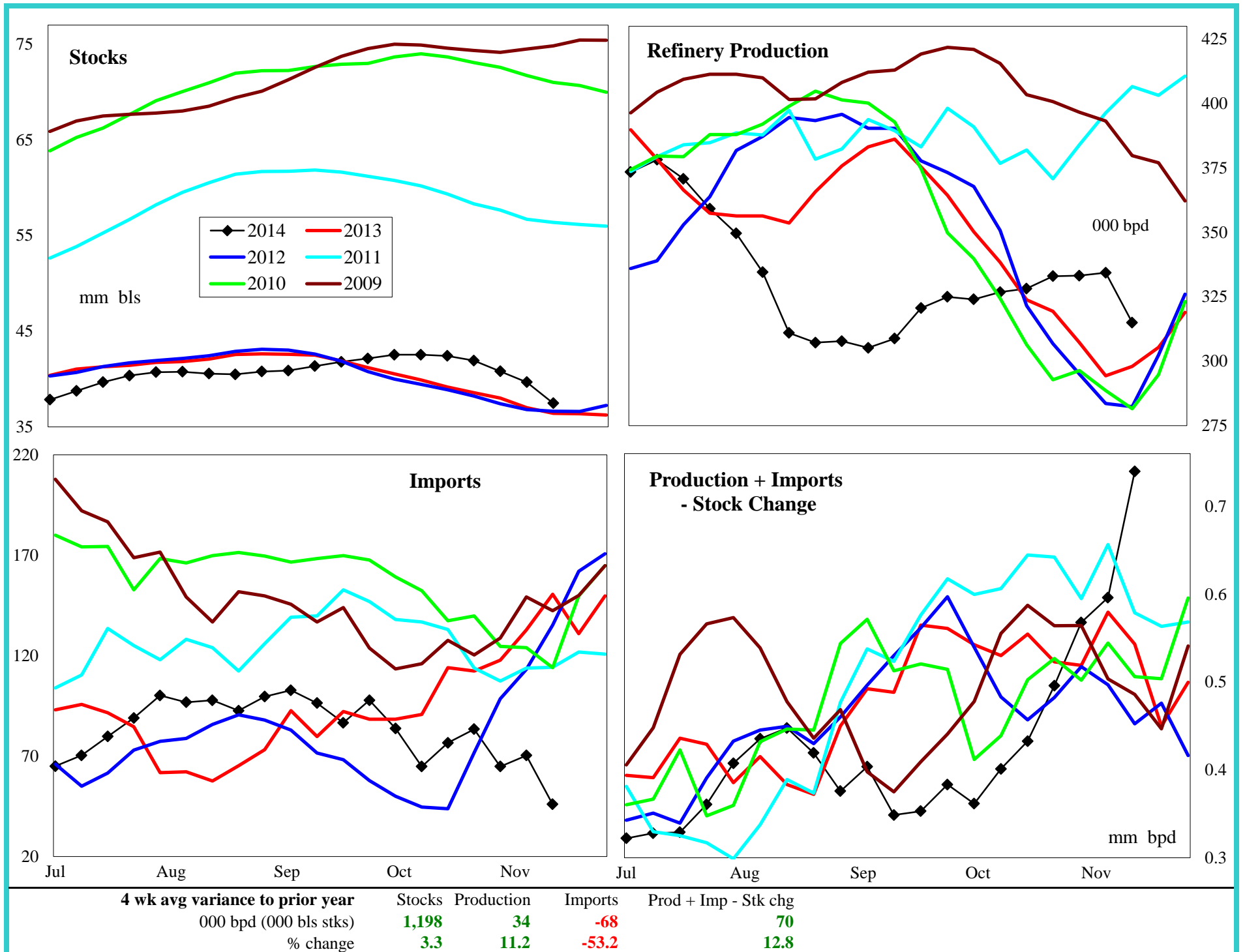
# PADD 1 Reformulated Gasoline Supply



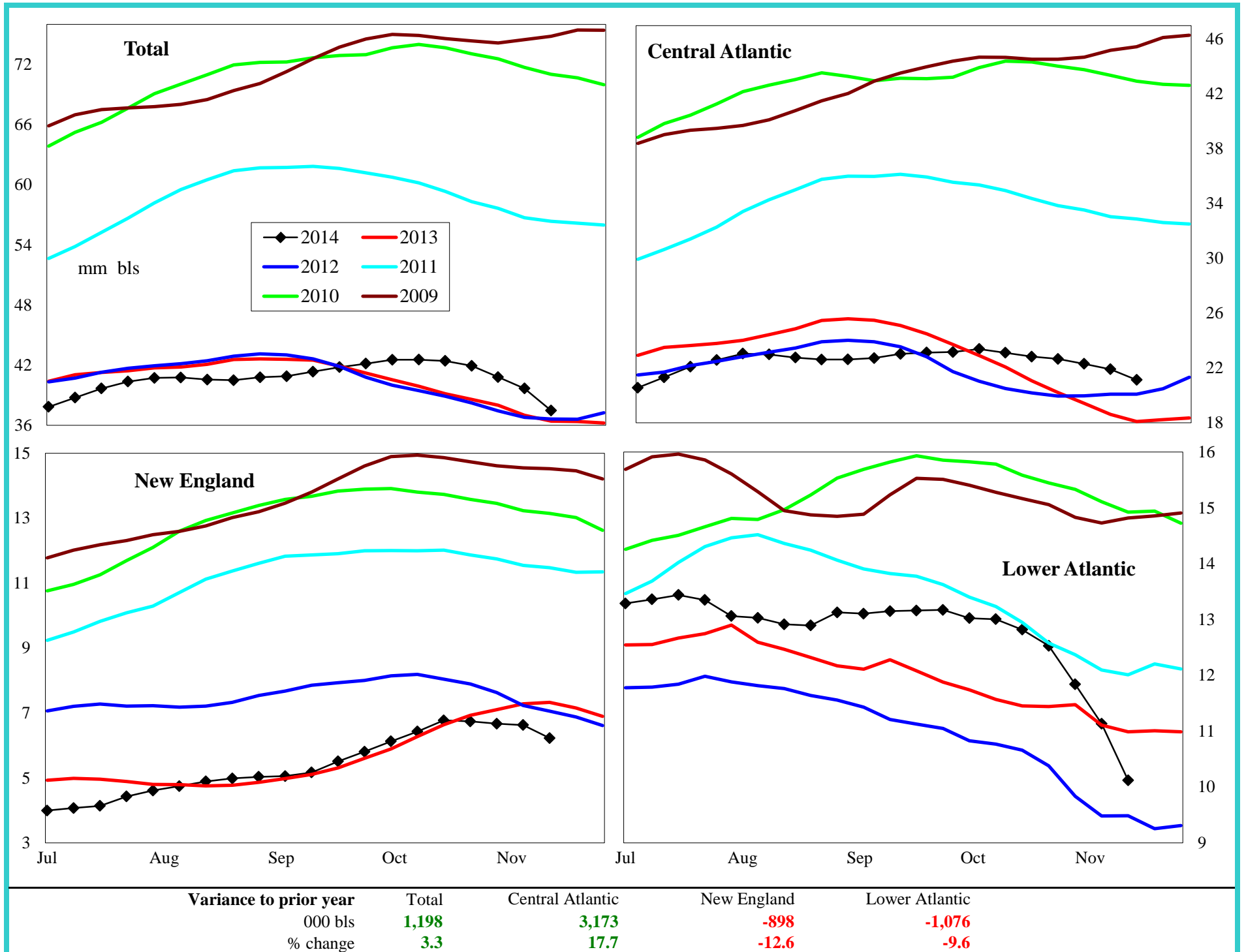
# PADD 1 Conventional Gasoline Supply



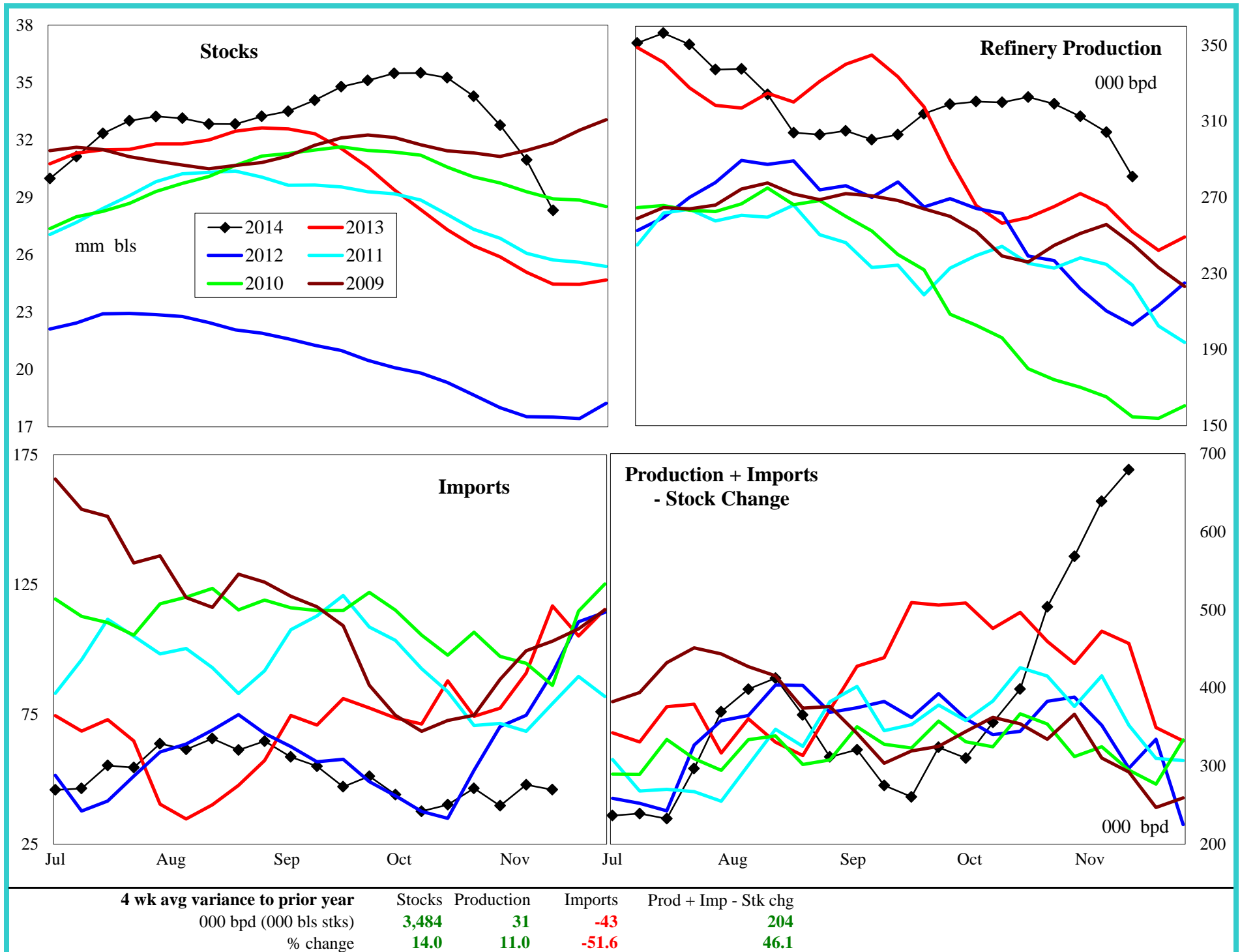
## PADD 1 Distillate Supply



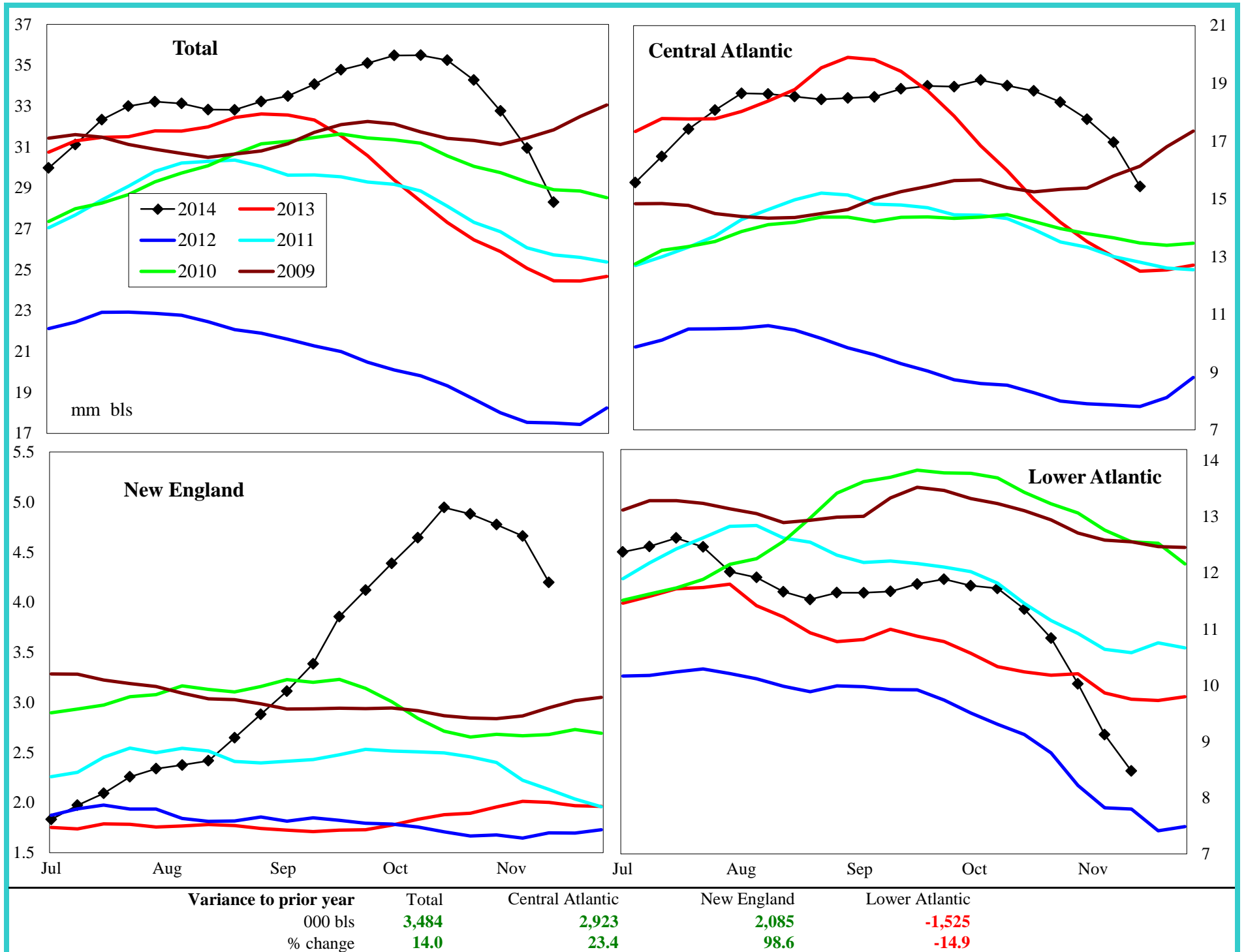
# PADD 1 Distillate Stocks by Region



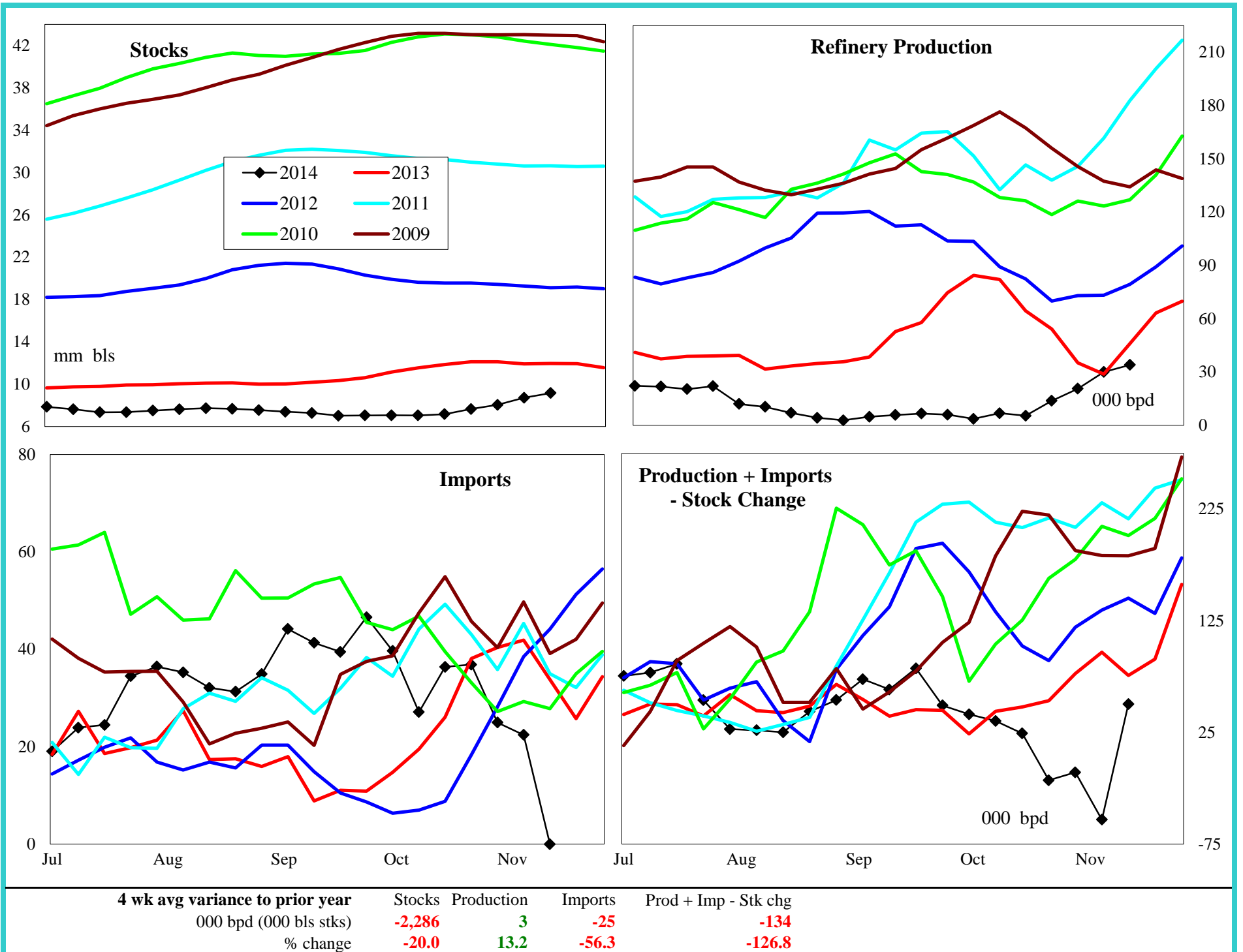
# PADD 1 Low Sulfur Distillate Supply



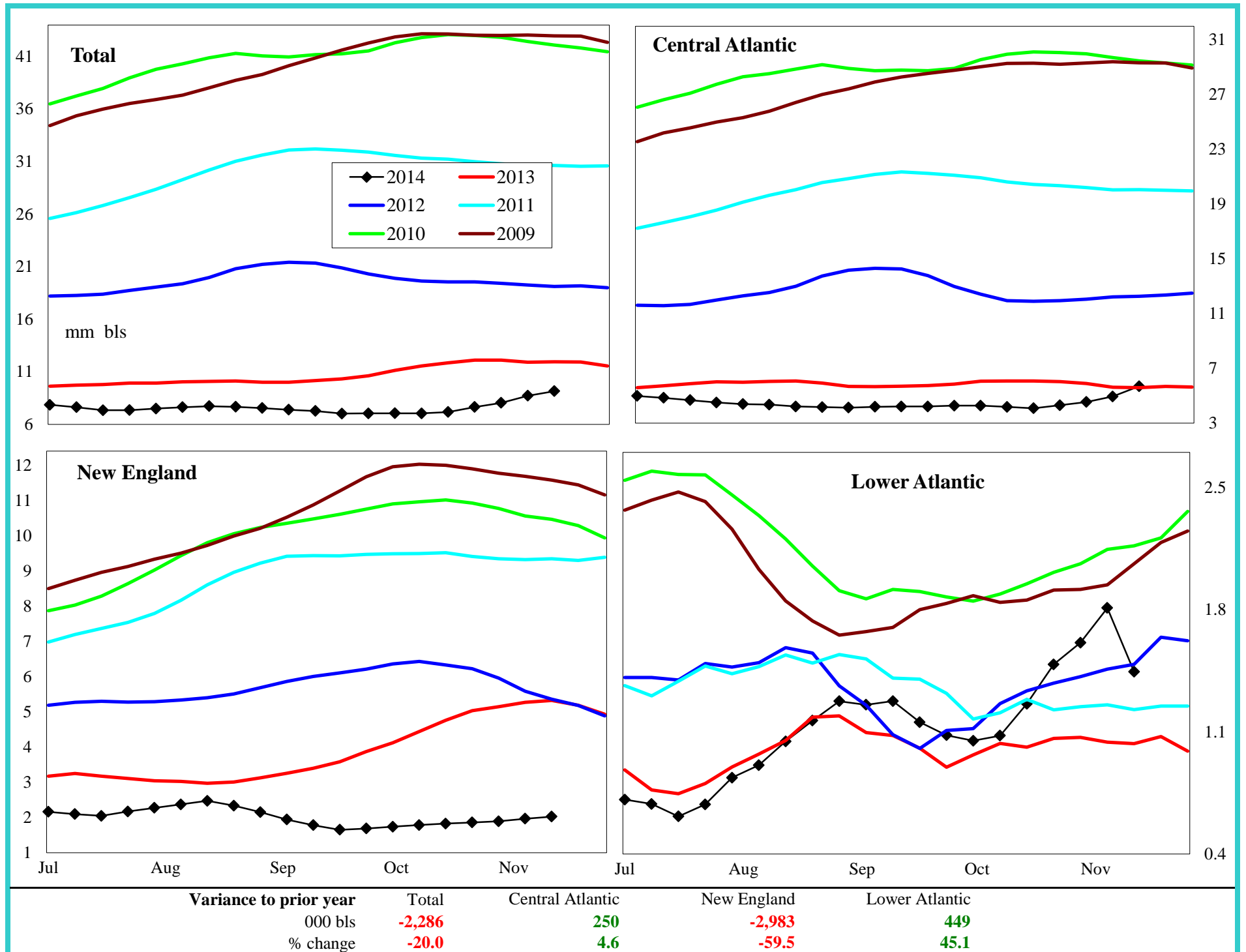
# PADD 1 Low Sulfur Distillate Stocks by Region



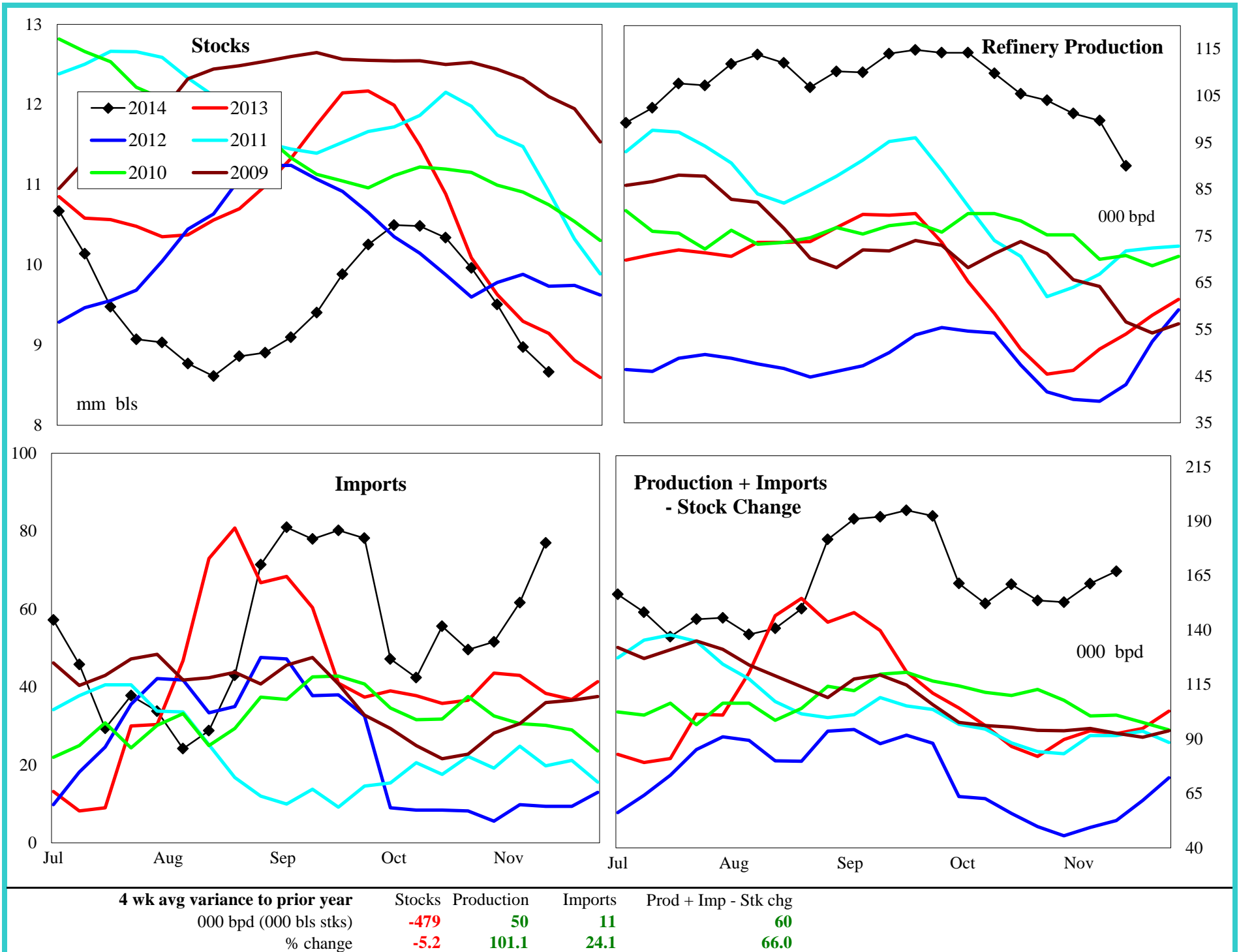
# PADD 1 High Sulfur Distillate Supply



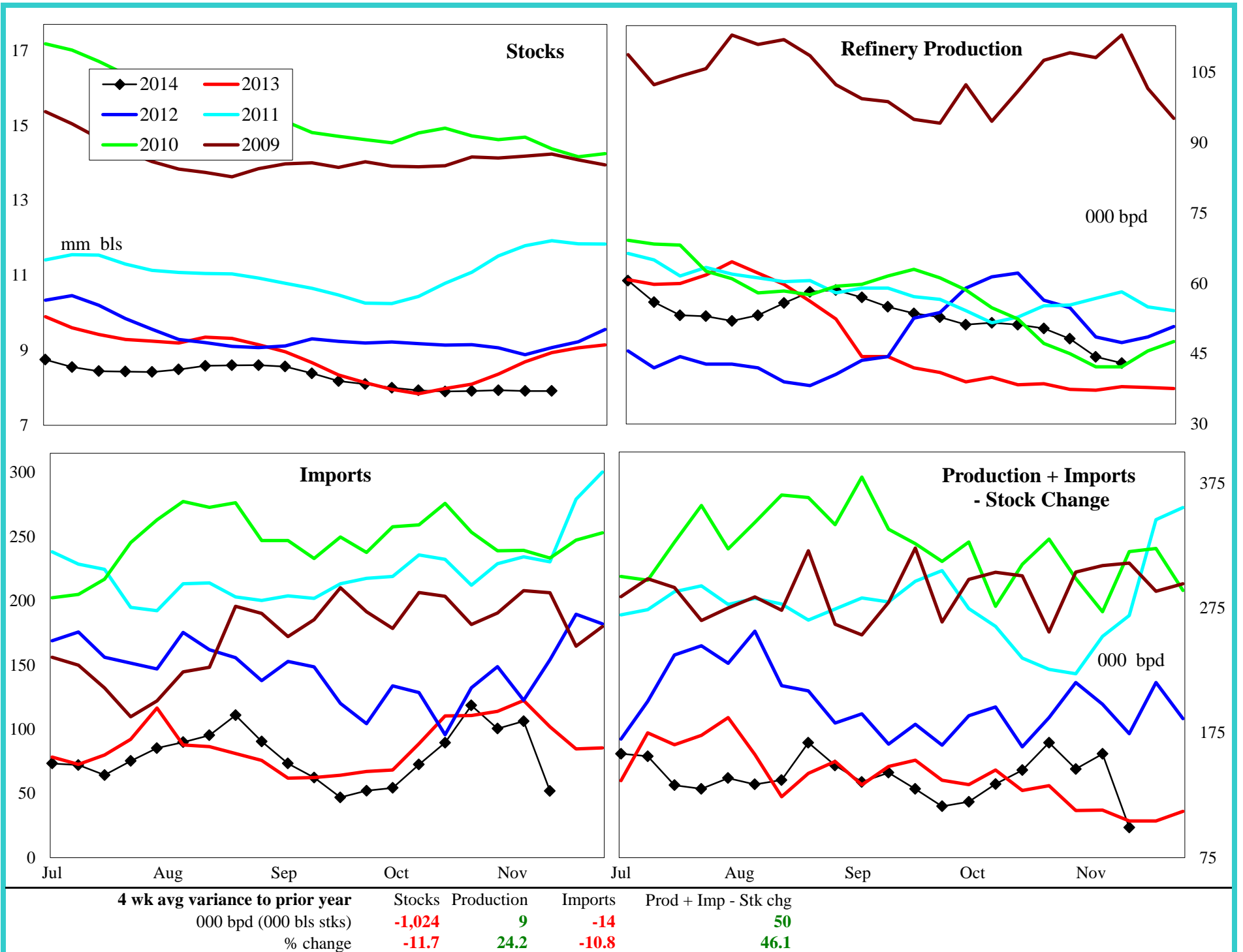
# PADD 1 High Sulfur Distillate Stocks by Region



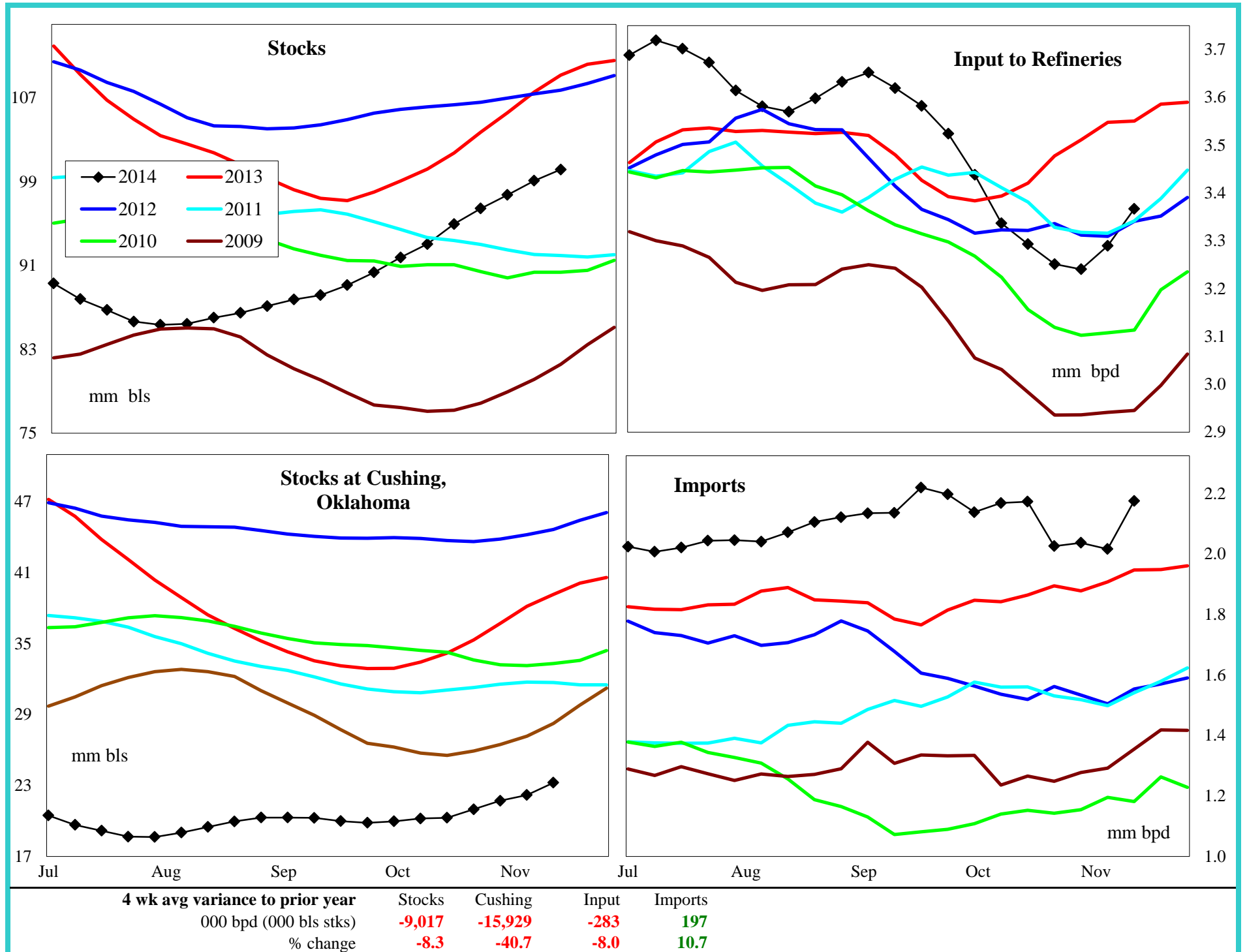
# PADD 1 Jet Fuel Supply



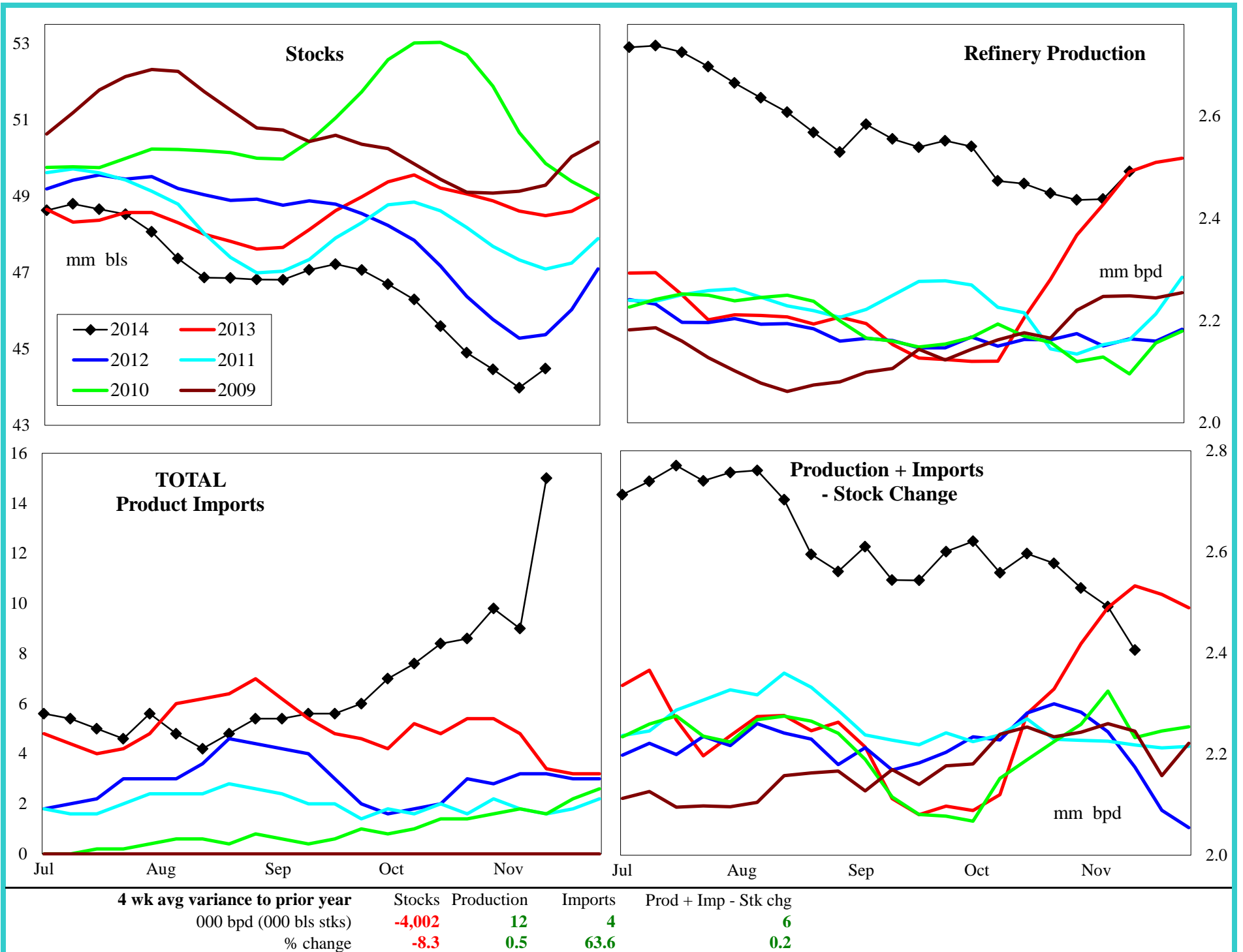
# PADD 1 Residual Fuel Oil Supply



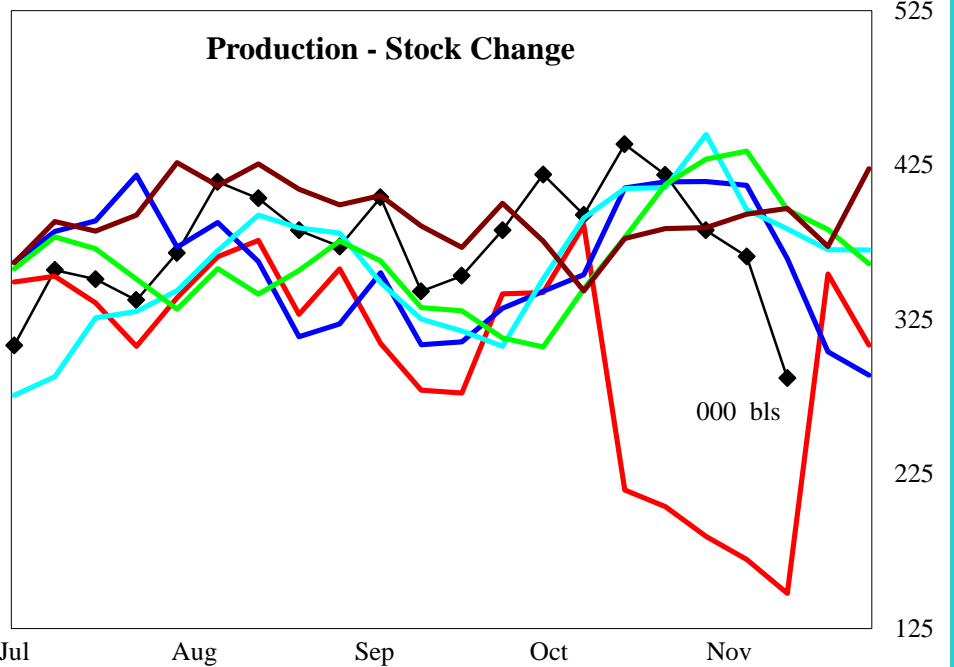
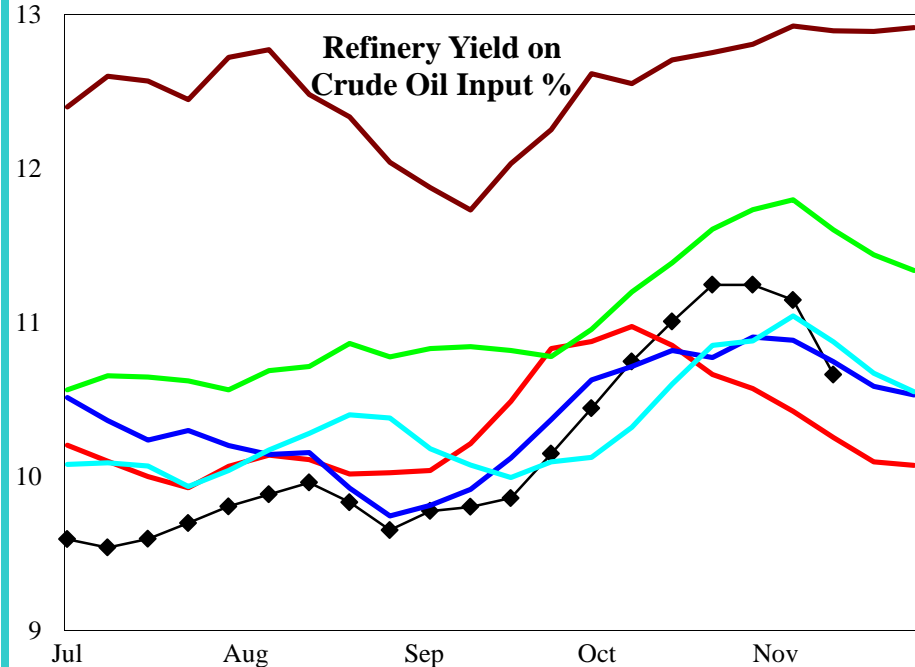
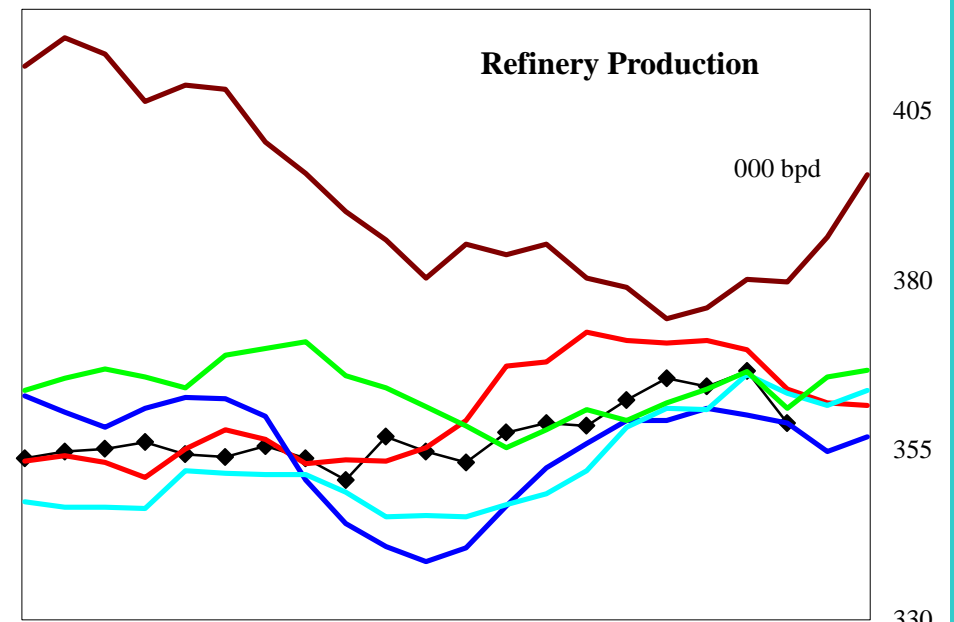
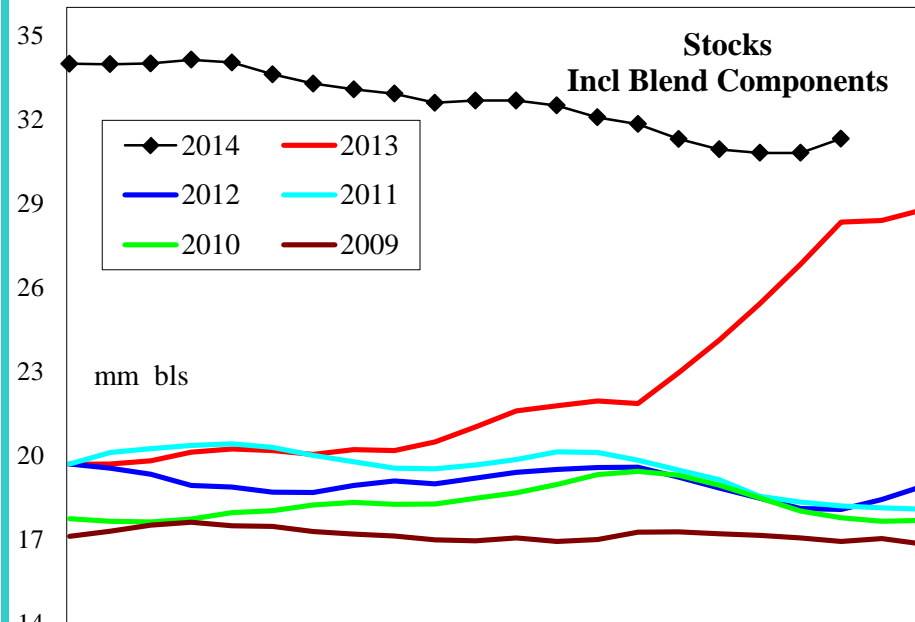
# PADD 2 Crude Oil Supply and Refining



# PADD 2 Gasoline Supply



# PADD 2 Reformulated Gasoline Supply



**4 wk avg variance to prior year**

000 bpd (000 bbls stks)

% change

Stocks

2,970

10.5

Production

-5

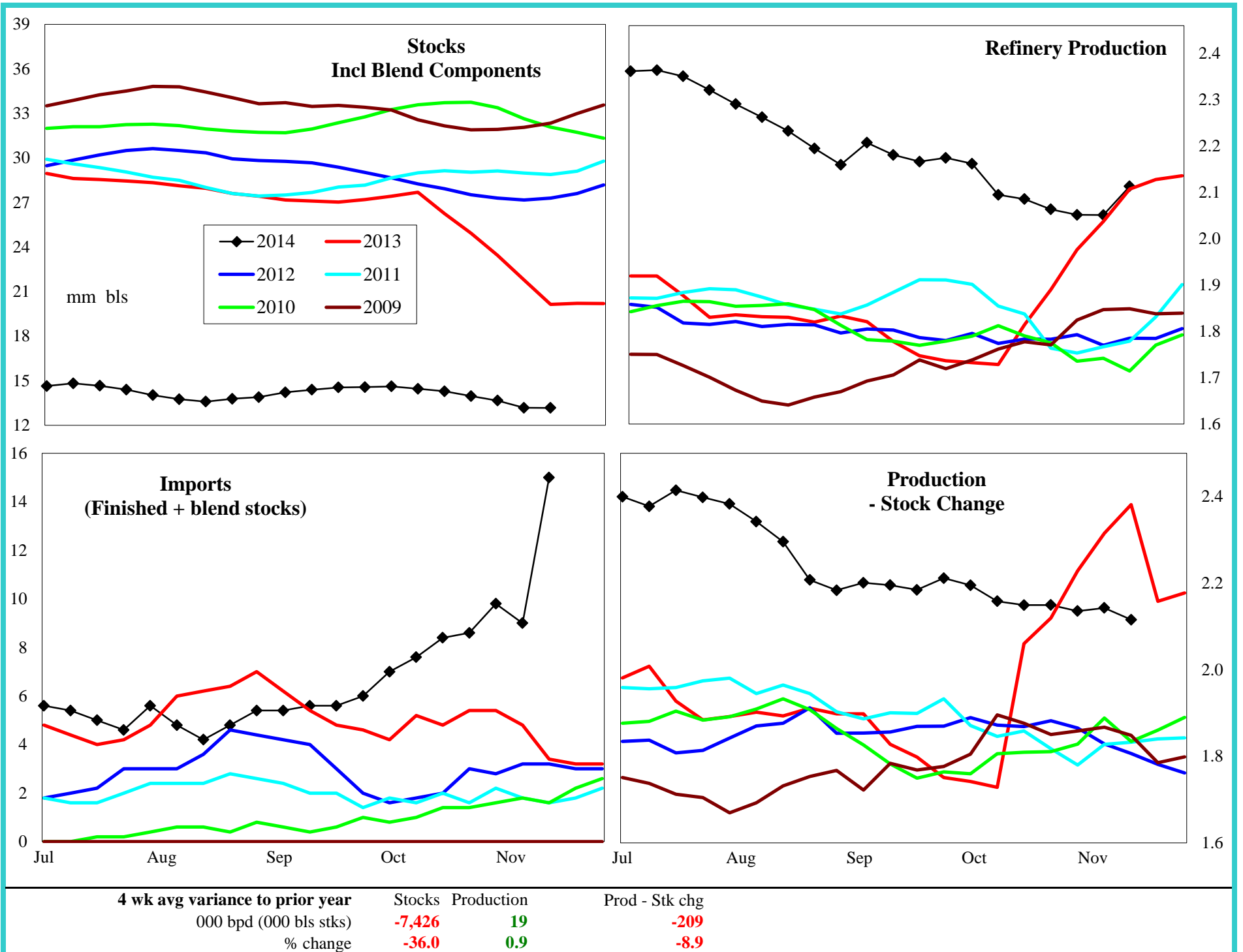
-1.4

Prod - Stk chg

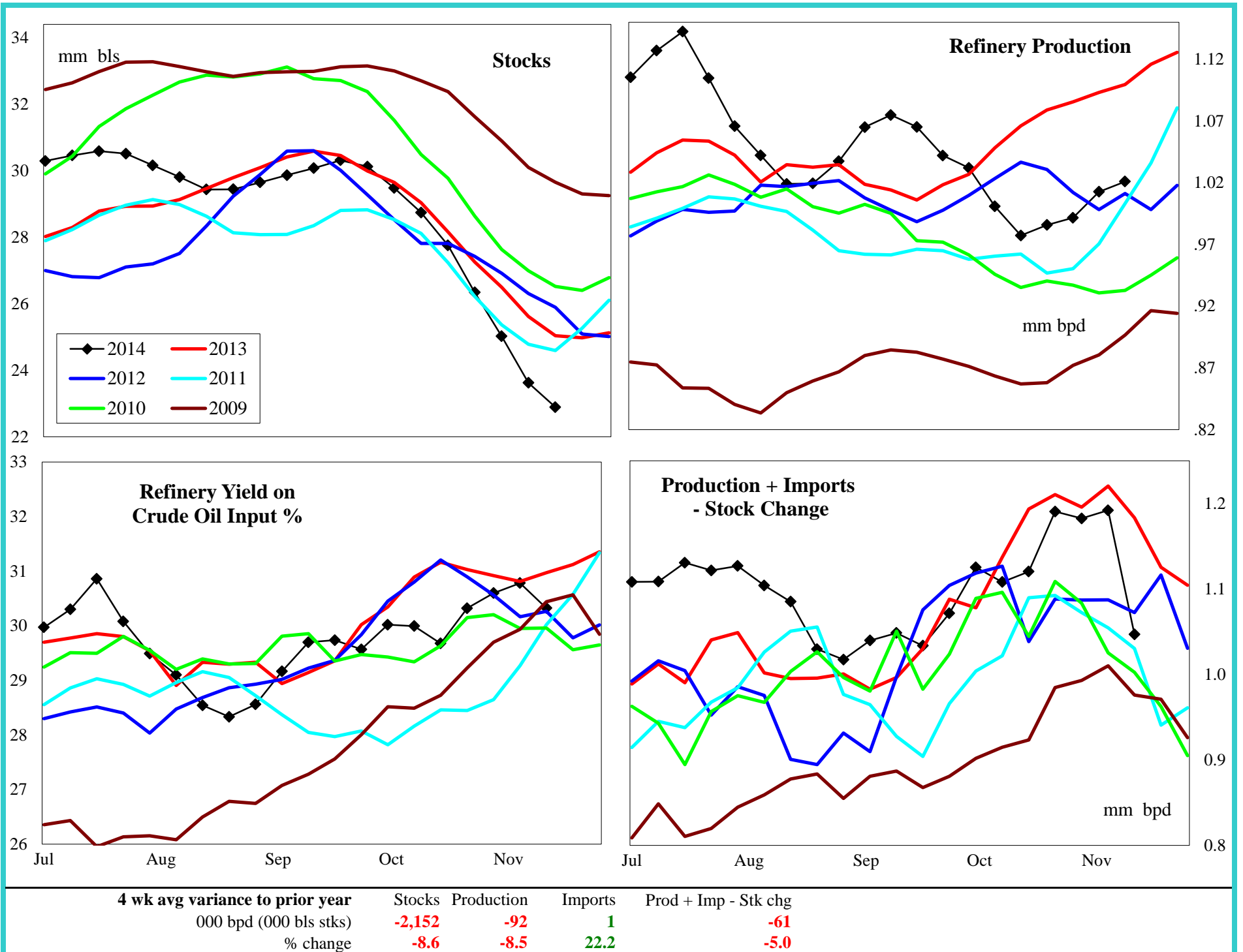
187

105.9

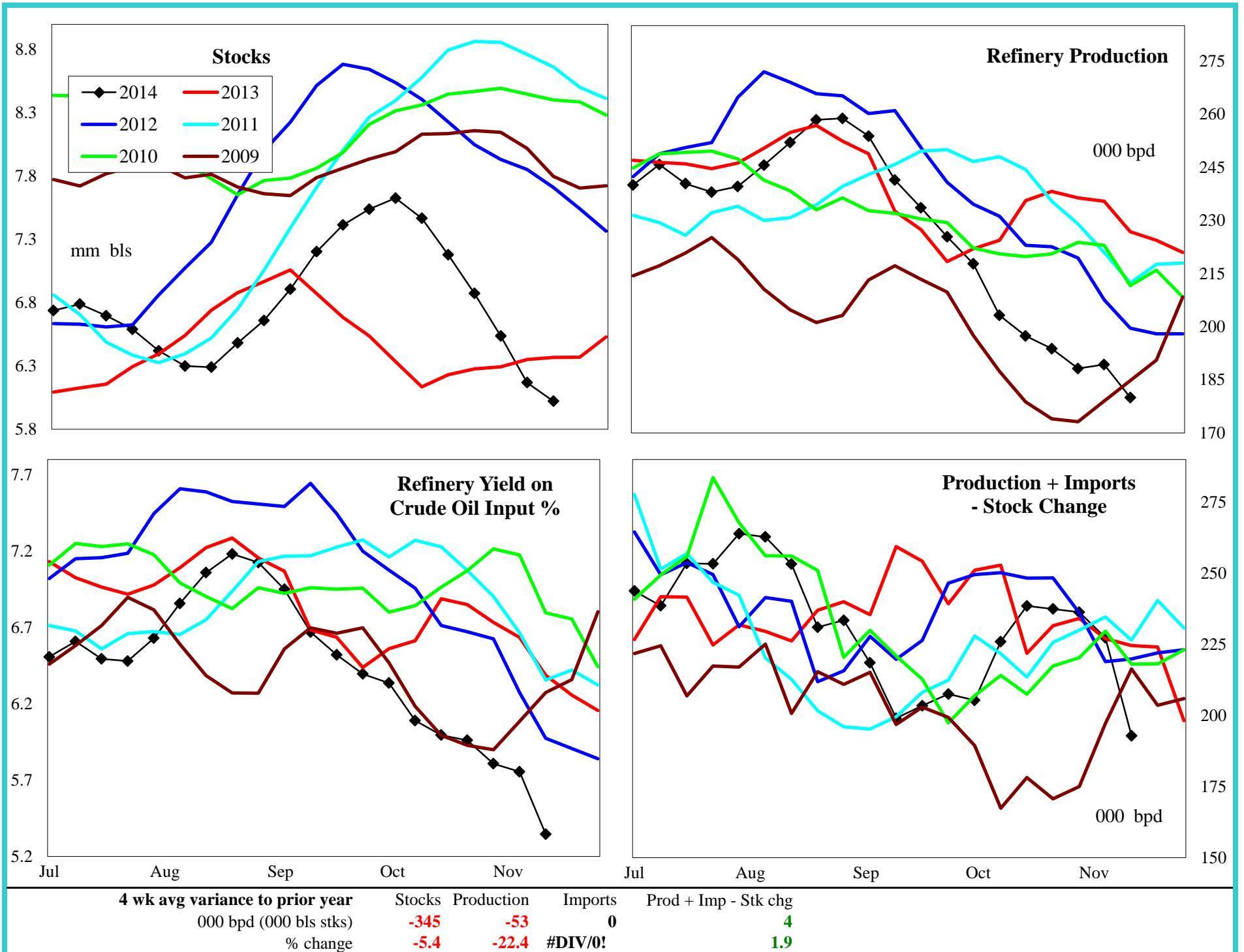
# PADD 2 Conventional Gasoline Supply



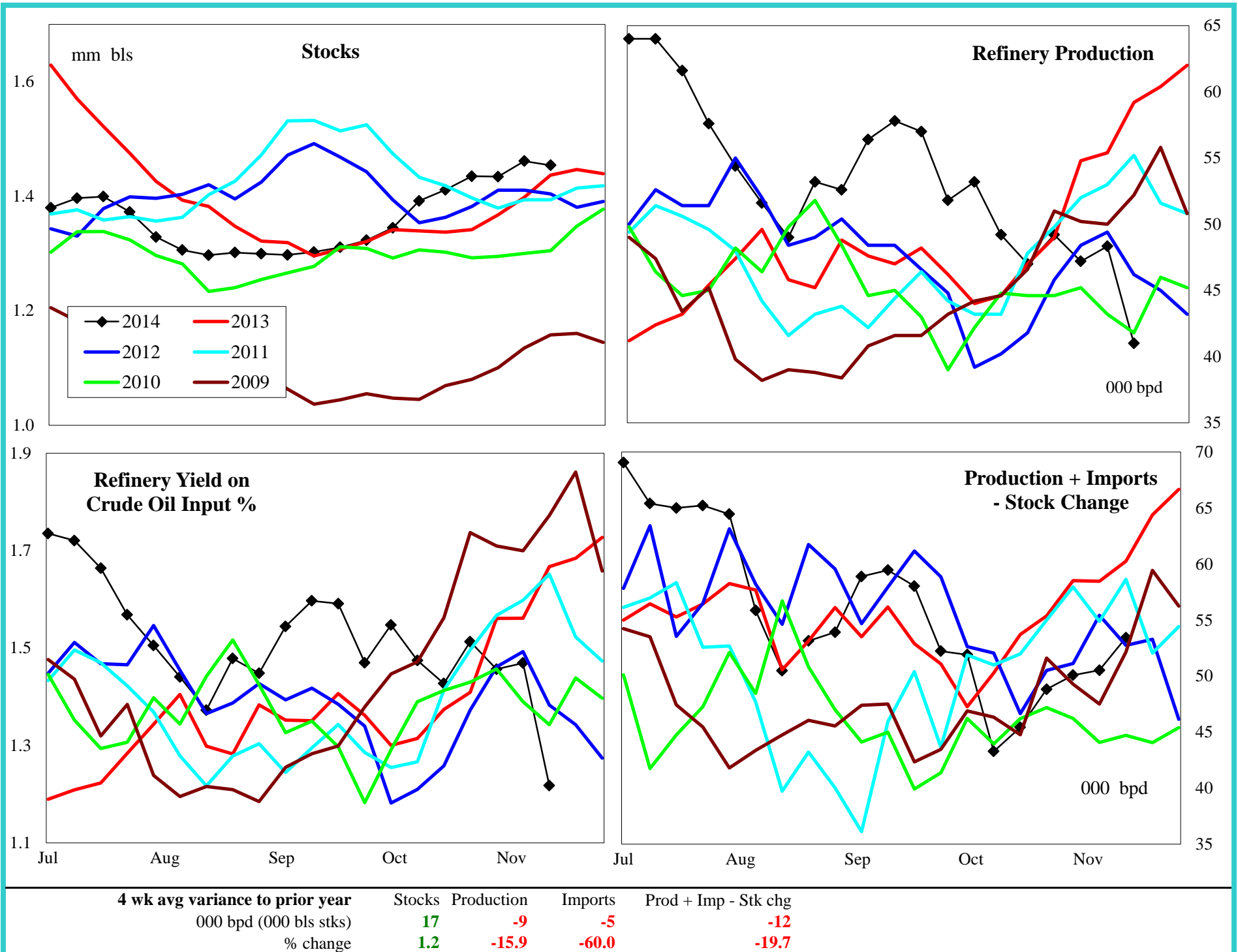
## PADD 2 Distillate Supply



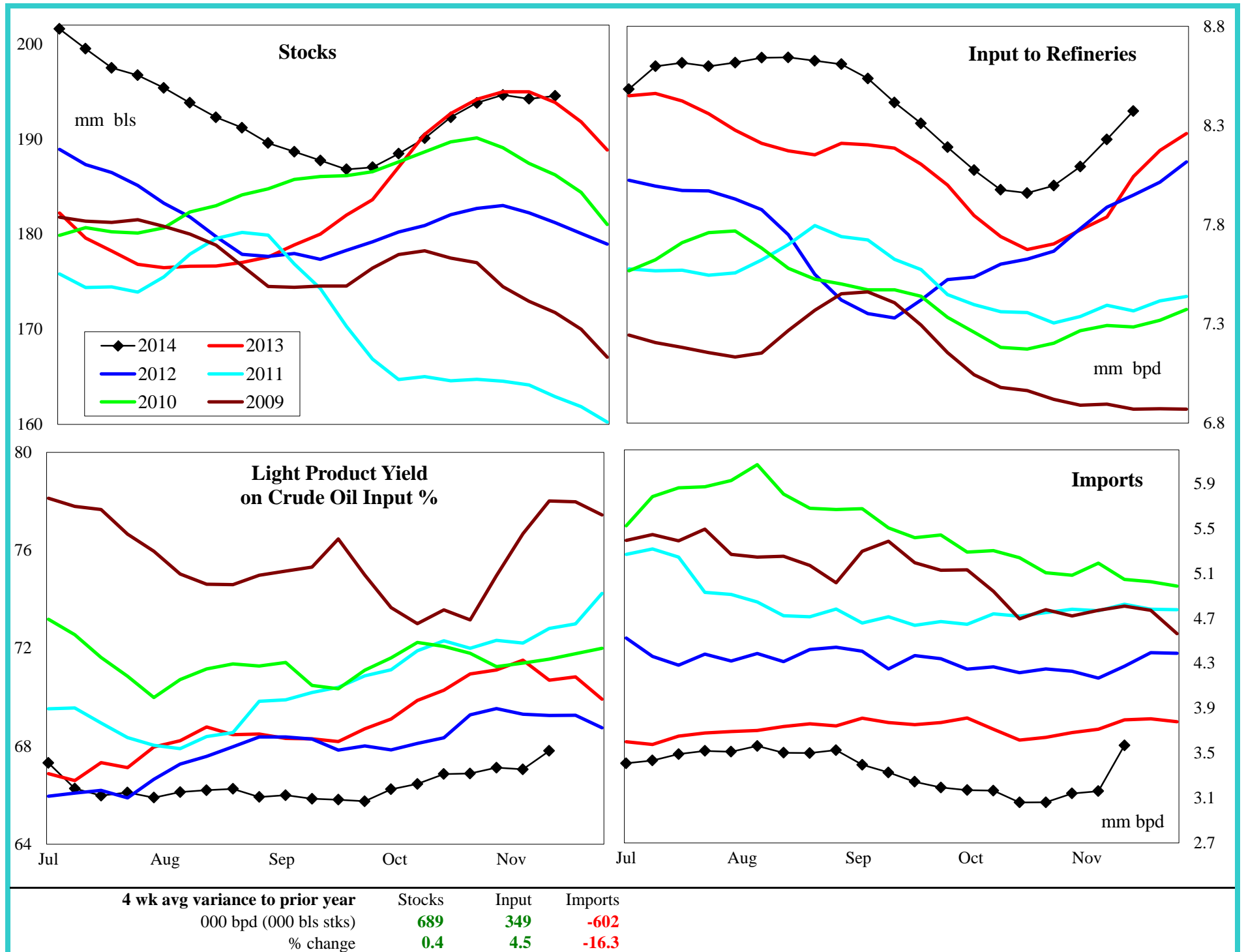
## PADD 2 Jet Fuel Supply



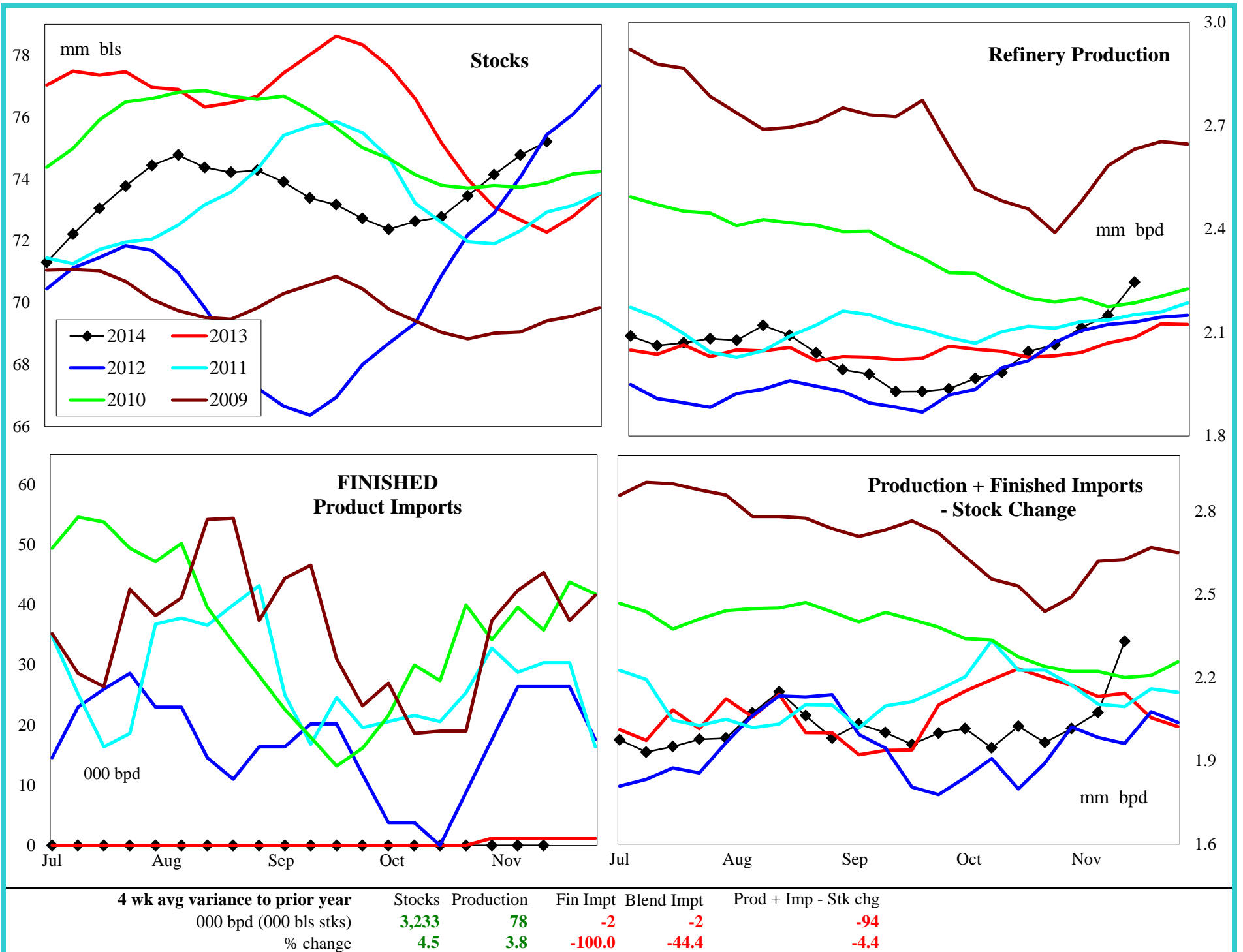
# PADD 2 Residual Fuel Oil Supply



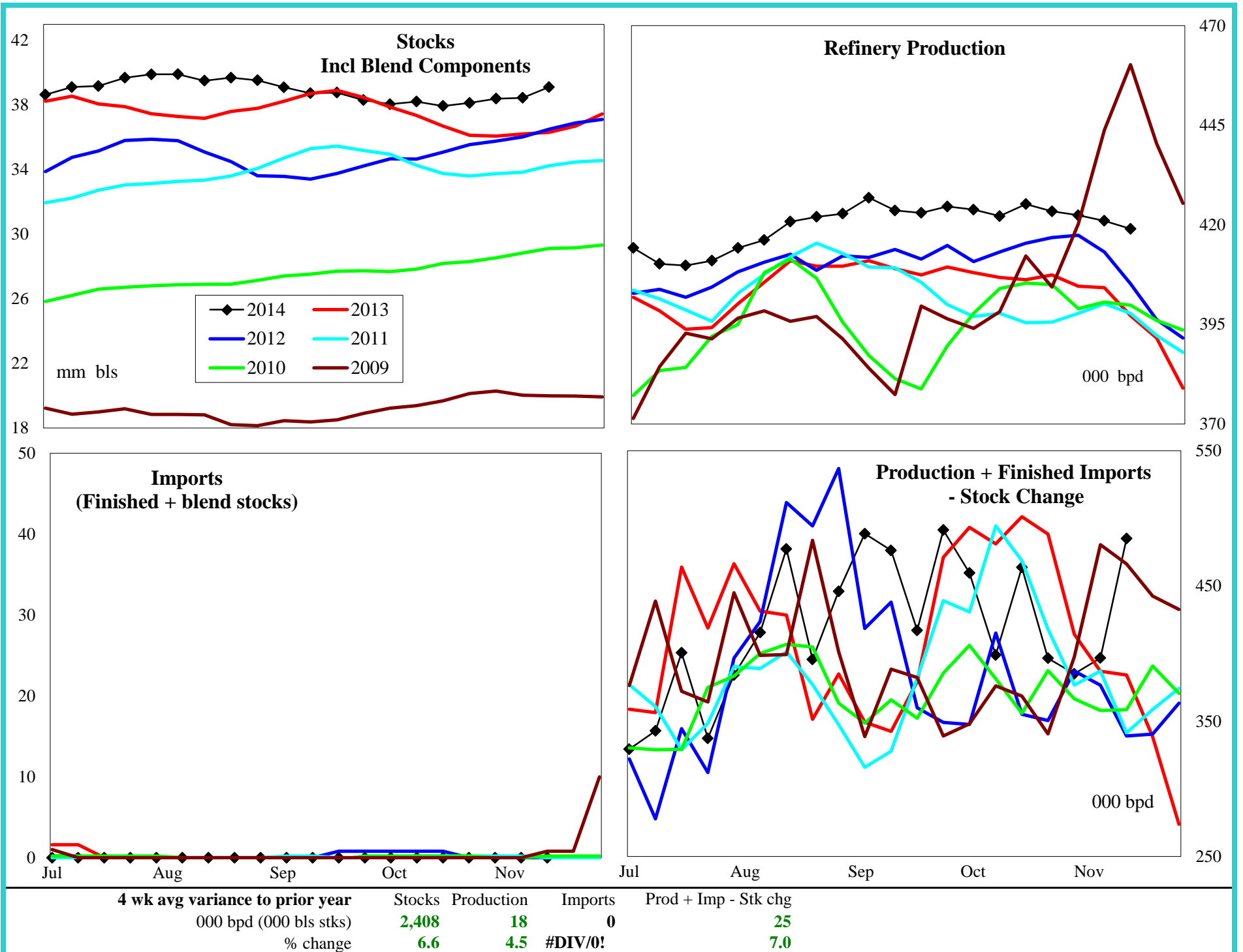
# PADD 3 Crude Oil Supply and Refining



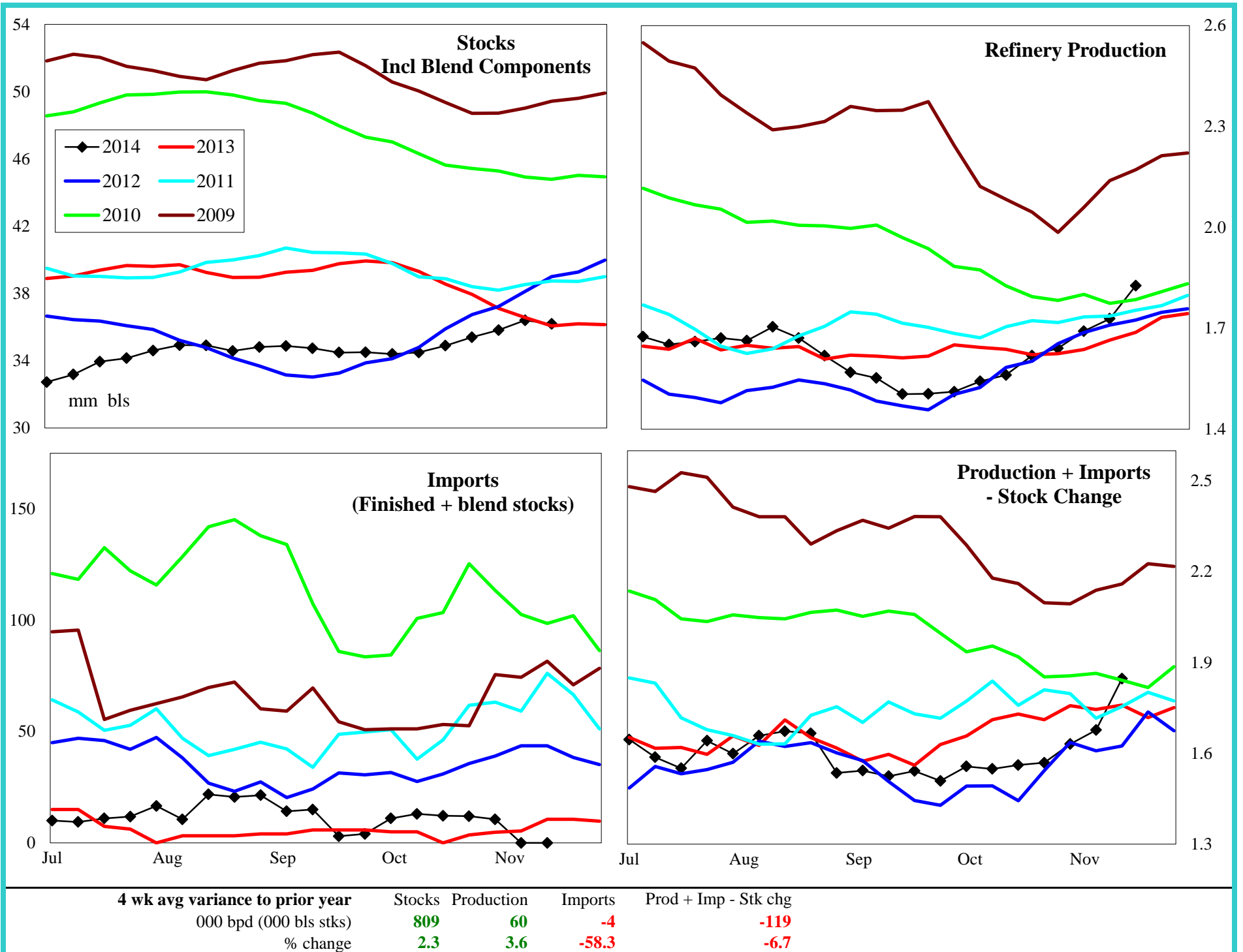
## PADD 3 Gasoline Supply



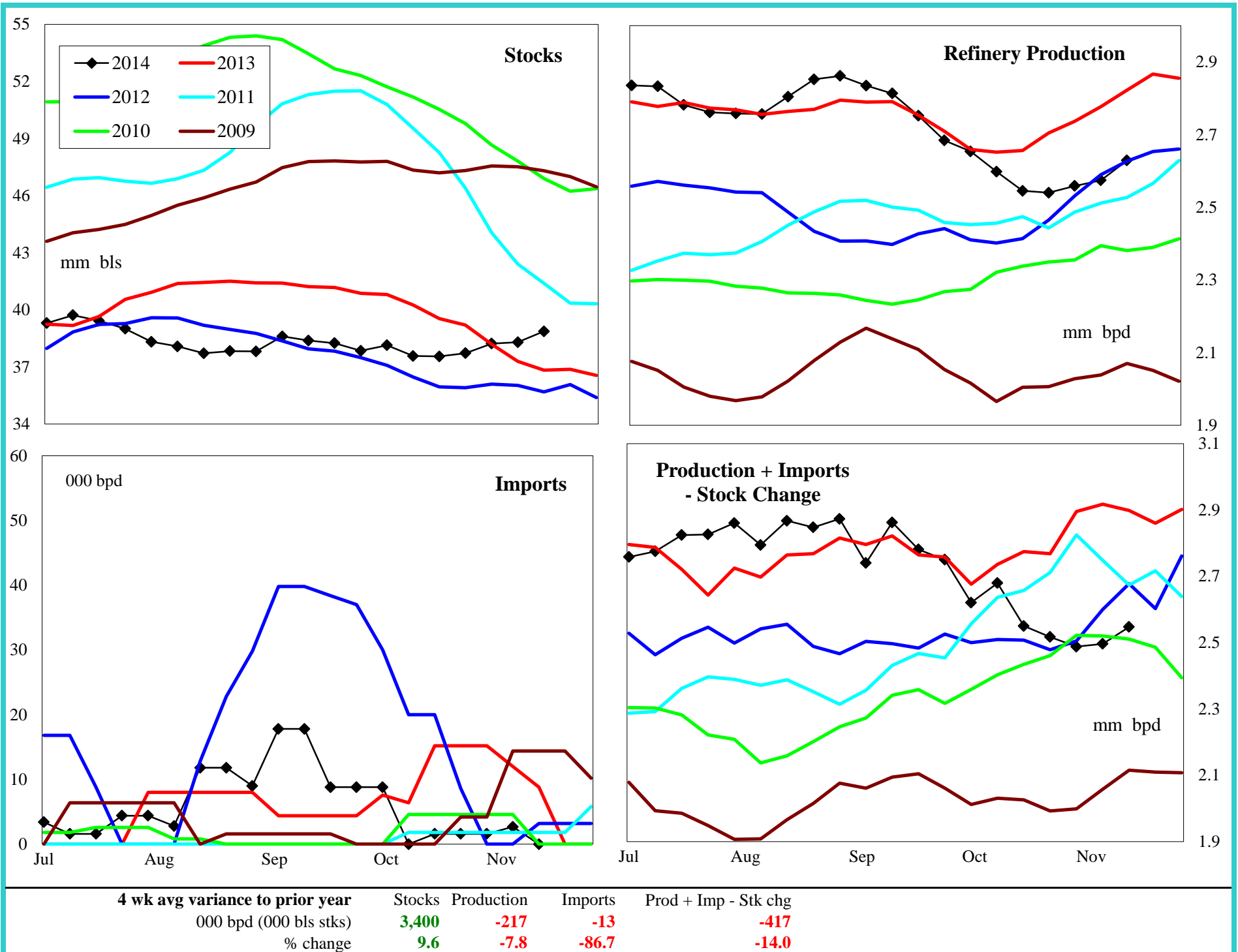
# PADD 3 Reformulated Gasoline Supply



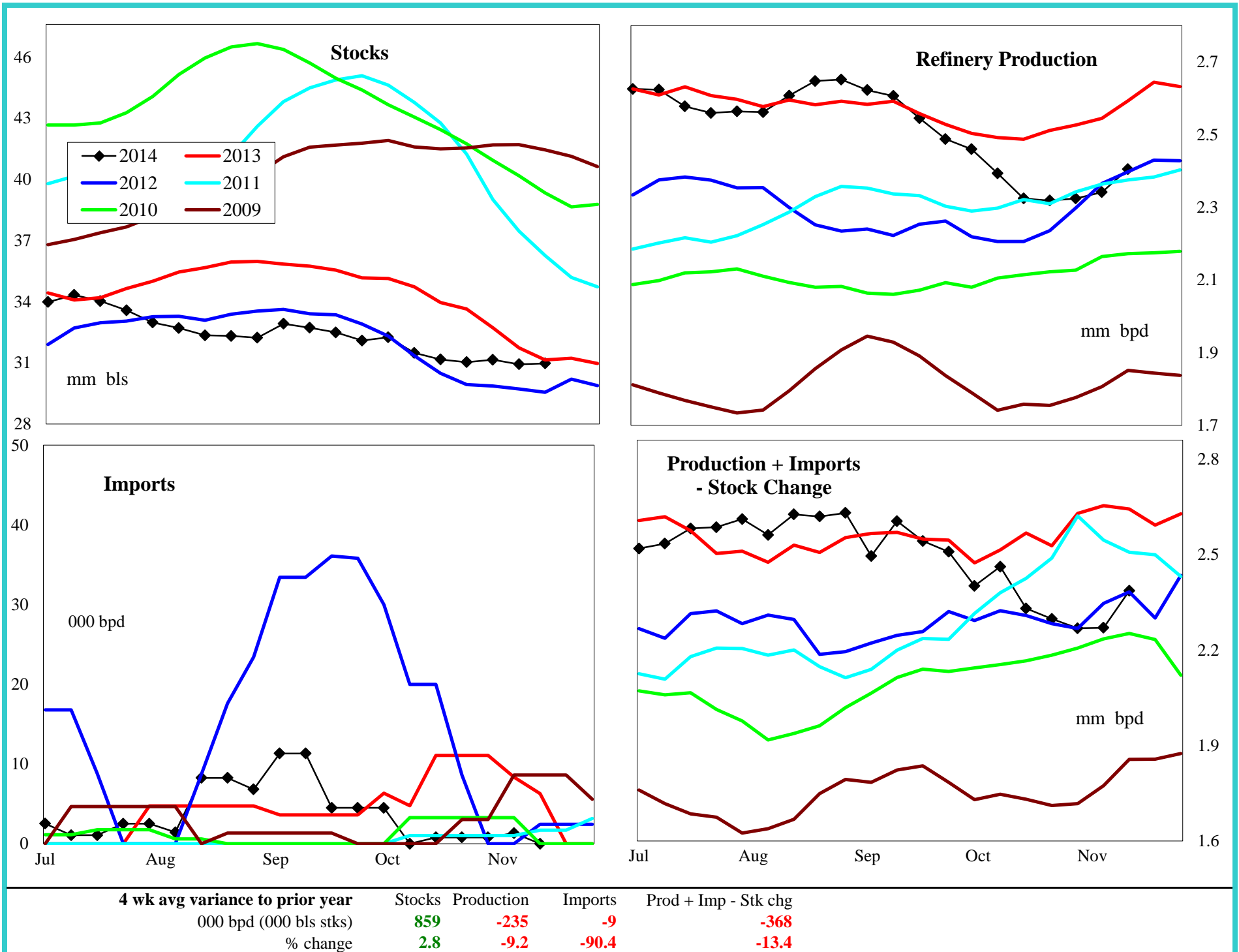
# PADD 3 Conventional Gasoline Supply



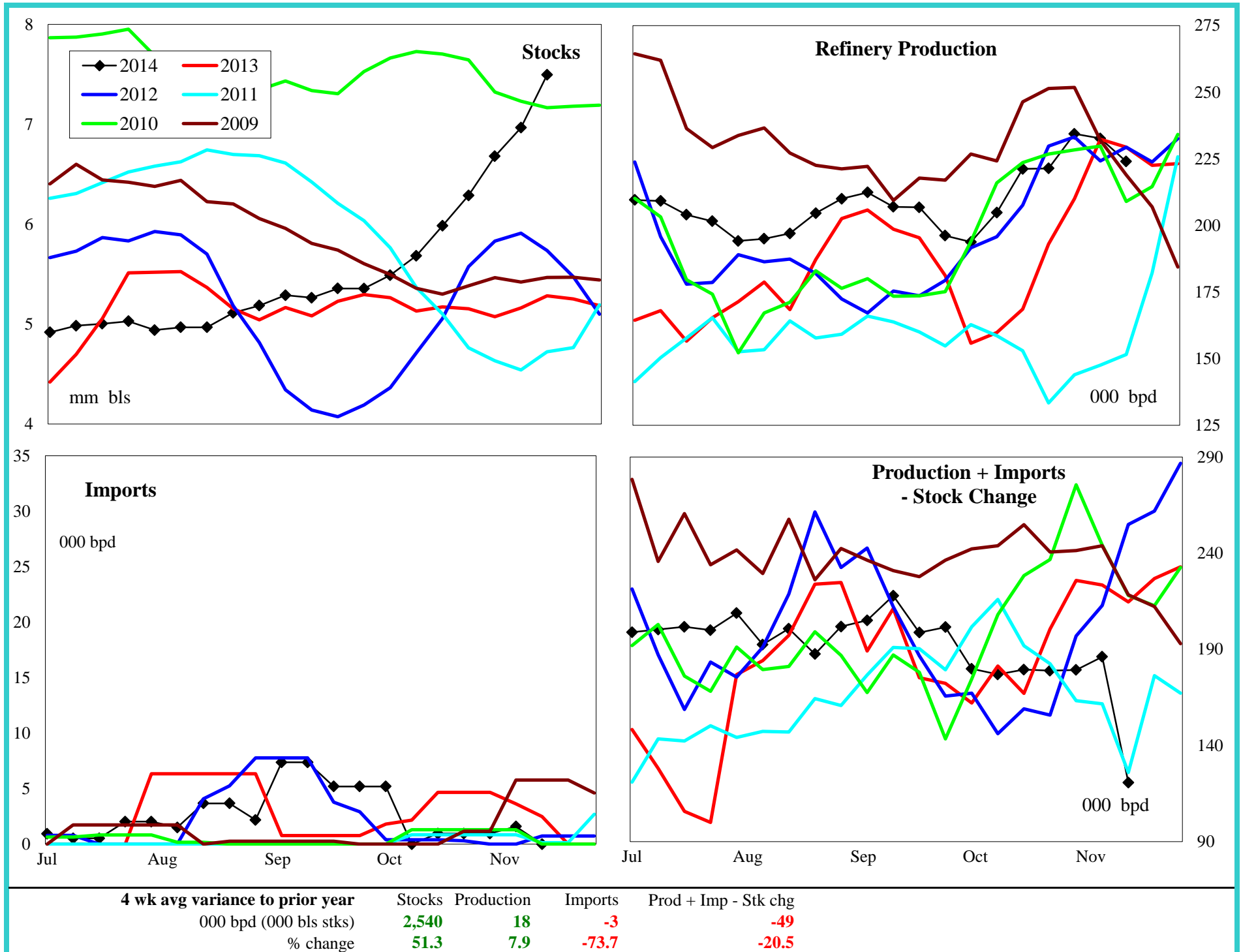
# PADD 3 Distillate Supply



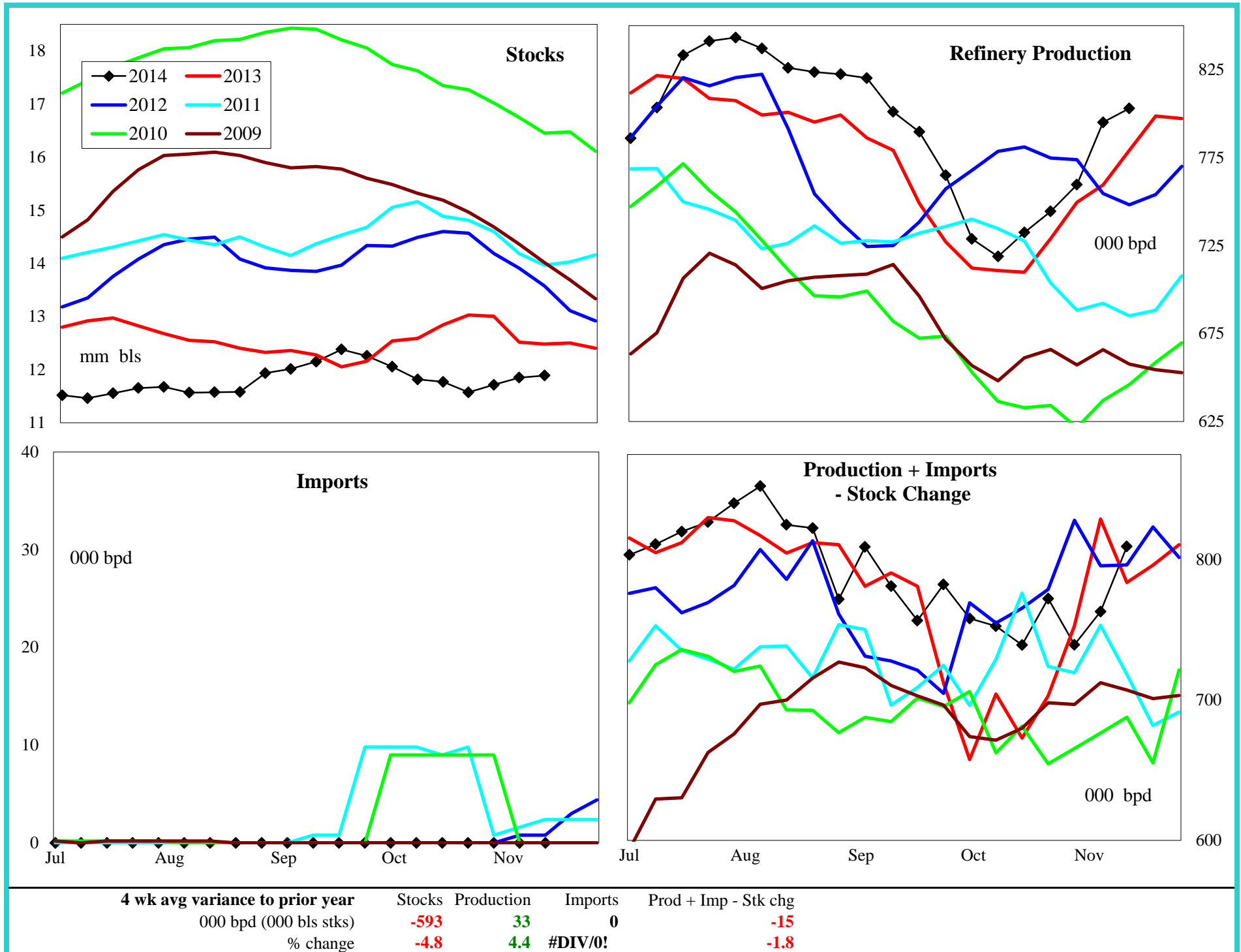
# PADD 3 Low Sulfur Distillate Supply



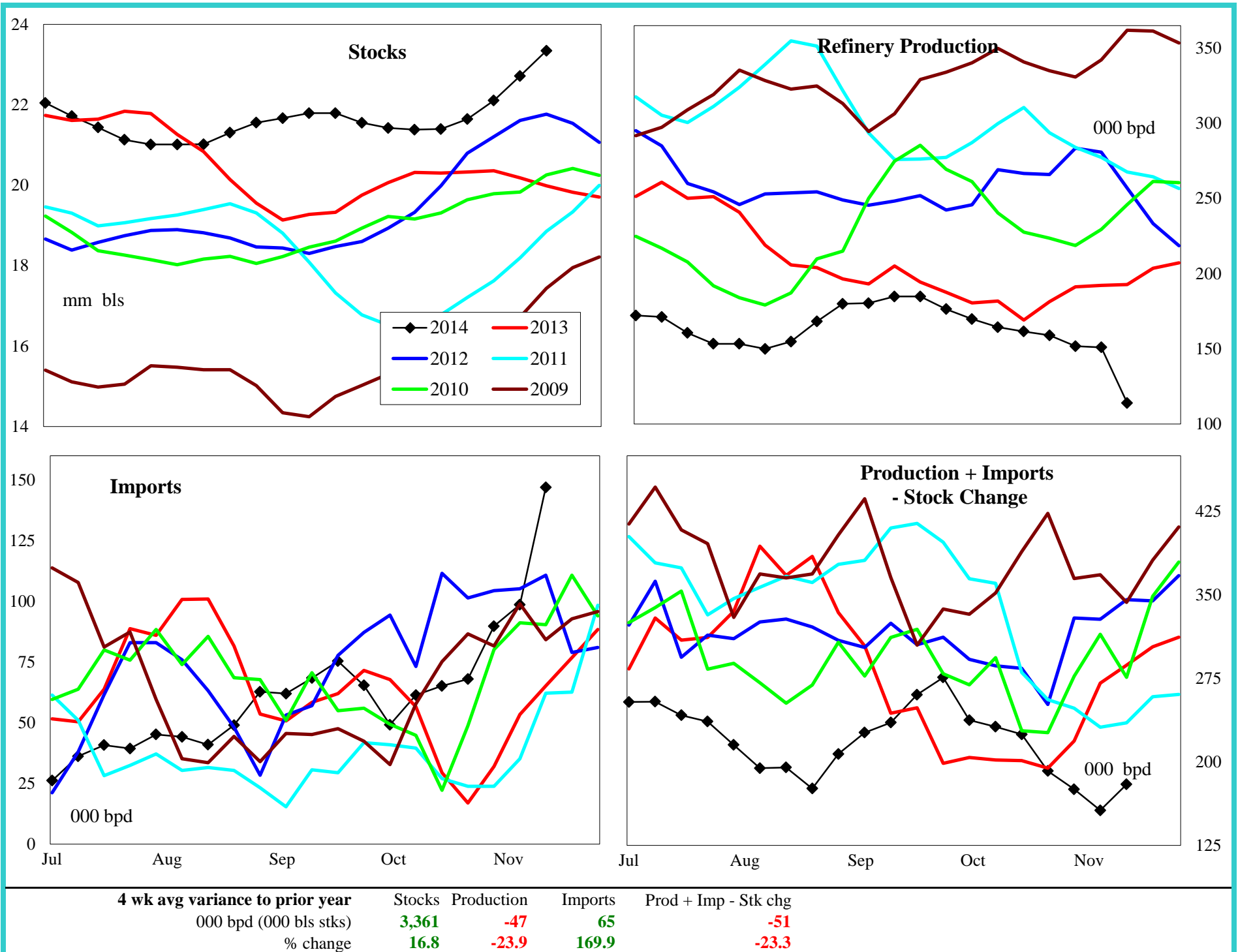
# PADD 3 High Sulfur Distillate Supply



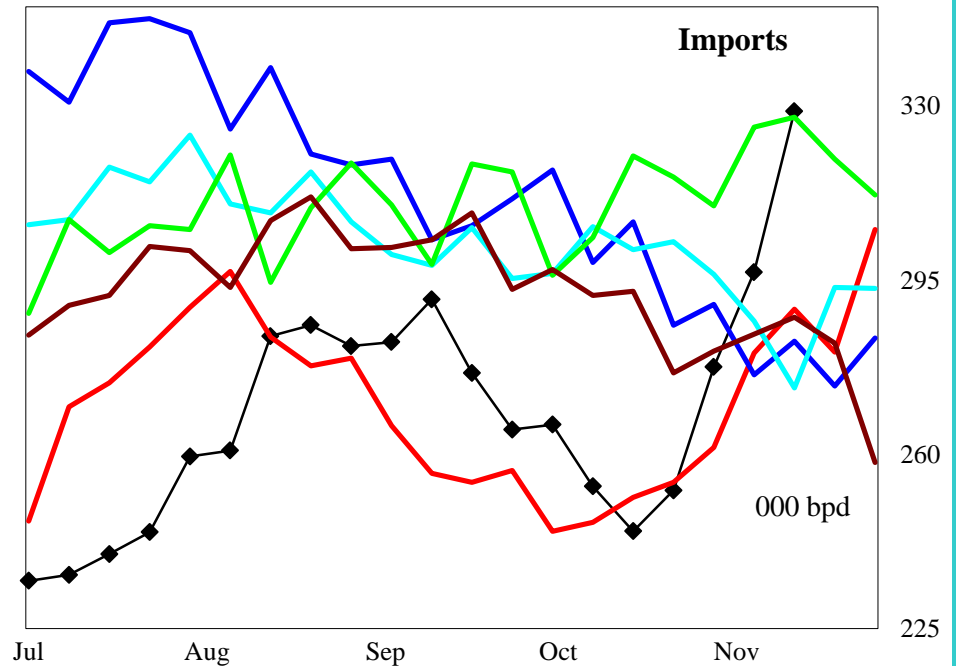
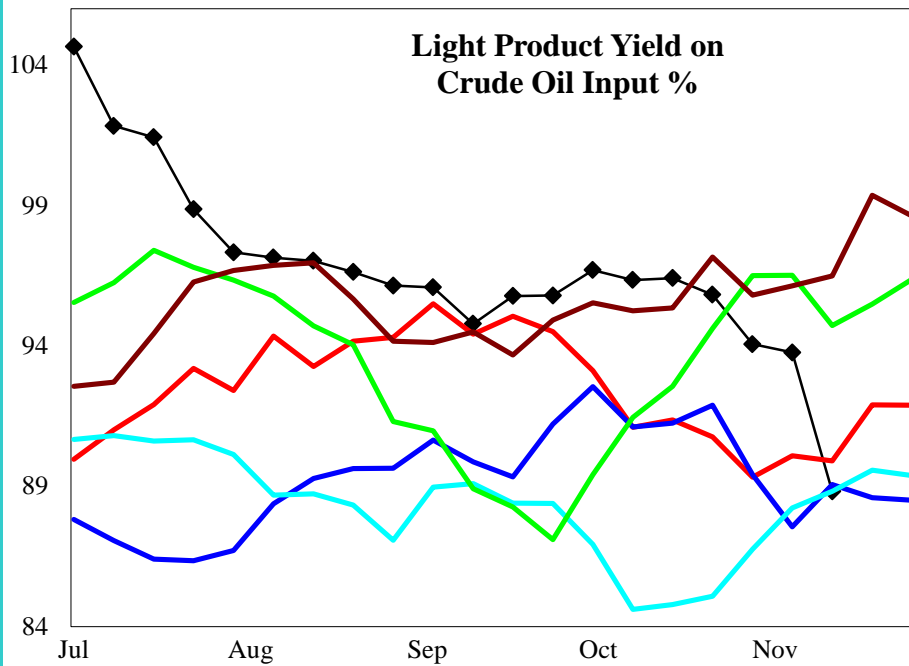
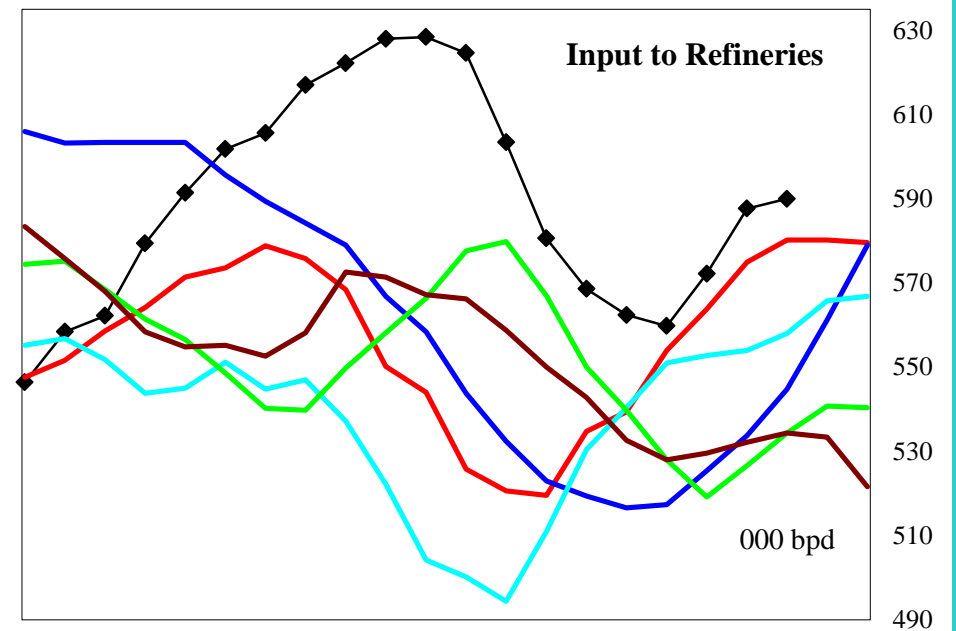
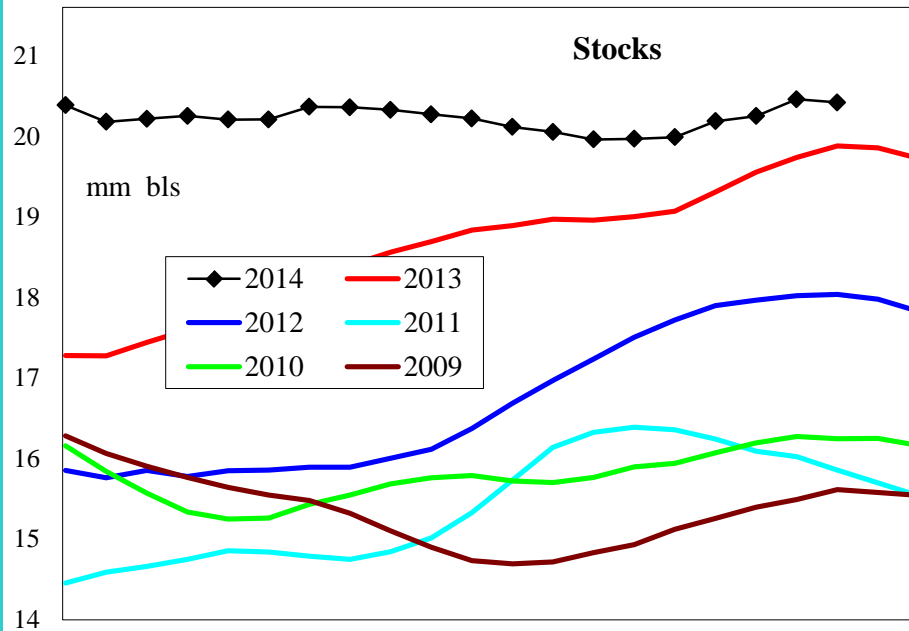
## PADD 3 Jet Fuel Supply



# 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

537

2.6

Input

11

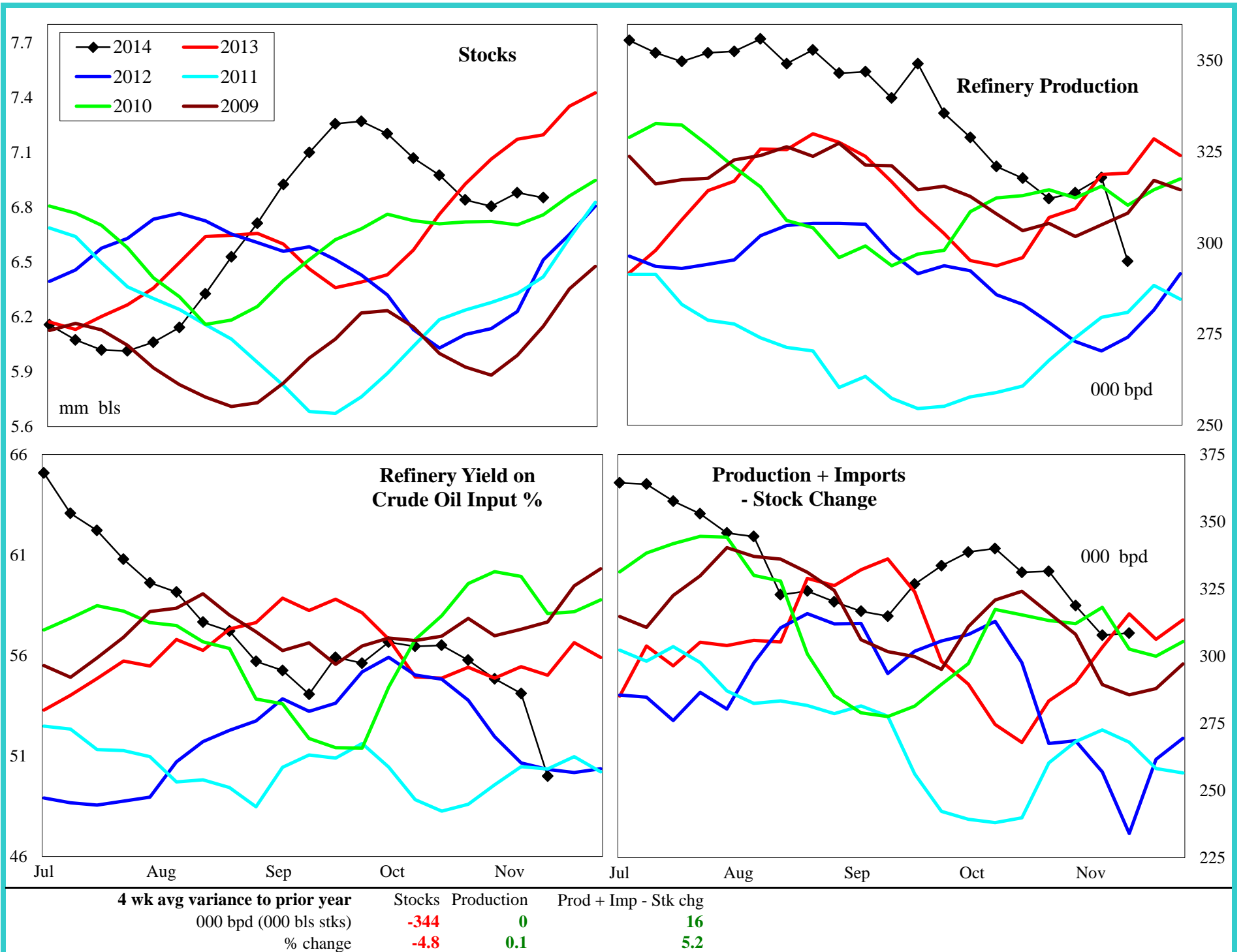
2.0

Imports

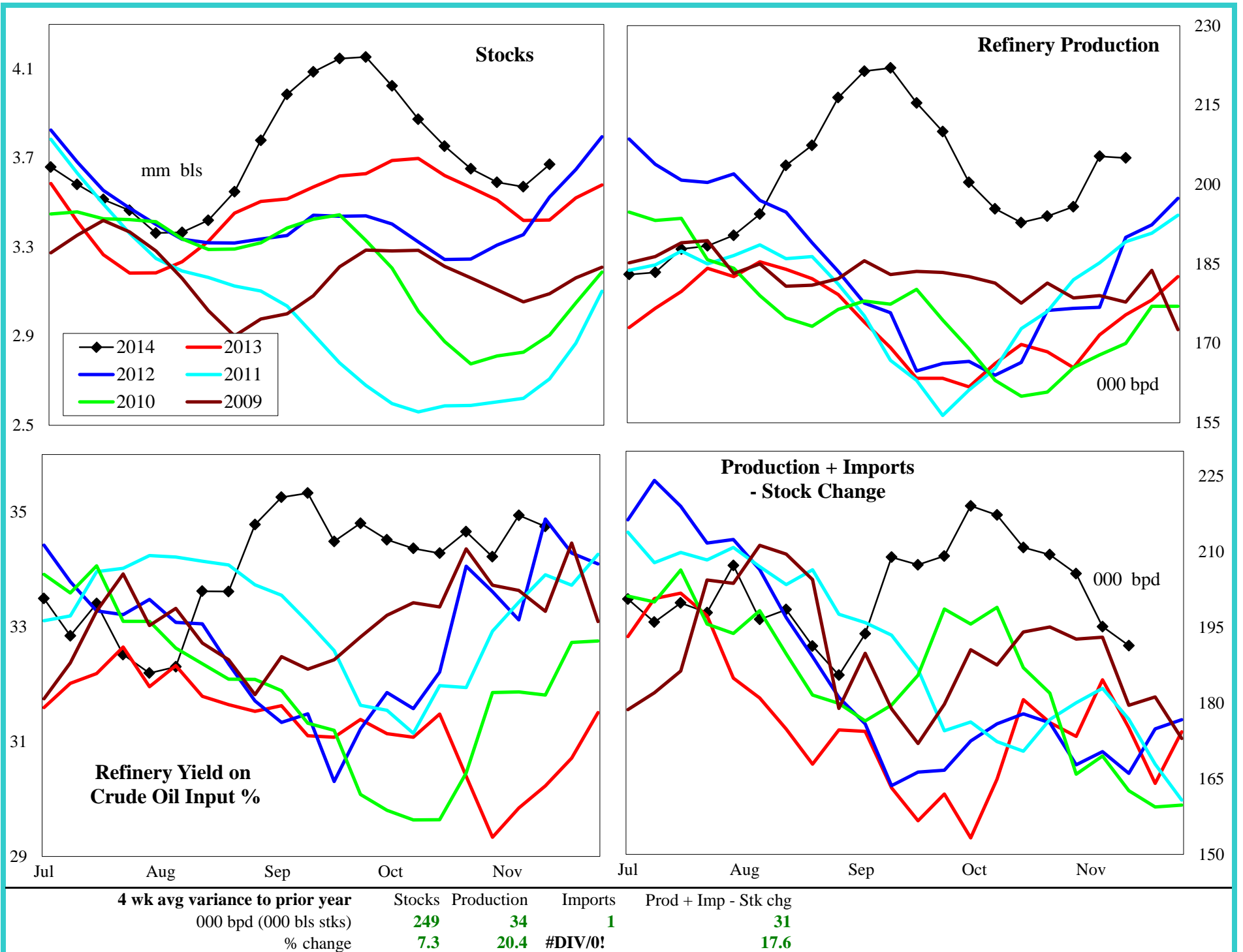
25

9.4

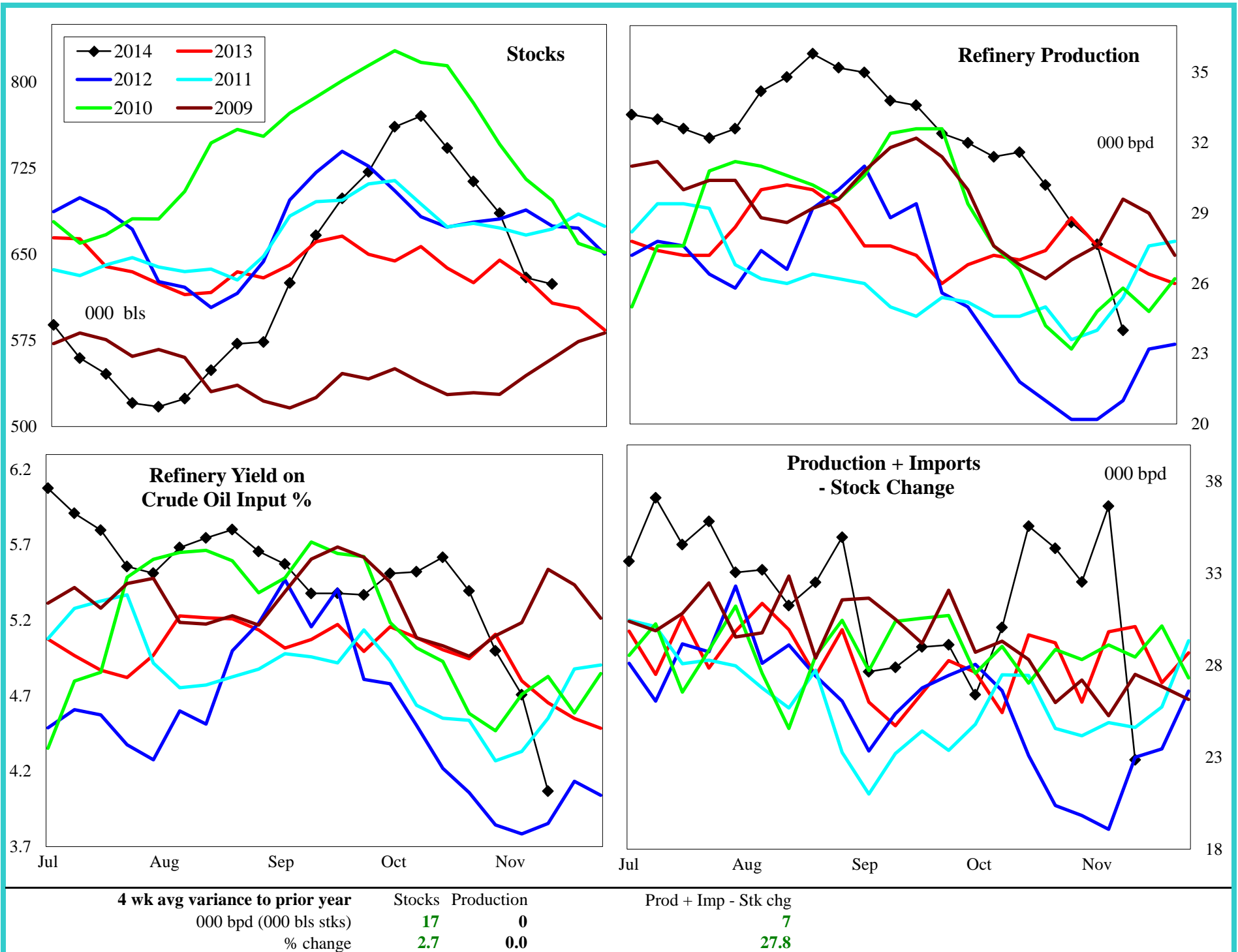
# PADD 4 Gasoline Supply



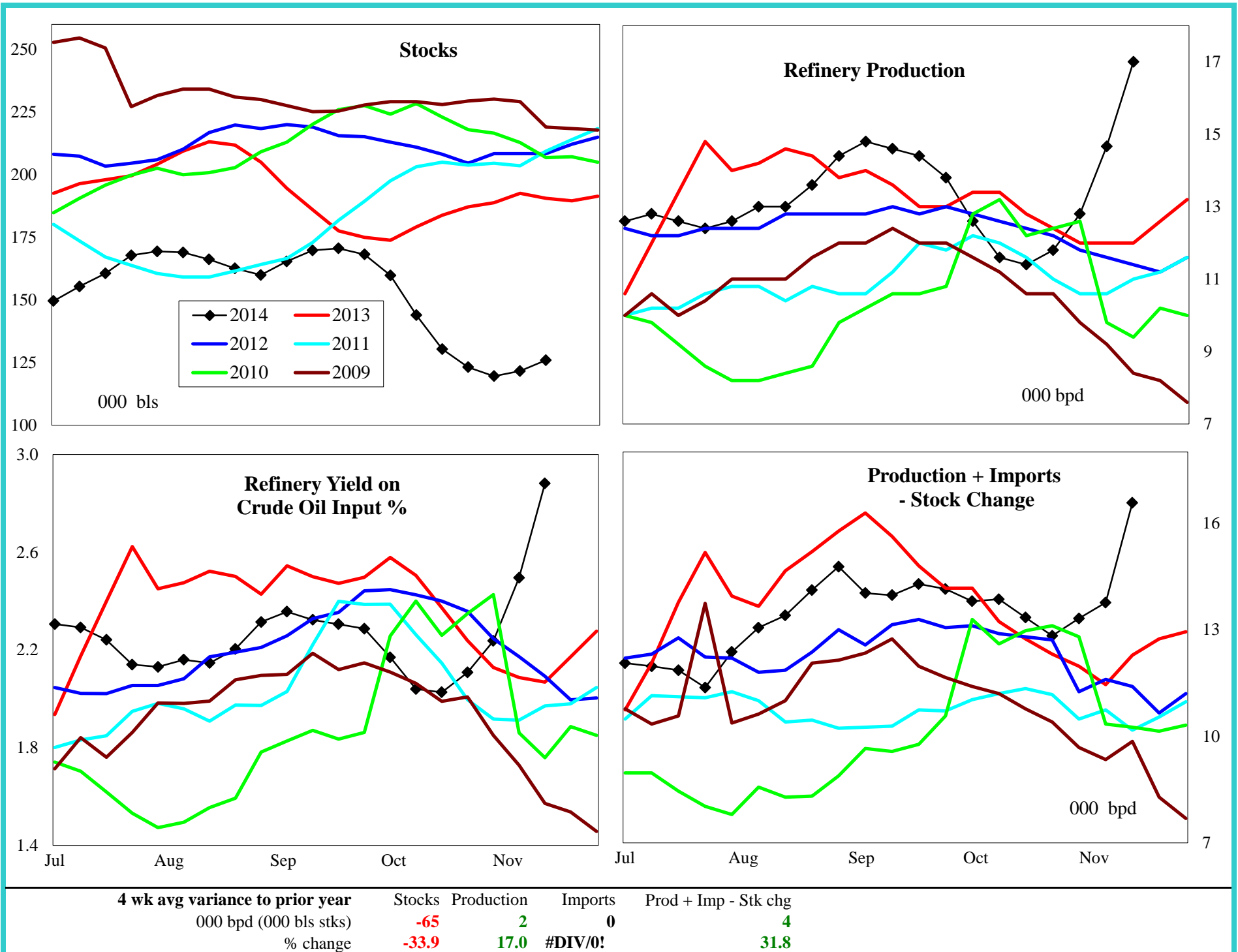
## PADD 4 Distillate Supply



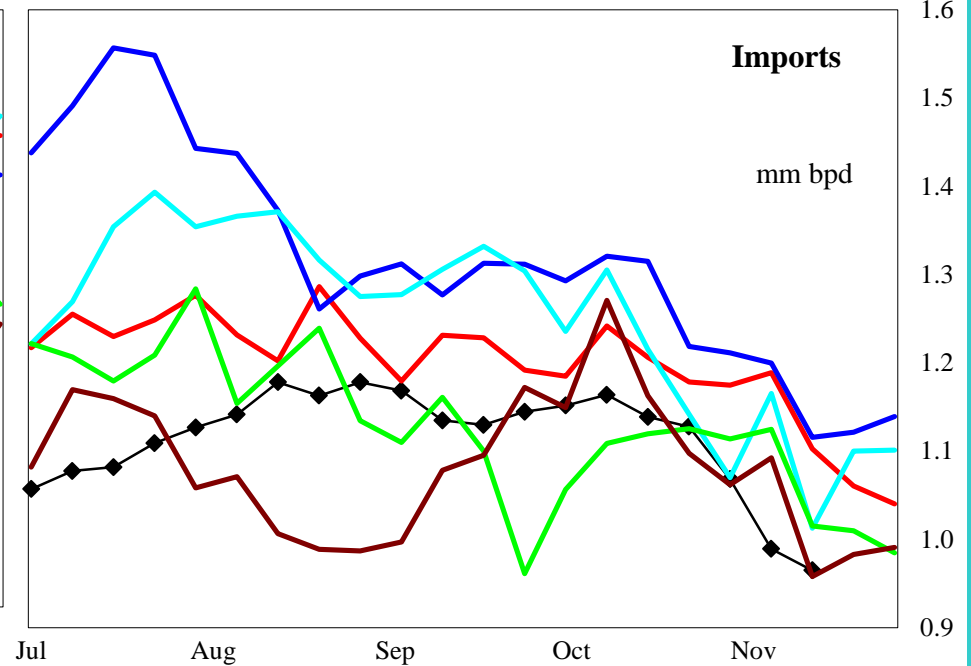
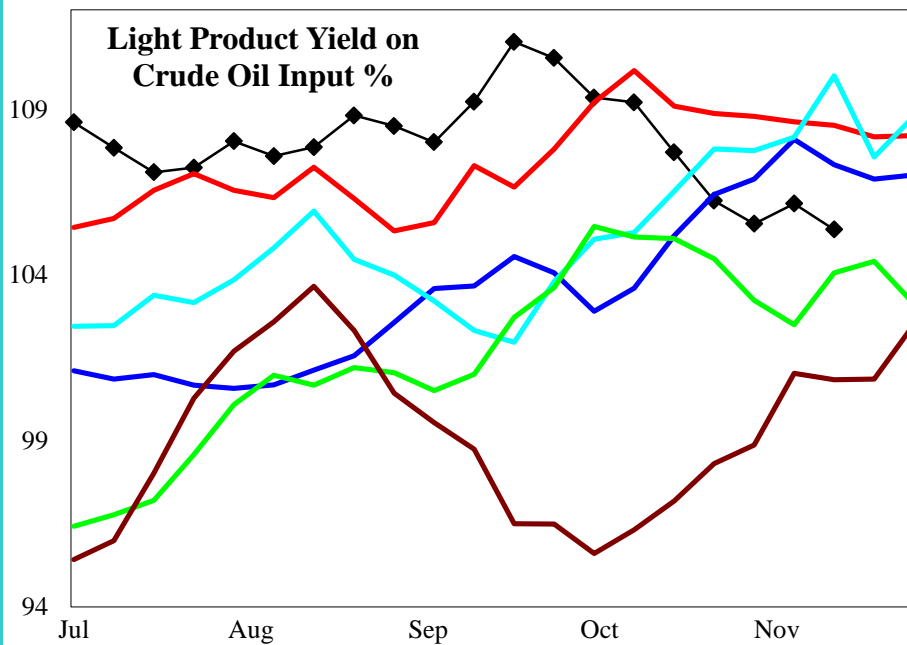
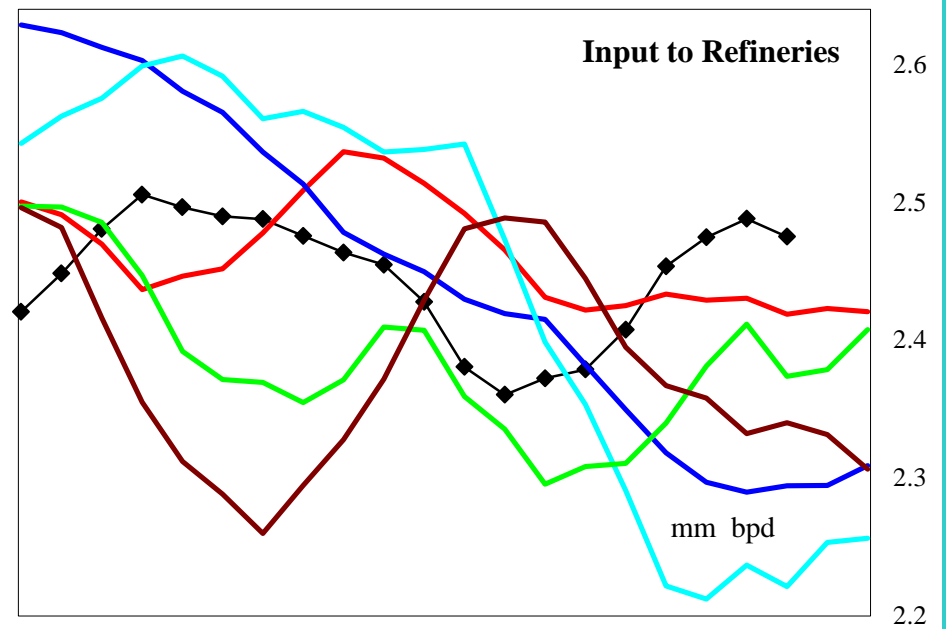
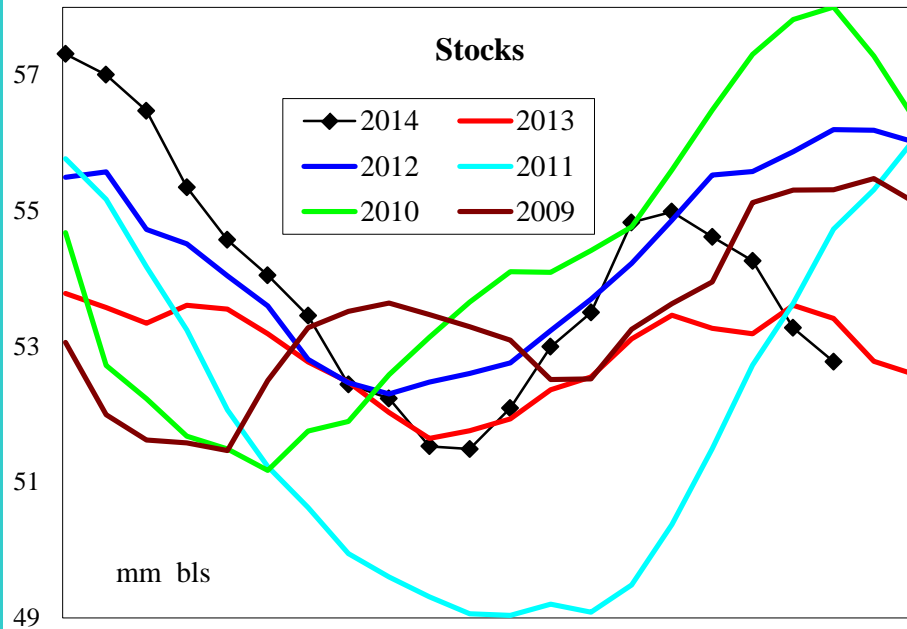
## PADD 4 Jet Fuel Supply



# 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

-639

-1.2

Input

35

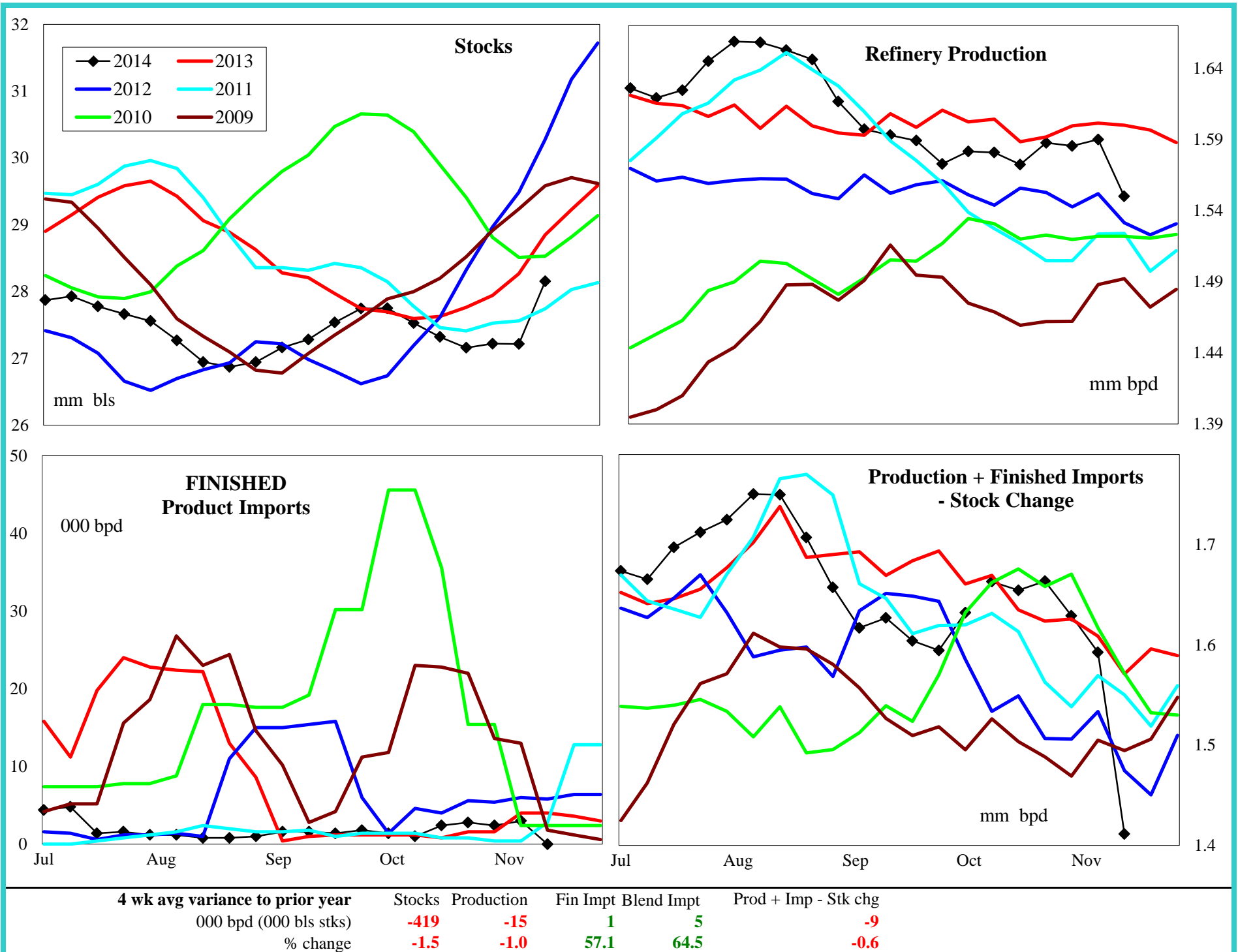
1.5

Imports

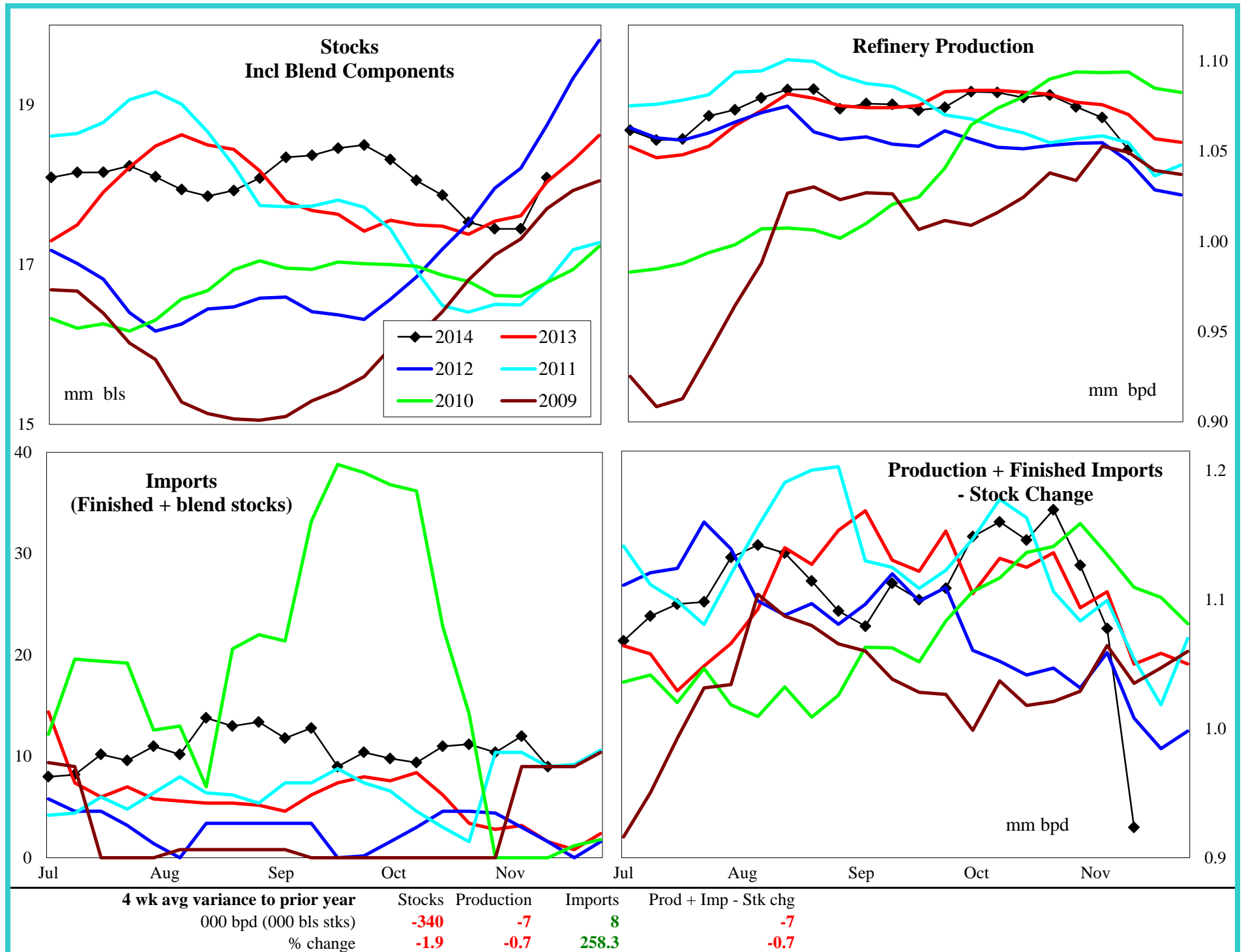
-191

-15.6

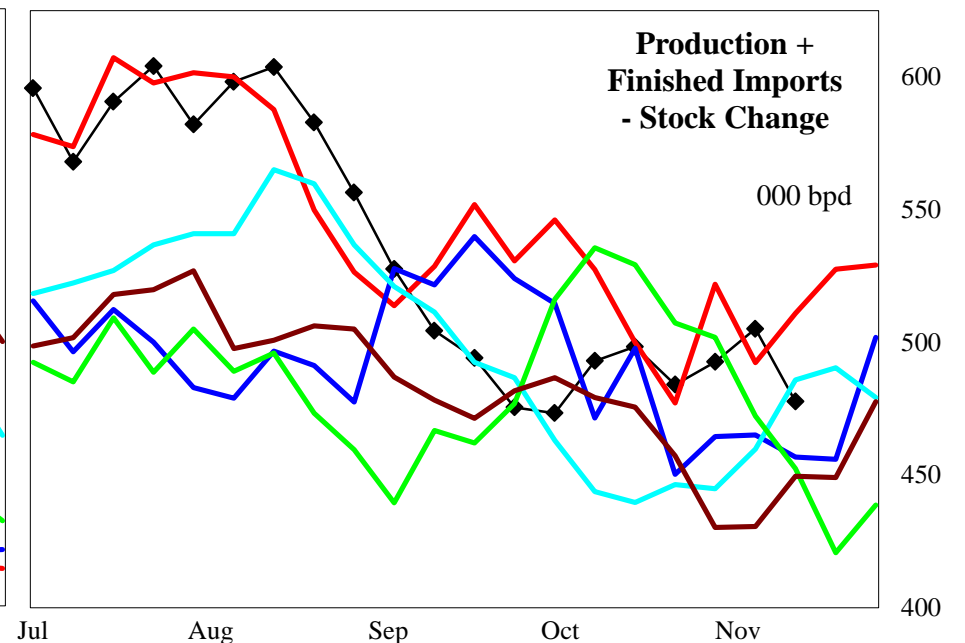
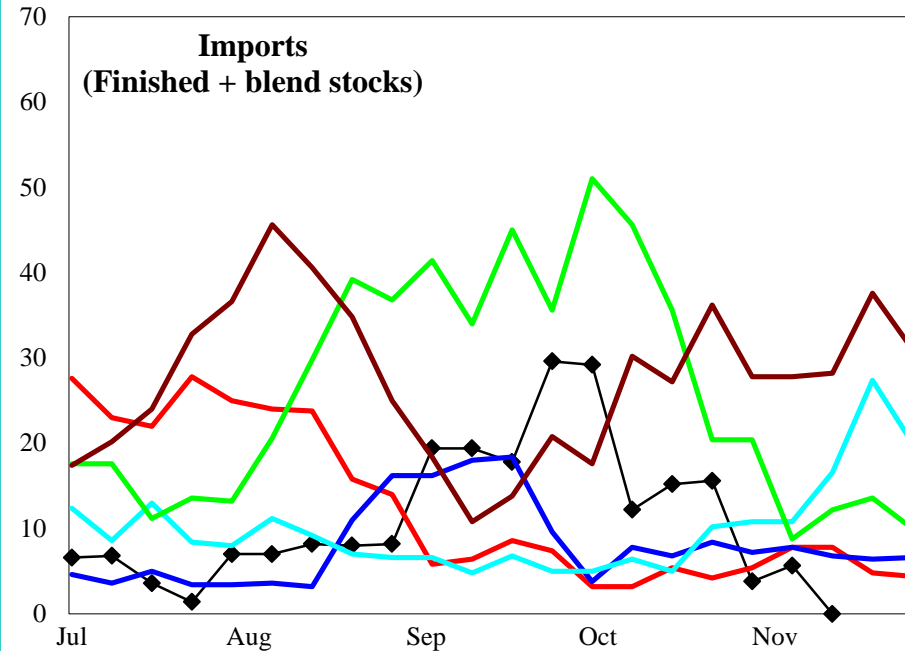
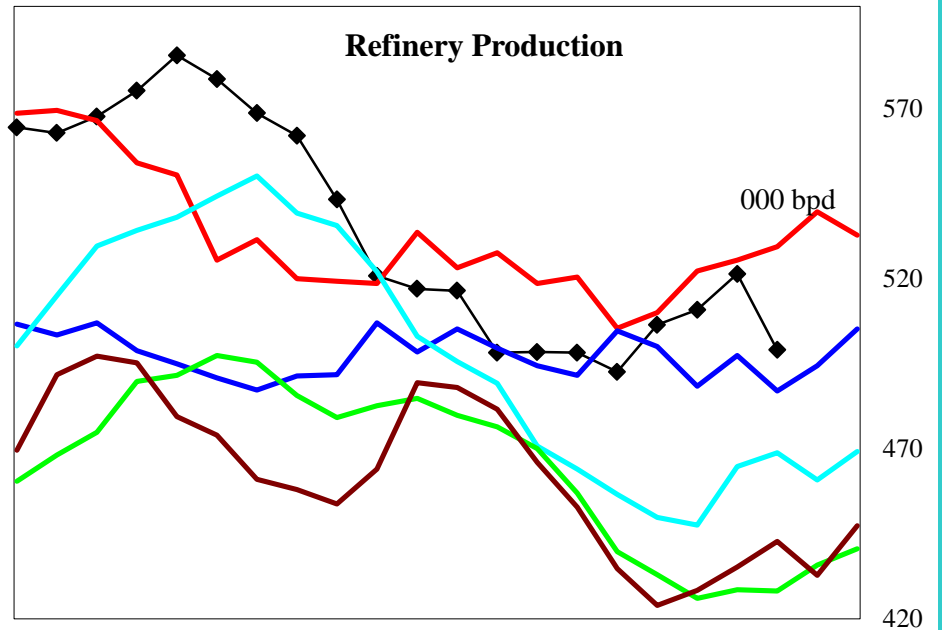
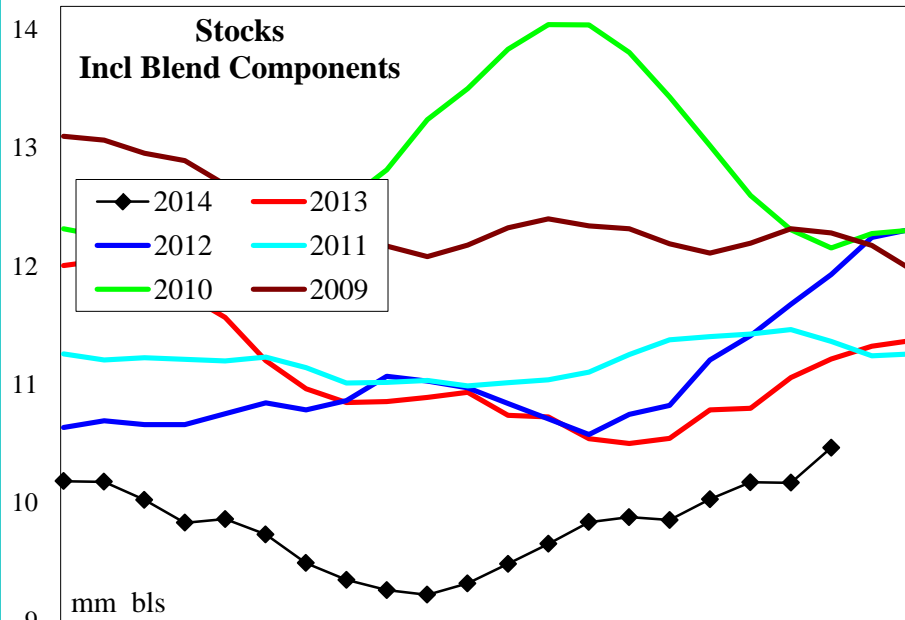
# PADD 5 Gasoline Supply



# 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

-79

-8

-2

-1

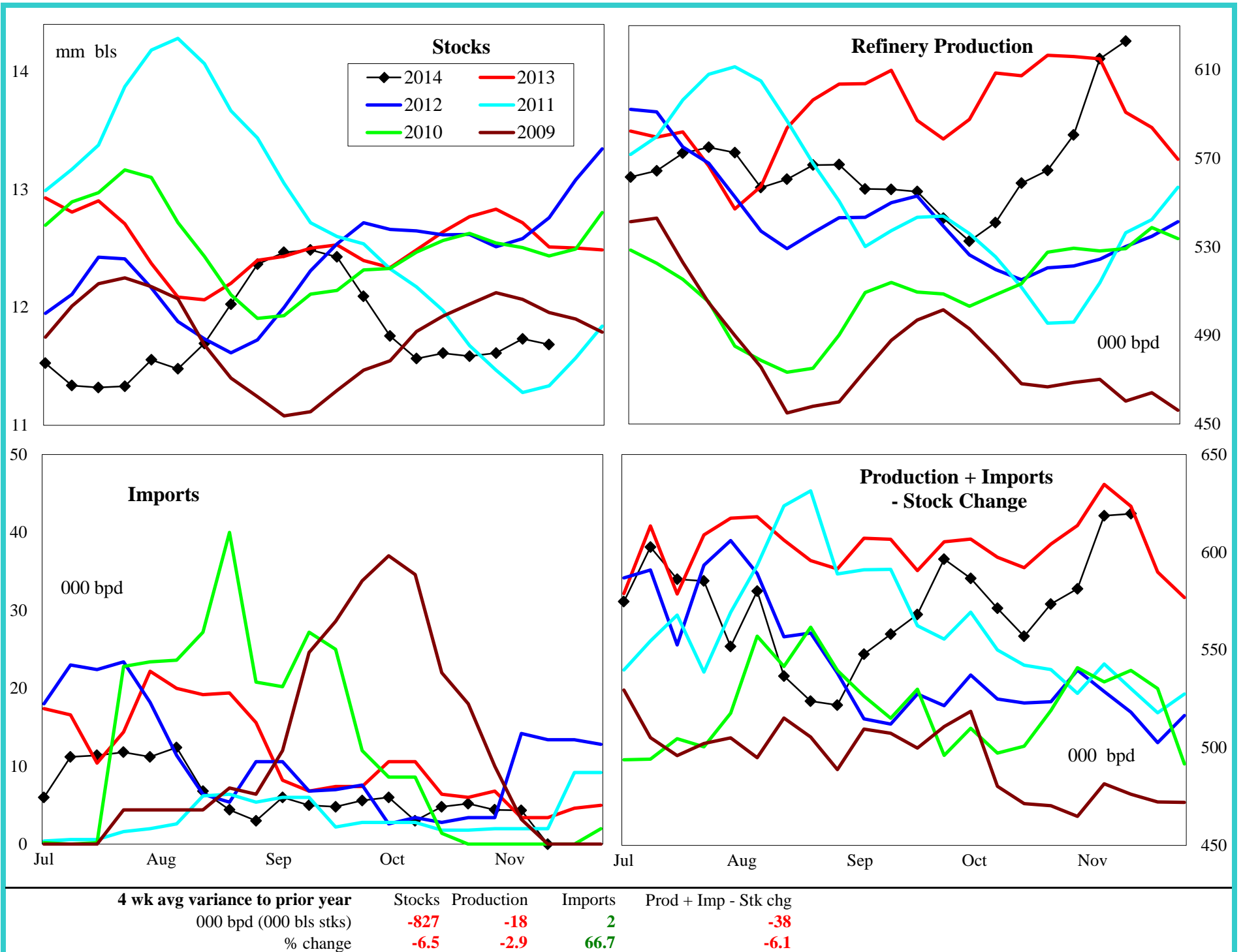
-0.7

-1.5

-26.9

-0.3

## PADD 5 Distillate Supply



# PADD 5 Jet Fuel Supply

