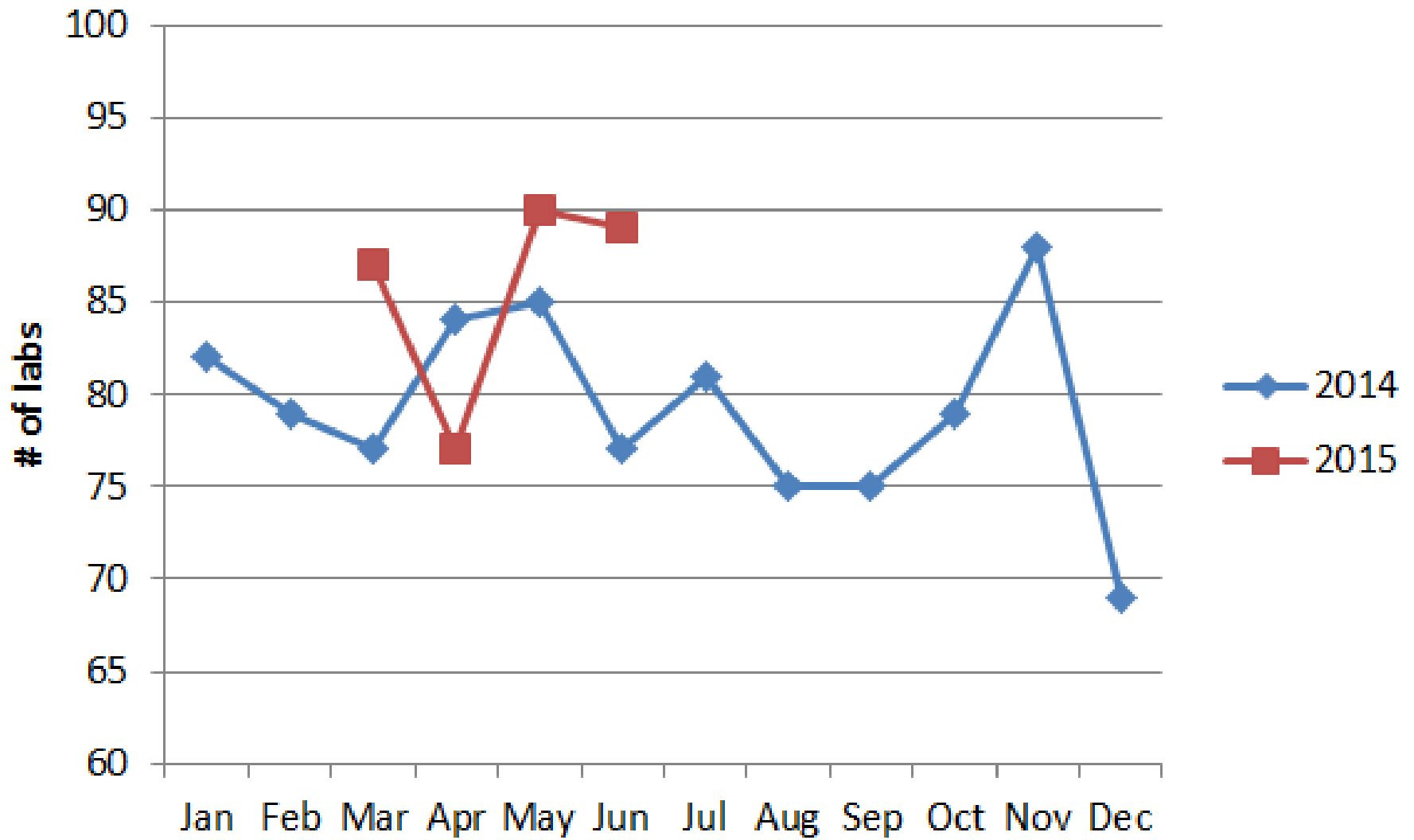


# Update on Magruder Transition

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- New program went Live with Mar sample
- Magruder web site updated
  - new program information
  - gateway to FASS data reporting
- Hard deadline of 15<sup>th</sup>
- individual reporting for separate samples
- 8 new labs in 2015, total labs: 130

# # labs reporting



# Previous Magruder Codes for S

## SULFUR

Gravimetric .....	980.02(a)	144.01	Total S in solids
Gravimetric .....	980.02(b)	144.02	Total S in liquids
Gravimetric .....	980.02(c)	144.03	Total S in urea
Turbidimetric .....	JAOAC 63.845	144.50	Total S
Spectrometric .....		144.70	Total S
Other (Identify).....		144.99	

## Method 980.02

**Sulfate** extracted with HCl, precipitated with Ba, and weighed

**Sulfide** extracted from insoluble residue with CS<sub>2</sub>, sulfide determined by weight difference of residue

**Total S = Sulfate-S + Sulfide-S**

**New Magruder  
Codes for S and  
# labs reporting  
for 150611**

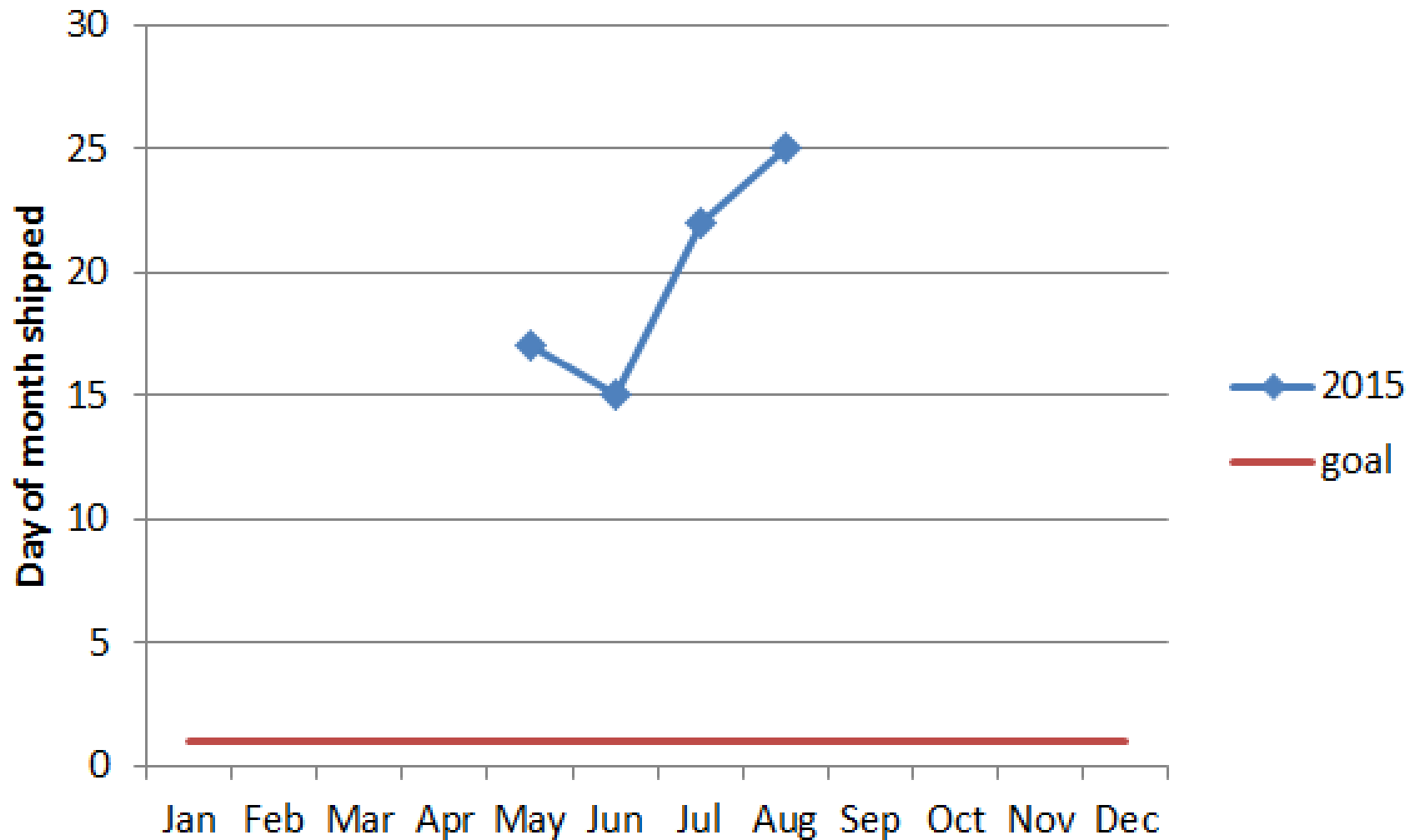
7	143.00	Elemental Sulfur	Gravimetric Sulfur - carbon disulfide soluble sulfur
4	143.99	Elemental Sulfur	Other
6	145.00	Sulfate Sulfur, HCl soluble	Gravimetric Sulfur - sulfate form
3	145.99	Sulfate Sulfur, HCl soluble	Other
	146.00	Total Sulfur in Liquid	Gravimetric - sulfate, sulfite, thiosulfate, and elemental
	146.99	Total Sulfur in Liquid	Other
	147.00	Total Sulfur in Urea/Formulations	Gravimetric
	147.99	Total Sulfur in Urea/Formulations	Other (Identify)
8	148.00	Total Sulfur	Combustion
14	148.01	Total Sulfur	Gravimetric - sulfate and elemental
	148.02	Total Sulfur	Turbidimetric, w/Br digestion, modification of JAOAC 63.845
	148.03	Total Sulfur	Spectrometric, w/Br digestion
	148.04	Total Sulfur	ICP, w/Br digestion
	148.05	Total Sulfur	Thermotitration, w/Br digestion
	148.06	Total Sulfur	Ion Exchange, w/Br digestion
10	148.07	Total Sulfur	ICP, test portion as in 2006.03 modified w/9:3 HNO <sub>3</sub> :HCl
10	148.99	Total Sulfur	Other
	149.02	Sulfur - HNO <sub>3</sub> soluble	Turbidimetric, modification of JAOAC 63.845
	149.03	Sulfur - HNO <sub>3</sub> soluble	Spectrometric
2	149.04	Sulfur - HNO <sub>3</sub> soluble	ICP
	149.05	Sulfur - HNO <sub>3</sub> soluble	Thermotitration
	149.06	Sulfur - HNO <sub>3</sub> soluble	Ion Exchange
	149.99	Sulfur - HNO <sub>3</sub> soluble	Other

# Future Goals

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- Centralize User Database
- Ship samples earlier
  - 30% labs are international
  - 13 to 40 days to ship
- Develop marketing
- Evaluate price increase to cover expenses
- Addition of materials program
- Quick reference guide for report interpretation

# Day of month sample shipped



EXTRA

143.00	Elemental Sulfur	Gravimetric Sulfur - carbon disulfide soluble sulfur	%		Prep and Detect in 980.02a only elemental S	144.01
143.99	Elemental Sulfur	Other	%			144.99
145.00	Sulfate Sulfur, HCl soluble	Gravimetric Sulfur - sulfate form	%		Prep and Detect in 980.02a only sulfate	144.01
145.99	Sulfate Sulfur, HCl soluble	Other	%			144.99
146.00	Total Sulfur in Liquid	Gravimetric - sulfate, sulfite, thiosulfate, and elemental	%	980.02b		144.02
146.99	Total Sulfur in Liquid	Other	%			144.99
147.00	Total Sulfur in Urea/Formulations	Gravimetric	%	980.02c	Total S in sulfur-coated urea and S formulations	144.03
147.99	Total Sulfur in Urea/Formulations	Other (Identify)	%			144.99
148.00	Total Sulfur	Combustion	%		Combustion: Bernius et al.: JAOACI Vol. 97, No. 3, 2014 pg 731-735	n/a
148.01	Total Sulfur	Gravimetric - sulfate and elemental	%	980.02a		144.01
148.02	Total Sulfur	Turbidimetric, w/Br digestion, modification of JAOAC 63.845	%	JAOAC 63.845	Prep with bromine digestion, Detect as JAOAC 63.845	144.50
148.03	Total Sulfur	Spectrometric, w/Br digestion	%			144.70
148.04	Total Sulfur	ICP, w/Br digestion	%			n/a
148.05	Total Sulfur	Thermotitration, w/Br digestion	%			n/a
148.06	Total Sulfur	Ion Exchange, w/Br digestion	%			n/a
148.07	Total Sulfur	ICP, test portion as in 2006.03 modified w/9:3 HNO3:HCl	%			n/a
148.99	Total Sulfur	Other	%			144.99
149.02	Sulfur - HNO3 soluble	Turbidimetric, modification of JAOAC 63.845	%			n/a
149.03	Sulfur - HNO3 soluble	Spectrometric	%			n/a
149.04	Sulfur - HNO3 soluble	ICP	%			n/a
149.05	Sulfur - HNO3 soluble	Thermotitration	%			n/a
149.06	Sulfur - HNO3 soluble	Ion Exchange	%			n/a
149.99	Sulfur - HNO3 soluble	Other	%			144.99