

DEPARTMENT of AGRICULTURE, FORESTRY and FISHERIES

SUMMER CROPS: FINAL 2015/16 Production season

10 February 2017



Crop Estimates Committee
Oesskattingskomitee



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Introduction

- Seasonal rains arrived several weeks late during the latter part of 2015, delaying the start of the planting season.
- Limited follow-up rains were received during 2016 as severe drought conditions persisted and extremely high temperatures experienced, which all impacted negatively on yields.
- The South African weather service indicates that 2015/16 represented the lowest annual rainfall in South Africa since 1904 – a fact also reflected in the expected summer grain production.
- The severity of the drought through November and December 2015 resulted in a substantial decline of almost 30% in the national area planted to maize.
- The 2016 crop was also the smallest maize crop since the 2007 season, when the production was 7,125 million tons.
- Owing to its resilience in drought conditions, as well as its extended planting window in the Western parts of the summer rainfall region, sunflower seed was the only summer crop that saw an expansion of the production area in 2016.



Inputs received from:

	AREA		YIELD		PRODUCTION	
A-line	NCSC:PICES (obj) & Telephonic survey (subj)		NCSC: Obj field surveys & Telephonic survey		SAGIS (end of season)	
B-line	DAFF		ARC-Modelling		Seed Companies	
C-line	PDA's	DPO	Forums/Processors	Agric Businesses	SACOTA	Traders/Reports

A-line: Determine the area and production/yield (90%)

B-line: Evaluate/verify inputs from A-line

C-line: Evaluate/verify inputs from A- and B-line



What does the CEC estimate?

- **TOTAL CROP = Marketable + On Farm-use + Seed**

DEFINITION for production:

- **Any quantities of whole grain or seed for market or to be retained/used on farm as seed, animal feed or for human consumption, EXCLUDING any quantities for fodder, silage and grazing.**



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Methodology that the CEC uses to recalculate the crops is as follows:

Component	Source
1. Producer deliveries (12 months)	
•Actual deliveries	SAGIS
•Projected deliveries	SAGIS (Historic tendencies)
2. On-farm use	NCSC & DAFF (Survey)
3. Seed	SAGIS/SANSOR
TOTAL	1 + 2 + 3



**MAIZE =
7,778 mill tons**

2016 MAIZE		WM	YM	Total
(A)	Early deliveries (SAGIS)	342 315	478 693	821 008
	Jan & Feb 2016	54 259	28 738	82 997
	Mrch 2016	128 632	121 129	249 761
	Apr 2016	159 424	328 826	488 250
(B)	Actual deliveries (SAGIS)	2 852 950	3 434 695	6 287 645
	May 2016	383 074	722 466	1 105 540
	Jun 2016	734 990	1 326 686	2 061 676
	Jul 2016	859 405	912 069	1 771 474
	Aug 2016	670 736	324 778	995 514
	Sep 2016	168 748	102 034	270 782
	Oct 2016	35 997	46 662	82 659
(C)	Projected deliveries (Historic trend(s) SAGIS)	172 183	169 948	342 131
	Nov 2016	37 221	46 586	83 807
	Dec 2016	18 190	27 048	45 238
	Jan 2017	31 772	41 314	73 086
	Feb 2017	85 000	55 000	140 000
	(A) + (B) + (C) (Mrch 2016 - Feb 2017)	3 367 448	4 083 336	7 450 784
(D)	Estimates retentions (DAFF & NCSC)	25 502	265 814	291 316
(E)	Seed (SANSOR)	15 550	20 850	36 400
(F)	Total crop = SAGIS + Retentions (A) + (B) + (C) + (D) + (E)	3 408 500	4 370 000	7 778 500
(G)	CEC SEP	3 253 775	4 283 100	7 536 875
	Difference (CEC (G) - Total Crop (F))	- 154 725	- 86 900	- 241 625

(tons)	CEC deviation from recalculated crop:	(%)	(%)	(%)
- 340 250	Jan	-4.15	-4.55	-4.37
- 522 750	Feb	-6.24	-7.09	-6.72
- 713 225	Mrch	-9.91	-8.59	-9.17
- 724 125	Apr	-10.01	-8.77	-9.31
- 617 575	May	-9.13	-7.01	-7.94
- 617 575	Jun	-9.13	-7.01	-7.94
- 516 575	Jul	-9.13	-4.70	-6.64
- 481 475	Aug	-9.13	-3.89	-6.19
- 241 625	Sep	-4.54	-1.99	-3.11

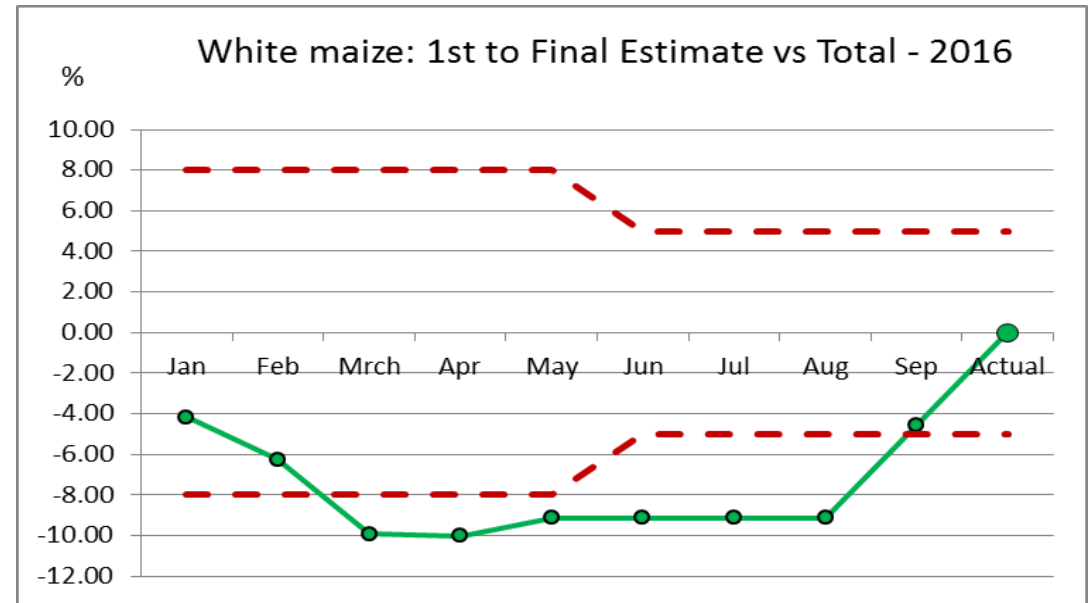
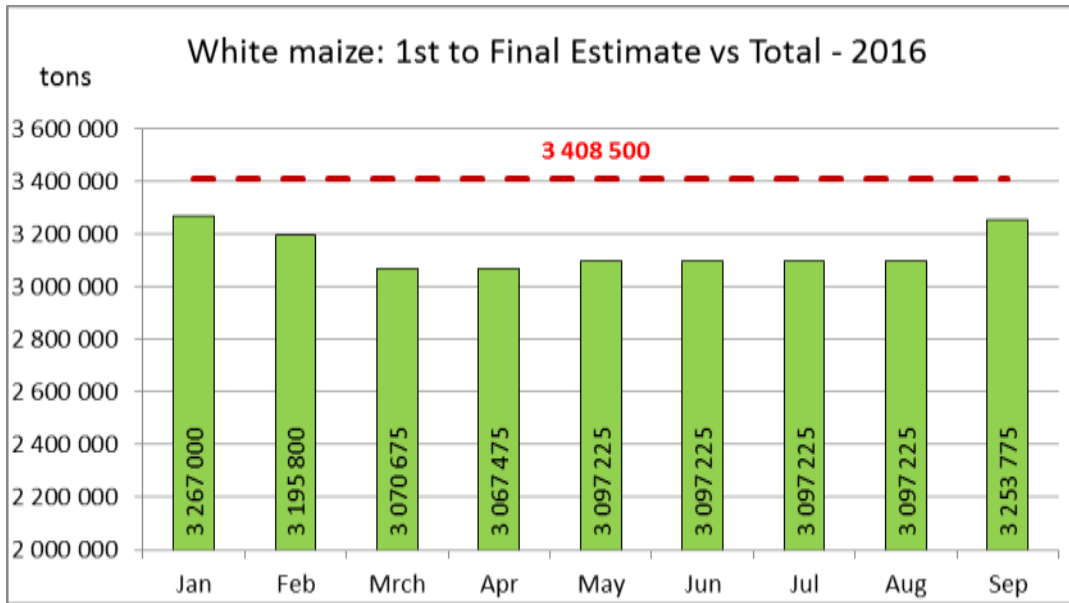
Within 8%

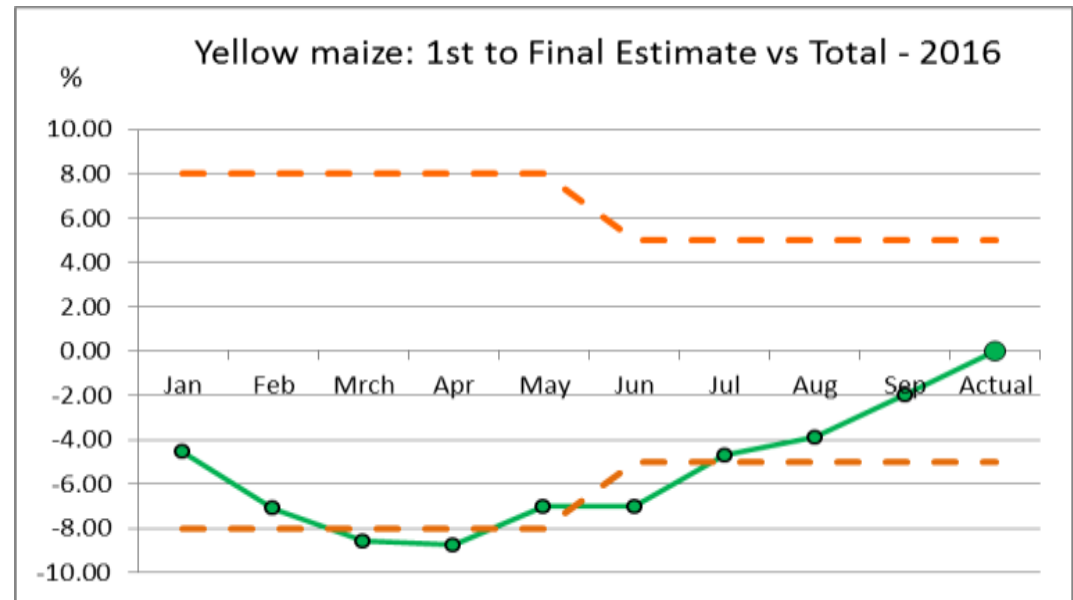
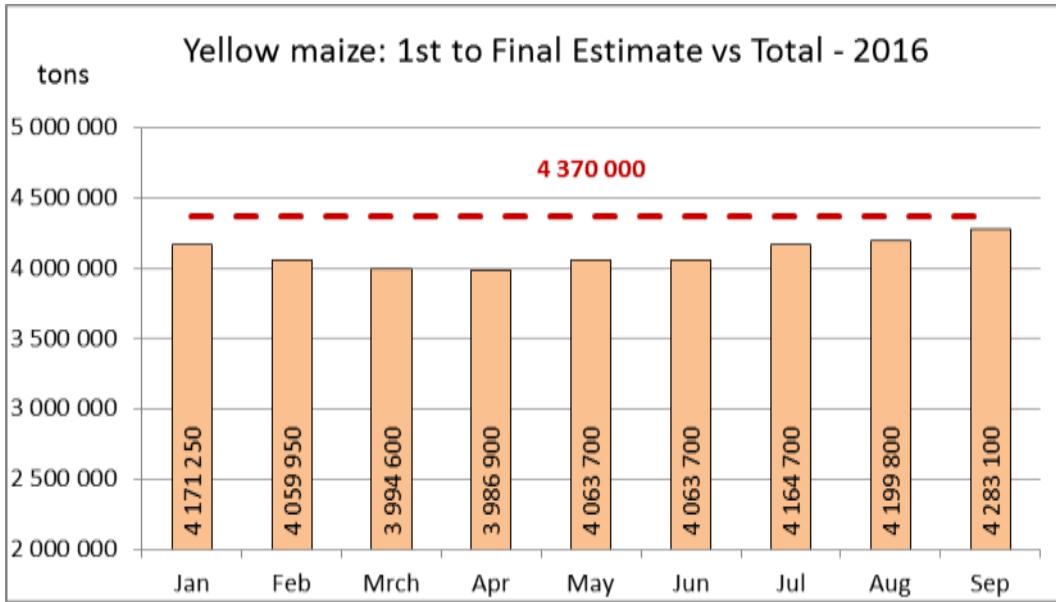
Within 5%

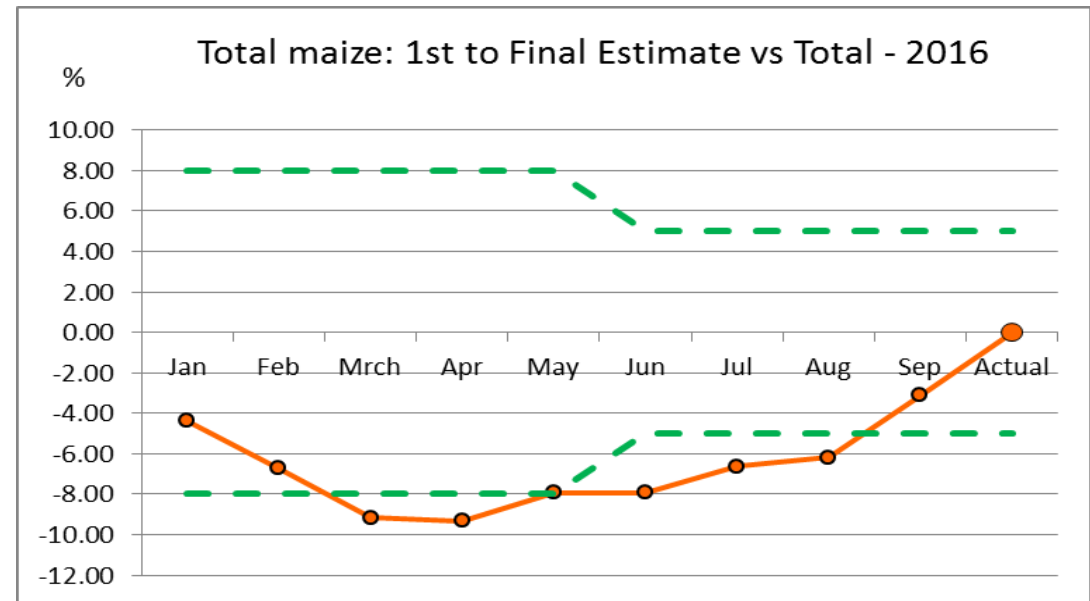
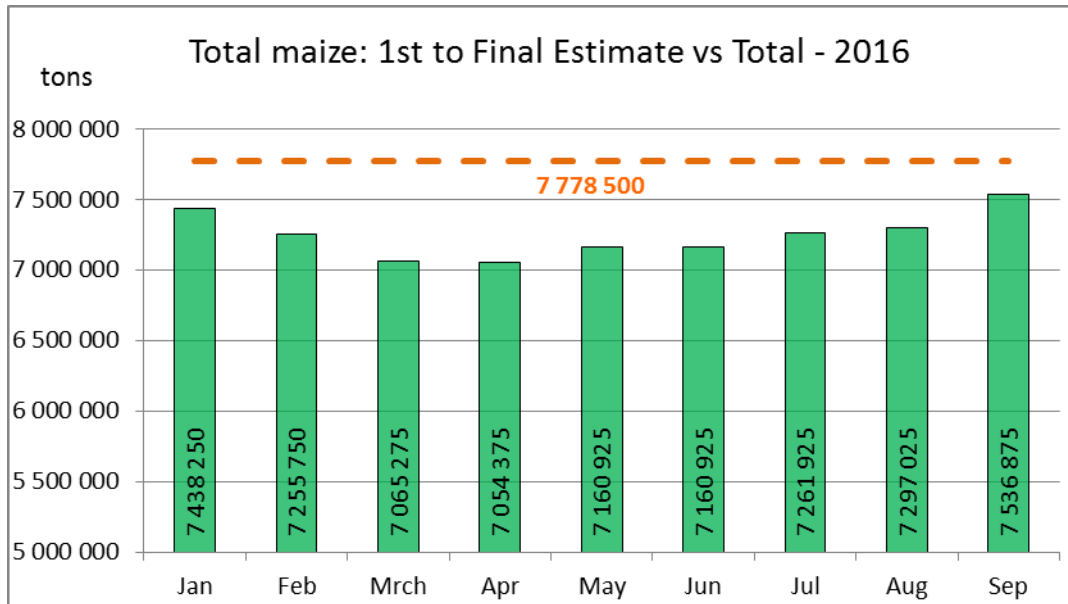


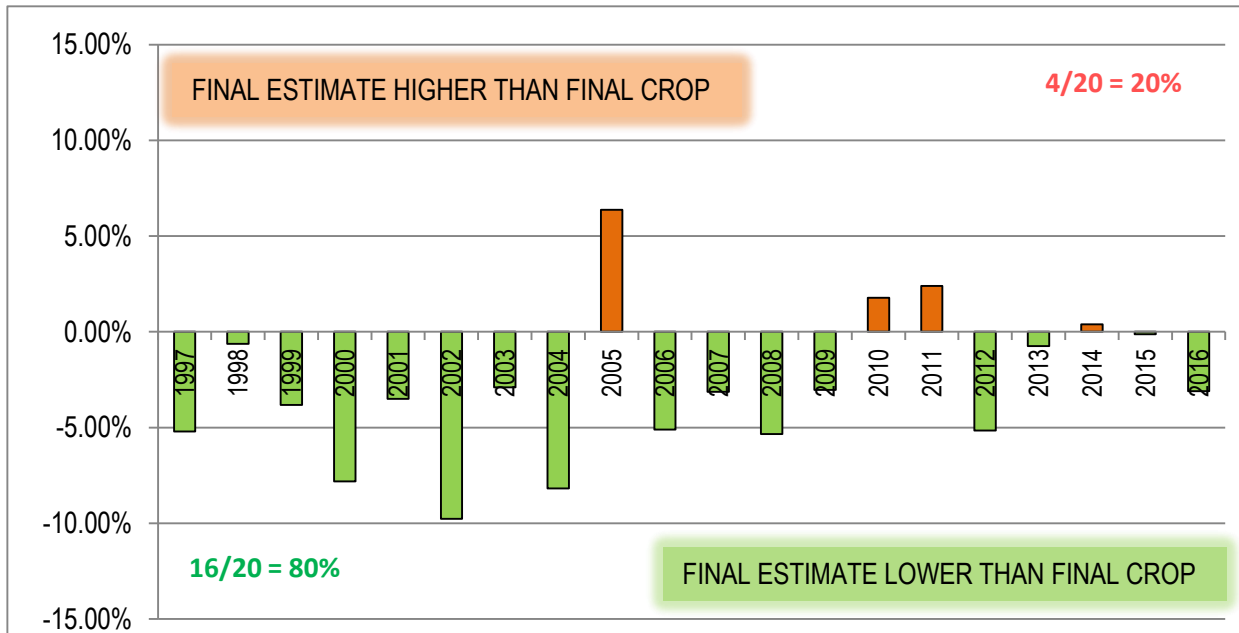
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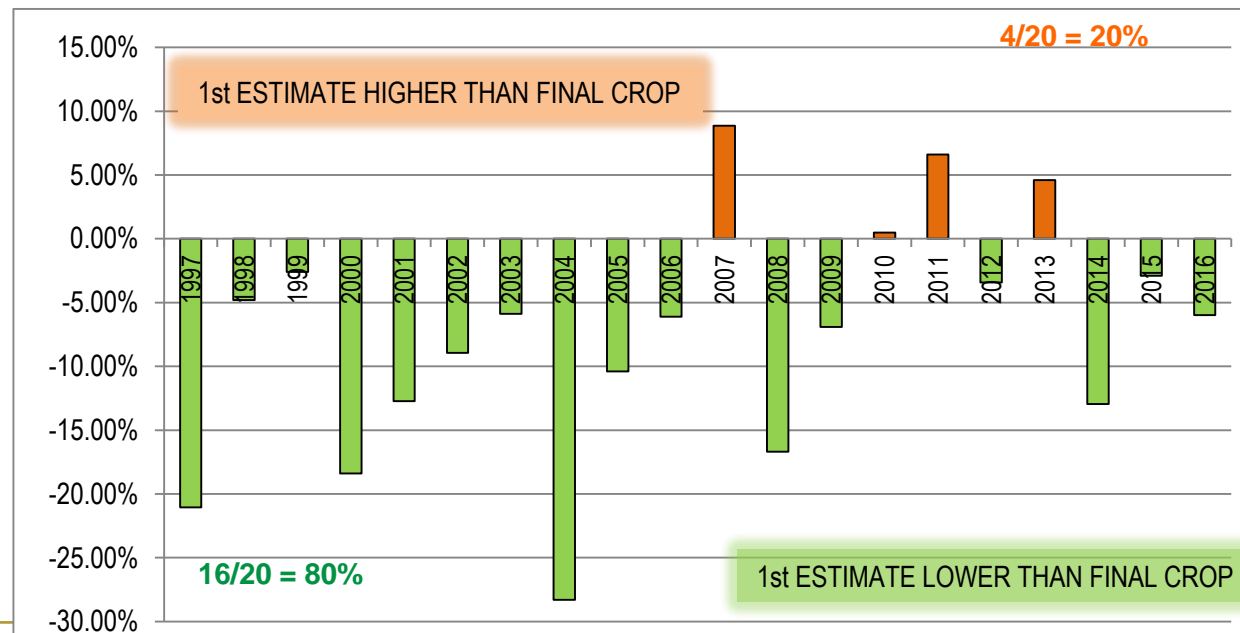








Maize



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MAIZE

- **Ratio of areas planted:**

✓ **WM = 52%** (55% during 2015)

✓ **YM = 48%** (45% during 2015)

- **Area under irrigation:**

✓ **WM = 82 025 ha (8,1%)** (75 700 ha (5,2%))

✓ **YM = 158 500 ha (17,0%)** (156 000 ha) (13,0%))

✓ **Total = 240 525 ha (12,4%)**



**SORGHUM =
70 500 tons**

2016 SORGHUM CROP		
(A)	Actual deliveries (SAGIS)	66 213
	Mrch 2016	1 355
	Apr 2016	1 080
	May 2016	11 054
	Jun 2016	26 466
	Jul 2016	10 897
	Aug 2016	7 285
	Sep 2016	3 044
	Oct 2016	1 199
	Nov 2016	1 904
	Dec 2016	1 929
(B)	Projected deliveries (Historic trend(s) SAGIS)	1 787
	Jan 2017	
	Feb 2017	
	(A) + (B) (Mrch 2016 - Feb 2017)	68 000
(C)	Estimated Retentions	1 978
(D)	Estimated Seed	522
(E)	Total crop = SAGIS + Retentions (A) + (B) + (C) + (D)	70 500
(F)	CEC	74 150
	Difference (CEC (F) - Total Crop (E))	3 650

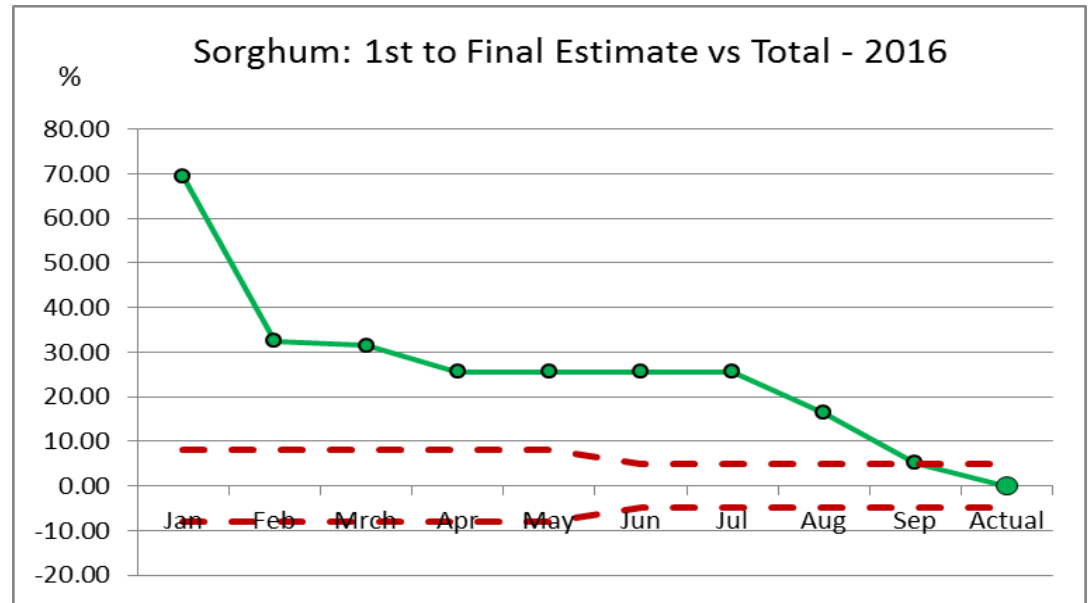
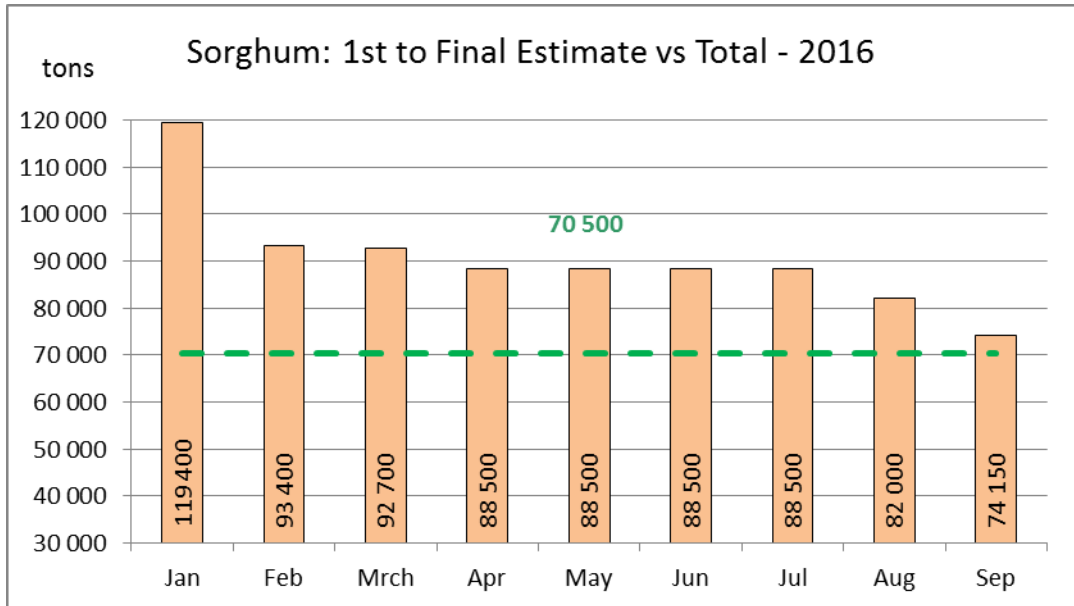
(tons) CEC deviation from recalculated crop: (%)

48 900	Jan	69.36	
22 900	Feb	32.48	
22 200	Mrch	31.49	Within 8%
18 000	Apr	25.53	
18 000	May	25.53	
18 000	Jun	25.53	
18 000	Jul	25.53	Within 5%
11 500	Aug	16.31	
3 650	Sep	5.18	



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SUNFLOWER SEED

755 000 tons

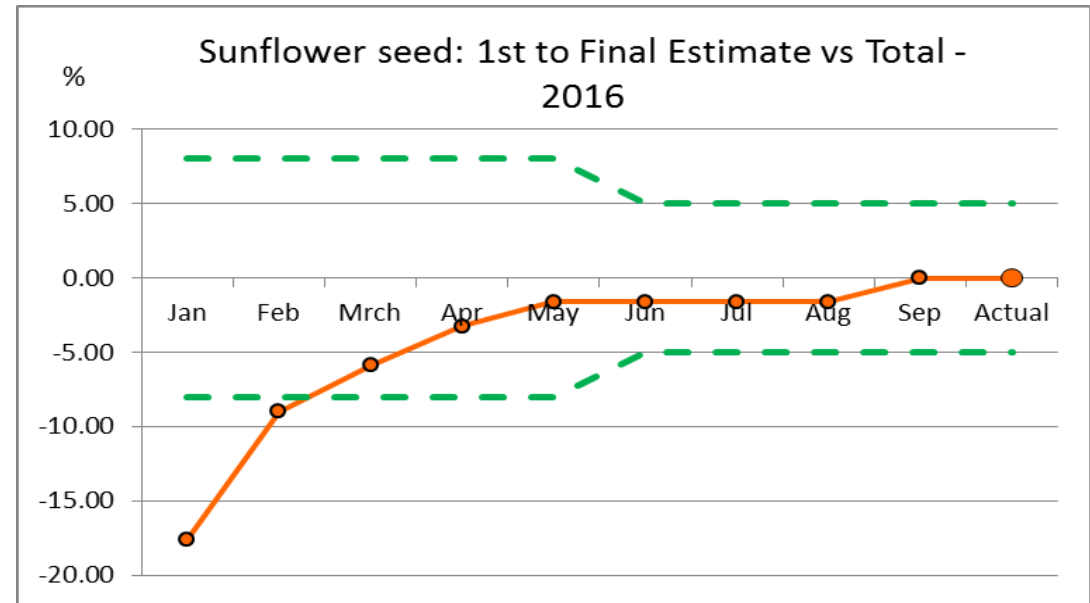
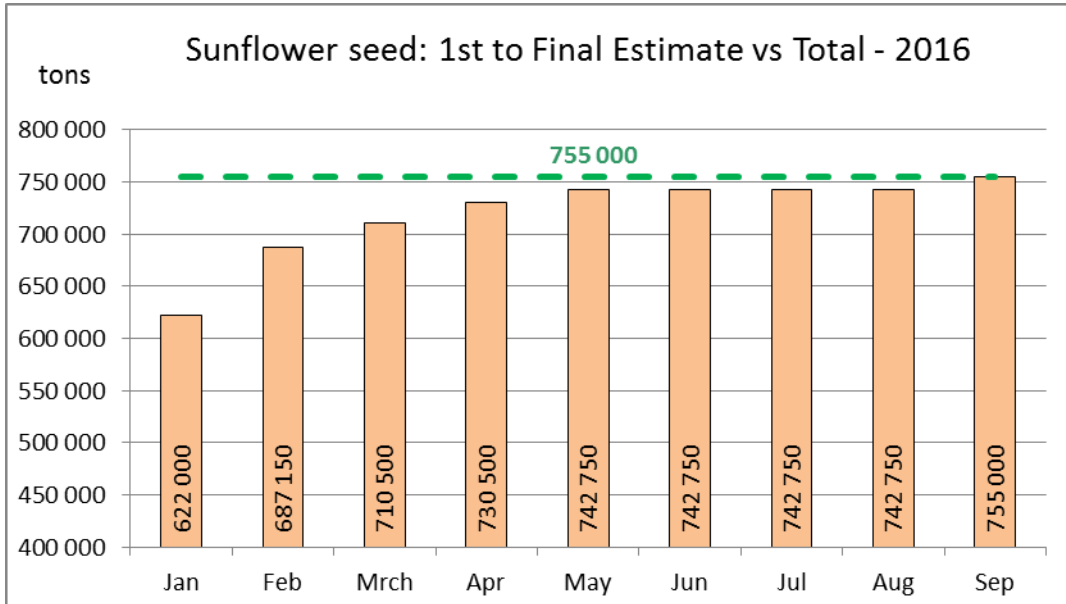
2016 SUNFLOWER SEED CROP		
(A)	Actual deliveries (SAGIS)	751 705
	Mrch 2016	8 884
	Apr 2016	43 260
	May 2016	89 165
	Jun 2016	391 599
	Jul 2016	180 869
	Aug 2016	26 060
	Sep 2016	6 626
	Oct 2016	2 555
	Nov 2016	2 019
	Dec 2016	668
(B)	Projected deliveries (Historic trend(s) SAGIS)	3 295
	Jan 2017	
	Feb 2017	
(A) + (B)	(Mrch 2016 - Feb 2017)	755 000
(C)	Estimated Retentions (DAFF Survey)	0
(D)	Total crop = SAGIS + Retentions (A) + (B) + (C)	755 000
(E)	CEC	755 000
	Difference (CEC (E) - Total Crop (D))	0

(tons)	CEC deviation from recalculated crop:	(%)	
- 133 000	Jan	-17.62	
- 67 850	Feb	-8.99	Within 8%
- 44 500	Mrch	-5.89	
- 24 500	Apr	-3.25	
- 12 250	May	-1.62	
- 12 250	Jun	-1.62	Within 5%
- 12 250	Jul	-1.62	
- 12 250	Aug	-1.62	
0	Sep	0.00	



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SOYBEANS

742 000 tons

2016 SOYBEAN CROP		
(A)	Actual deliveries (SAGIS)	704 286
	Mrch 2016	31 812
	Apr 2016	382 116
	May 2016	240 729
	Jun 2016	24 802
	Jul 2016	9 428
	Aug 2016	4 505
	Sep 2016	3 087
	Oct 2016	2 038
	Nov 2016	2 841
	Dec 2016	2 928
(B)	Projected deliveries (Historic trend(s) SAGIS)	5 714
	Jan 2017	
	Feb 2017	
(A) + (B)	(Mrch 2016 - Feb 2017)	710 000
(C)	Estimated Retentions/on-farm seed (DAFF Survey)	32 000
(D)	Total crop = SAGIS + Retentions (A) + (B) + (C)	742 000
(E)	CEC	741 550
	Difference (CEC (E) - Total Crop (D))	- 450

(tons)	CEC deviation from recalculated crop:	(%)
26 560	Jan	3.58
- 17 400	Feb	-2.35
- 50 250	Mrch	-6.77
- 47 450	Apr	-6.39
- 13 350	May	-1.80
- 13 350	Jun	-1.80
8 250	Jul	1.11
8 250	Aug	1.11
- 450	Sep	-0.06

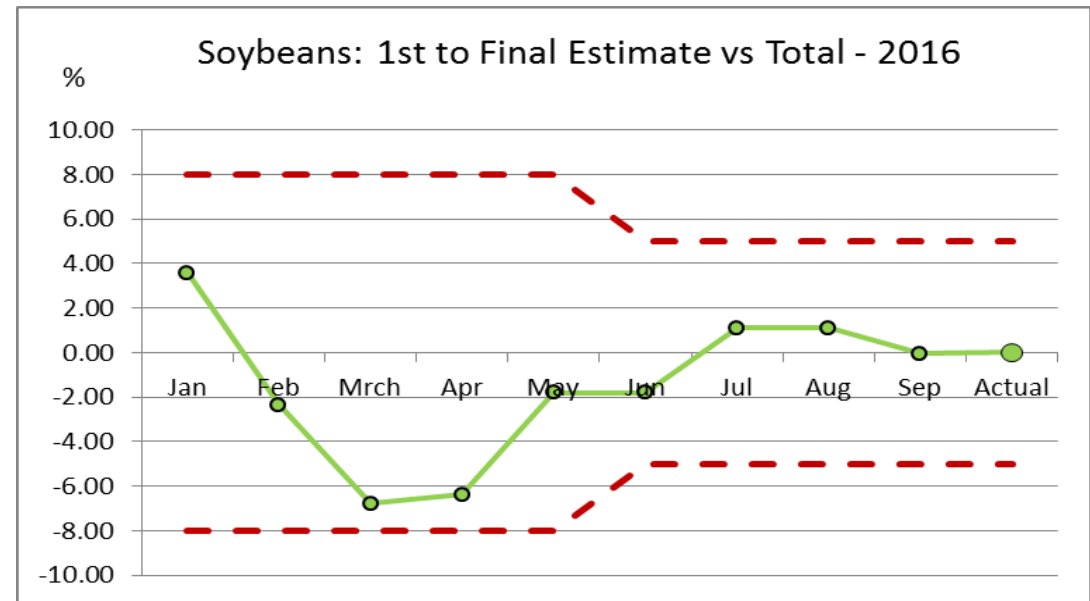
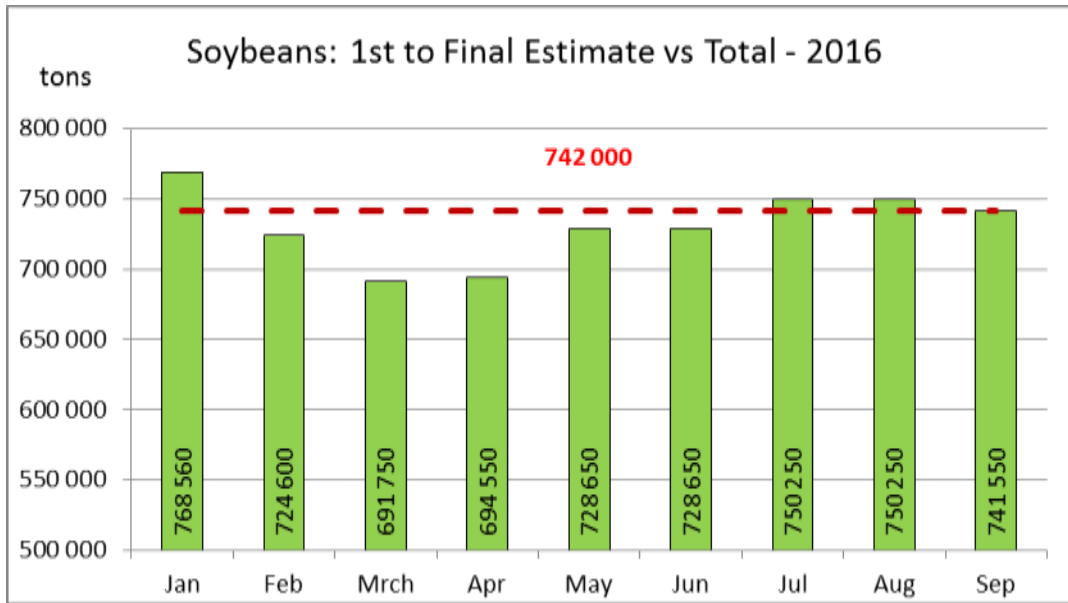
Within 8%

Within 5%



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GROUNDNUTS

17 680 tons

2016 GROUNDNUTS CROP		
(A)	Actual deliveries (SAGIS)	17 177
	Mrch 2016	58
	Apr 2016	2 468
	May 2016	4 665
	Jun 2016	5 459
	Jul 2016	2 455
	Aug 2016	1 149
	Sep 2016	826
	Oct 2016	81
	Nov 2016	16
	Dec 2016	0
(B)	Projected deliveries (Historic trend(s) SAGIS)	0
	Jan 2017	
	Feb 2017	
	(A) + (B) (Mrch 2016 - Feb 2017)	17 177
(C)	Estimated Retentions/on-farm seed (DAFF Survey)	503
(D)	Total crop = SAGIS + Retentions (A) + (B) + (C)	17 680
(E)	CEC	18 850
	Difference (CEC (E) - Total Crop (D))	1 170

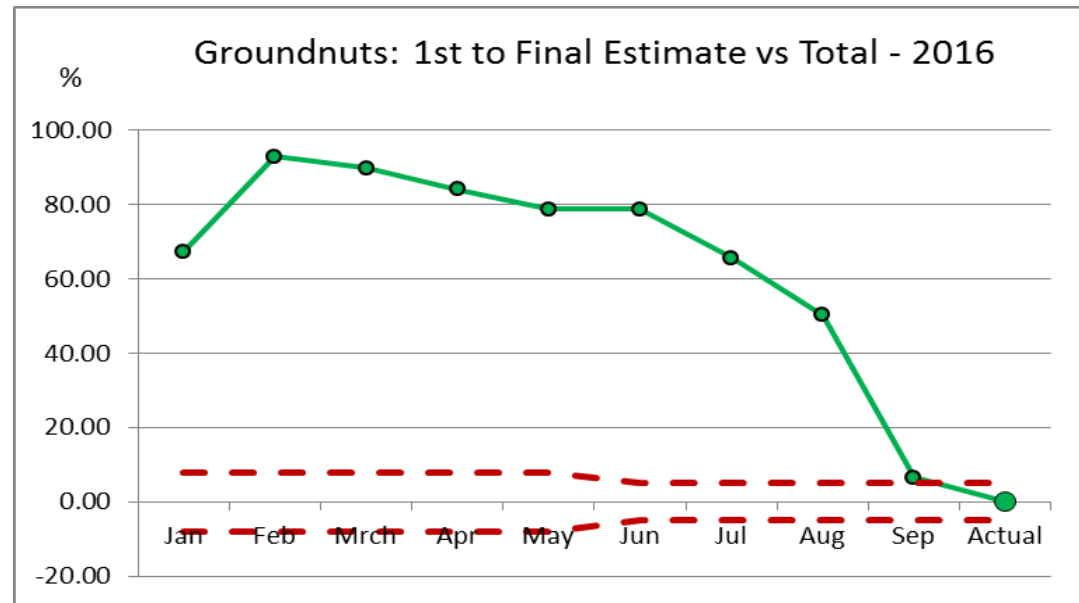
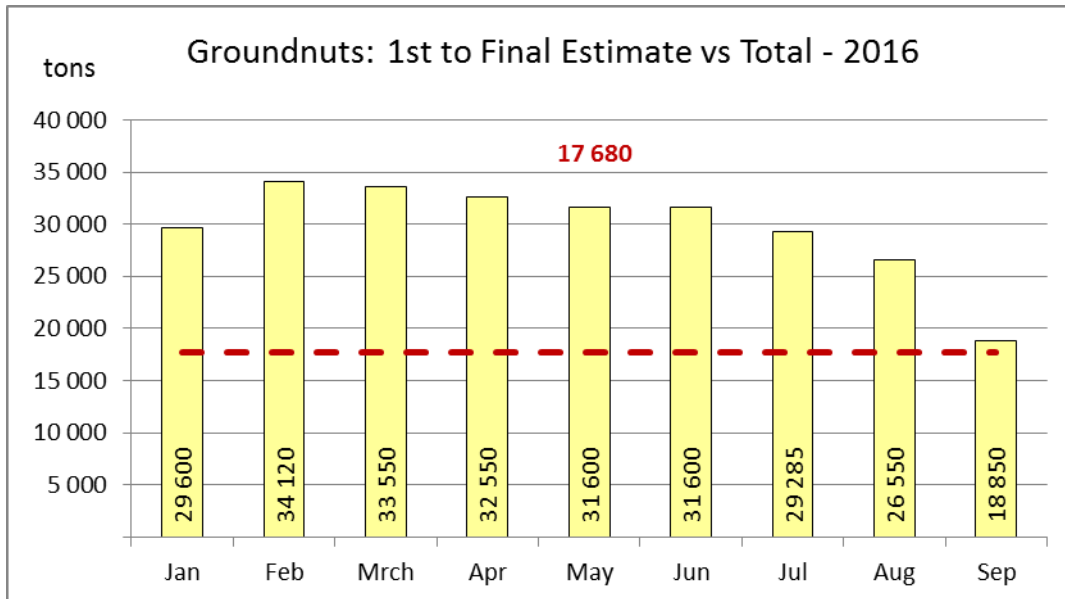
(tons) CEC deviation from recalculated crop: (%)

11 920	Jan	67.42	
16 440	Feb	92.99	
15 870	Mrch	89.76	Within 8%
14 870	Apr	84.11	
13 920	May	78.73	
13 920	Jun	78.73	
11 605	Jul	65.64	Within 5%
8 870	Aug	50.17	
1 170	Sep	6.62	



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Summary

	Total crop Feb 2017	CEC Final estimate Sep 2016	Difference Total vs CEC	Difference Deviation Total vs CEC
	Tons	Tons	Tons	%
	B	A	B-A	B/A
White maize	3 408 500	3 253 775	+154 725	+4,8
Yellow maize	4 370 000	4 283 100	+86 900	+2,0
Total maize	7 778 500	7 536 875	+241 625	+3,2
Sunflower seed	755 000	755 000	0	-
Soybeans	742 000	741 550	+450	+0,1
Groundnuts	17 680	18 850	-1 170	-6,2
Sorghum	70 500	74 150	-3 650	-4,9



We would like to thank the following institutions for their inputs/additional information:

- **SAGIS**
- **Grain SA**
- **SACOTA**
- **Soya Workgroup**
- **Groundnut Processors**
- **Agbiz Grain**
- **Producers**
- **NCSC**
- **PDA's**

THANK YOU



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