

## **2006 Evaluation of Short Season Corn Hybrids in Ohio: Planting Date Effects**

Peter Thomison\*, Allen Geyer, and Rich Minyo  
Horticulture & Crop Science  
Ohio State University  
Columbus, OH 43210  
\*e-mail: thomison.1@osu.edu

In one out of five years, a significant number of corn acres are planted late in Ohio, usually as the result of excessive rainfall. Corn replanted due to flooding, hail, frost injury, or other early season stand establishment problem also contributes to this late-planted corn acreage. Nearly 50% of corn acres were planted after May 25 in 1999 and 2002. In 2005, a record number of corn acres were replanted in mid-May because of low temperature damage to corn in late April.

Adapted or 'commonly grown' hybrid maturities (usually >104 day relative maturity) can be planted in Ohio as late as early to mid June. However, because of the lower yields and higher grain moisture associated with the late planting of commonly grown hybrid maturities, most farmers switch to soybeans after June 1. Short season hybrids (less than 105 days relative maturity) mature earlier and dry down better than commonly grown maturities in late plantings, but they have often not been acceptable in terms of their pest resistance and other stress tolerance traits, as well as grain and stalk quality characteristics. Since many short season hybrids contain the Bt trait that resists second generation ECB, short season hybrids may now offer corn growers a better management option as a late crop than in the past. Limited research has been conducted assessing the potential of short season corn hybrids in late planting environments in Ohio and the Eastern Corn Belt.

In 2005 we initiated a study with the goal of developing a better understanding of short season hybrid response to late planting conditions in Ohio, with regard to yield potential, stalk and grain quality. We repeated the study in 2006. The specific objective of this study was to compare effects of late plantings on the agronomic performance of short season hybrids and commonly grown hybrid maturities across a range of production environments in Ohio.

We conducted performance trials at three Ohio locations in 2006 to evaluate the agronomic performance of short season corn hybrids across a range of environmental conditions across Ohio. Tests were established at South Charleston in SW Ohio, Hoytville in NW Ohio and Apple Creek in NE Ohio. Twenty-two corn hybrids representing a range of maturities from 97 to 111 days relative maturity and ten seed companies (Monsanto, Bird Hybrids, Corn Belt Hybrids, Doebler's, Garst, LG Seeds, Pioneer, Rupp and Seed Consultants) were evaluated. Thirteen of these 22 hybrids contained the Bt gene for European corn borer resistance. Nineteen of the 22 hybrids were commonly grown

maturity hybrids selected from entries in the Ohio State University 2006 Ohio Corn Performance Tests with maturities ranging from 97 to 111 days. In addition to maturity, the selection of these hybrids was based on their entry in the OCPT at each of the three test locations. Maturities of the remaining 3 hybrids were 100 days or earlier. Several of these short season hybrids were also entries in the 2006 Ohio Corn Performance Test. Maturity designations are shown in the summary tables.

Data from the tests were analyzed as a three replication, randomized complete block design experiment at each location. The least significant differences at probability level 0.05 (LSD 0.05) and coefficients of variation (CV%) were calculated from the location analysis of variance. A combined analysis of variance was conducted on data from the three test locations. Data was collected for grain yield, harvest moisture, stalk lodging and final stand.

Table 1 indicates planting and harvest dates, cultural practices, plot dimensions, and soil types associated with each test. Growing season rainfall and air temperatures along with long-term averages are shown in Tables 2 and 3, respectively.

## **RESULTS**

### **Growing Season**

Growing season rainfall (Table 2) was above average at South Charleston and Hoytville. Temperatures (Table 3) were close normal throughout the growing season at all test sites.

### **Agronomic Data**

Grain yields ranged from 83.0 to 183.9 Bu/A at South Charleston (Table 4), 137.8 to 199.9 Bu/A at Hoytville (Table 5), and 141.0 to 183.8 Bu/A at Apple Creek (Table 6).

Grain moisture ranged from 19.3-24.0% at South Charleston (Table 4), 21.4-33.9% at Hoytville (Table 5) and from 20.9-26.1% at Apple Creek.

Tables 8-11 show the agronomic performance of these short-season hybrids that were planted in the Ohio Corn Performance Test. The Ohio Corn Performance Tests were planted early - in April and early May - in fields adjacent to the late-planted short season hybrid evaluations, which were planted 5 to 6 weeks later. These 22 hybrids averaged 184.1 Bu/A planted early and 158.7 Bu/A planted late (Table 11).

## **SUMMARY**

The results, averaged across the three test locations (Table 7), suggest that short season hybrids are available with yields comparable to commonly grown maturities in late planting environments. Grain moisture levels were

considerably lower for some of the short season hybrids than the commonly grown hybrid maturities. These differences were most pronounced at Hoytville (Table 5). At the test site with a highest level of stalk lodging, South Charleston (Table 4), most of the short season hybrids showed levels of stalk lodging comparable to commonly grown maturities.

Table 1. Test plot locations, cultural practices and soil types for the 2006 evaluation of late planted short season corn hybrids.

Location	Planting Date	Tillage	Seeding Rate	Harvest Date	Previous Crop	Plot Size	Soil Type
OARDC Western Branch S. Charleston Clark County West Central Ohio	4/28/06 6/14/06	Conv	32,000	10/26/06 12/6/06	Soybean	10' X 25'	Kokomo Silt Loam
OARDC Northwest Branch Near Hoytville Wood County Northwest Ohio	4/27/06 6/12/06	Stale Seedbed	32,000	10/25/06 11/2/06	Soybean	10' X 25'	Hoytville Clay
OARDC Badger Farm Near Wooster Wayne County Northeast Ohio	5/1/06 6/9/06	Conv	32,000	11/2/06 12/8/06	Wheat	10' X 25'	Canfield Silt Loam

Table 2. Precipitation data for the 2006 evaluation of late planted short season corn hybrids.

Month	S. Charleston	Hoytville	Apple Creek <sup>†</sup>
-----inches-----			
April	3.2 (4.0) <sup>‡</sup>	1.7 (3.2)	1.5 (3.3)
May	2.8 (4.6)	5.8 (3.5)	5.8 (3.9)
June	2.7 (4.2)	4.6 (3.7)	4.1 (3.9)
July	3.6 (4.1)	5.1 (3.8)	6.5 (4.1)
Aug	4.5 (3.5)	1.9 (3.6)	1.3 (3.6)
Sept	5.2 (3.0)	3.0 (2.6)	2.9 (3.1)
Oct	8.8 (2.3)	4.5 (2.4)	4.6 (2.3)
Total	30.8 (25.7)	26.6 (22.8)	26.7 (24.2)

<sup>†</sup> Data for Wooster

<sup>‡</sup> long term averages in parentheses

Table 3. Average air temperature for the 2006 evaluation of late planted short season corn hybrids.

Month	S. Charleston	Hoytville	Apple Creek <sup>†</sup>
-----degrees F-----			
April	54.5 (51.0) <sup>‡</sup>	52.7 (48.9)	52.8 (48.1)
May	59.9 (61.3)	59.9 (59.8)	58.3 (58.5)
June	68.1 (70.3)	68.0 (69.5)	66.2 (67.6)
July	74.1 (73.8)	74.0 (72.8)	73.2 (71.5)
Aug	72.5 (72.0)	71.6 (70.6)	71.9 (69.9)
Sept	61.4 (65.2)	61.3 (64.0)	61.0 (63.4)
Oct	50.5 (53.9)	49.3 (52.5)	49.6 (52.1)
Total	63.0 (63.9)	62.4 (62.6)	61.9 (61.6)

<sup>†</sup> Data for Wooster

<sup>‡</sup> long term averages in parentheses

Table 4. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of late planted short season corn hybrids, South Charleston, OH.

Brand/Hybrid	Bt	CRM days	GDD	Yield -Bu/A-	Moist ---%---	Lodged -----%-----	Final Stand -plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	132.0	24.0	93.3	32129
Bird Hybrids B17V		98	2175	142.9	20.3	50.0	28175
Bird Hybrids B18		99	2180	138.4	20.0	83.3	30646
Bird Hybrids B19		100	2190	114.8	20.6	23.3	30770
Corn Belt Hybrids X5063		100	NA	140.9	20.7	100.0	30646
DeKalb DKC52-40	X	102	2550	114.9	20.3	80.0	32129
DeKalb DKC52-63		102	2550	147.7	21.0	81.7	29658
DeKalb DKC54-46	X	104	2585	118.1	20.5	100.0	29905
DeKalb DKC55-12	X	105	2630	154.8	21.6	100.0	28916
DeKalb DKC61-22		111	2775	170.3	22.4	100.0	30646
DeKalb DKC61-45	X	111	2775	151.2	20.7	100.0	32500
Doebler's 468RB	X	97	NA	155.8	19.7	63.3	28793
Garst 8689IT		104	2500	183.9	19.9	86.7	29287
LG Seeds LG2517BT	X	103	2500	109.0	19.8	100.0	32253
Pioneer 34A18	X	109	NA	169.0	22.0	76.7	33242
Rupp XR1609		101	2410	102.6	20.0	43.3	33489
Rupp XR8628		100	NA	146.3	20.1	93.3	31388
Seed Consultants 10BR91	X	109	NA	129.6	23.0	80.0	31017
Seed Consultants SC10B36	X	103	NA	142.0	20.3	43.3	29287
Seed Consultants SC10BL96	X	109	NA	133.4	19.3	100.0	28175
Seed Consultants SC10H25	X	102	NA	152.9	19.7	83.3	30523
Seed Consultants SC10H27	X	102	NA	83.0	20.9	96.7	33859
Site High				183.9	24.0	100.0	33859
Site Average				137.9	20.8	80.8	30792
Site Low				83.0	19.3	23.3	28175
LSD (0.05)				42.8	2.1	37.5	2685
CV (%)				18.8	6.0	28.1	5.3

Table 5. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of late planted short season corn hybrids, Hoytville, OH.

Brand/Hybrid	Bt	CRM	GDD	Yield	Moist	Lodged	Final Stand
		days		--Bu/A--	---%---	---%---	-plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	179.0	33.9	21.7	30646
Bird Hybrids B17V		98	2175	159.2	24.7	11.0	28175
Bird Hybrids B18		99	2180	146.8	21.4	20.1	33365
Bird Hybrids B19		100	2190	151.4	24.9	5.9	31759
Corn Belt Hybrids X5063		100	NA	160.0	24.2	13.7	31882
DeKalb DKC52-40	X	102	2550	185.7	24.7	9.5	30399
DeKalb DKC52-63		102	2550	192.5	26.3	2.1	29781
DeKalb DKC54-46	X	104	2585	186.4	26.5	0.0	29411
DeKalb DKC55-12	X	105	2630	192.6	26.2	4.2	30152
DeKalb DKC61-22		111	2775	179.8	32.3	3.4	32624
DeKalb DKC61-45	X	111	2775	187.2	26.0	1.5	31882
Doebler's 468RB	X	97	NA	173.7	23.8	6.9	28916
Garst 8689IT		104	2500	179.3	25.3	26.9	30770
LG Seeds LG2517BT	X	103	2500	182.6	26.5	4.7	32500
Pioneer 34A18	X	109	NA	199.9	27.2	7.4	33118
Rupp XR1609		101	2410	172.5	27.6	5.0	34601
Rupp XR8628		100	NA	174.8	27.2	5.3	32871
Seed Consultants 10BR91	X	109	NA	137.8	30.2	20.5	32500
Seed Consultants SC10B36	X	103	NA	172.8	26.4	8.9	31759
Seed Consultants SC10BL96	X	109	NA	184.7	29.3	18.6	29905
Seed Consultants SC10H25	X	102	NA	189.8	27.2	7.7	32871
Seed Consultants SC10H27	X	102	NA	184.5	26.0	7.2	32747
Site High				199.9	33.9	25.9	34601
Site Average				176.0	26.7	9.6	31483
Site Low				137.8	21.4	0.0	28175
LSD (0.05)				22.0	1.8	15.4	1813
CV (%)				7.6	4.2	96.7	3.5

Table 6. Yield, harvest moisture, stalk lodging, final stand and test weight, 2006 evaluation of late planted short season corn hybrids, Apple Creek, OH.

Brand/Hybrid	Bt	CRM	GDD	Yield	Moist	Lodge	Final Stand
		days		-Bu/A-	--%--	---%---	-plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	178.1	26.0	49.0	31017
Bird Hybrids B17V		98	2175	149.5	22.4	17.0	23850
Bird Hybrids B18		99	2180	151.4	20.9	40.0	32006
Bird Hybrids B19		100	2190	154.1	23.1	20.3	31017
Corn Belt Hybrids X5063		100	NA	141.0	22.5	78.6	26816
DeKalb DKC52-40	X	102	2550	183.8	21.8	22.1	28051
DeKalb DKC52-63		102	2550	181.8	22.4	52.9	28557
DeKalb DKC54-46	X	104	2585	158.9	23.3	75.7	28669
DeKalb DKC55-12	X	105	2630	142.6	21.7	80.7	26445
DeKalb DKC61-22		111	2775	167.8	26.1	21.8	30894
DeKalb DKC61-45	X	111	2775	170.2	22.5	74.5	29905
Doebler's 468RB	X	97	NA	161.2	22.1	21.3	28793
Garst 8689IT		104	2500	170.9	23.1	81.1	31388
LG Seeds LG2517BT	X	103	2500	160.8	21.9	55.5	29287
Pioneer 34A18	X	109	NA	178.8	25.2	30.3	30399
Rupp XR1609		101	2410	150.4	24.4	9.6	30523
Rupp XR8628		100	NA	176.4	22.9	75.1	31388
Seed Consultants 10BR91	X	109	NA	166.6	25.5	78.1	30646
Seed Consultants SC10B36	X	103	NA	174.0	22.6	80.1	28175
Seed Consultants SC10BL96	X	109	NA	172.0	23.2	80.0	26692
Seed Consultants SC10H25	X	102	NA	173.8	22.6	54.6	30399
Seed Consultants SC10H27	X	102	NA	174.0	24.2	54.5	32253
Site High				183.8	26.1	81.1	32253
Site Average				165.4	23.2	52.4	29417
Site Low				141.0	20.9	9.6	23850
LSD (0.05)				18.8	1.0	29.8	4161
CV (%)				6.9	2.7	34.5	8.6

Table 7. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of late planted short season corn hybrids, averaged across 3 Ohio locations.

Brand/Hybrid	Bt	CRM	GDD	Yield	Moist	Lodge	Final Stand
		days		-Bu/A-	--%--	---%---	-plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	163.0	28.0	54.7	31264
Bird Hybrids B17V		98	2175	150.6	22.5	26.0	26733
Bird Hybrids B18		99	2180	145.5	20.8	47.8	32006
Bird Hybrids B19		100	2190	140.1	22.9	16.5	31182
Corn Belt Hybrids X5063		100	NA	147.3	22.5	64.1	29781
DeKalb DKC52-40	X	102	2550	161.5	22.3	37.2	30193
DeKalb DKC52-63		102	2550	174.0	23.2	45.6	28999
DeKalb DKC54-46	X	104	2585	154.5	23.4	58.6	29328
DeKalb DKC55-12	X	105	2630	163.4	23.2	61.6	28505
DeKalb DKC61-22		111	2775	172.6	26.9	41.7	31388
DeKalb DKC61-45	X	111	2775	169.5	23.1	58.7	31429
Doebler's 468RB	X	97	NA	163.6	21.9	30.5	28834
Garst 8689IT		104	2500	178.0	22.8	64.9	30482
LG Seeds LG2517BT	X	103	2500	150.8	22.7	53.4	31347
Pioneer 34A18	X	109	NA	182.6	24.8	38.1	32253
Rupp XR1609		101	2410	141.8	24.0	19.3	32871
Rupp XR8628		100	NA	165.9	23.4	57.9	31882
Seed Consultants 10BR91	X	109	NA	144.7	26.3	59.5	31388
Seed Consultants SC10B36	X	103	NA	162.9	23.1	44.1	29740
Seed Consultants SC10BL96	X	109	NA	163.3	24.0	66.2	28257
Seed Consultants SC10H25	X	102	NA	172.1	23.2	48.5	31264
Seed Consultants SC10H27	X	102	NA	147.2	23.7	52.8	32953
Site High				182.6	26.3	66.2	32953
Site Average				159.8	23.6	47.6	30549
Site Low				140.1	24.0	16.5	26733
LSD (0.05)				16.9	1.0	16.4	1724
CV (%)				11.3	4.4	37.0	6.1

Table 8. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of early planted short season corn hybrids, South Charleston, OH.

Brand/Hybrid	Bt	CRM days	GDD	Yield -Bu/A-	Moist ---%---	Lodged -----%-----	Final Stand -plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	174.8	20.5	3	29000
Bird Hybrids B17V		98	2175	174.7	18.4	1	28200
Bird Hybrids B18		99	2180	166.3	17.7	2	29400
Bird Hybrids B19		100	2190	186.5	17.9	2	30200
Corn Belt Hybrids X5063		100	NA	179.7	17.1	1	30800
DeKalb DKC54-46	X	104	2585	223.6	17.9	1	30900
DeKalb DKC61-22		111	2775	208.1	19.0	5	32300
DeKalb DKC61-45	X	111	2775	224.1	19.2	3	31300
Doebler's 468RB	X	97	NA	186.5	18.1	0	29400
Garst 8689IT		104	2500	201.5	18.1	0	27400
LG Seeds LG2517BT	X	103	2500	209.8	17.2	9	29000
Pioneer 34A18	X	109	NA	208.2	20.9	0	33100
Rupp XR1609		101	2410	172.1	18.6	0	29300
Rupp XR8628		100	NA	199.0	17.9	6	30900
Seed Consultants 10BR91	X	109	NA	192.5	19.7	5	28400
Seed Consultants SC10B36	X	103	NA	190.5	17.8	2	29800
Seed Consultants SC10BL96	X	109	NA	172.4	20.1	0	26600
Seed Consultants SC10H25	X	102	NA	192.6	17.8	1	30500
Seed Consultants SC10H27	X	102	NA	205.1	18.4	3	30600

Table 9. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of early planted short season corn hybrids, Hoytville, OH.

Brand/Hybrid	Bt	CRM days	GDD	Yield -Bu/A-	Moist ---%---	Lodged -----%-----	Final Stand -plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	176.3	20.8	4	31500
Bird Hybrids B17V		98	2175	147.7	17.7	0	30900
Bird Hybrids B18		99	2180	153.1	17.5	1	34600
Bird Hybrids B19		100	2190	147.5	16.9	0	32900
Corn Belt Hybrids X5063		100	NA	144.5	17.3	0	30800
DeKalb DKC54-46	X	104	2585	172.3	17.7	13	32800
DeKalb DKC61-22		111	2775	177.7	18.5	3	32200
DeKalb DKC61-45	X	111	2775	165.4	18.9	0	31800
Doebler's 468RB	X	97	NA	147.0	17.1	1	28500
Garst 8689IT		104	2500	173.3	18.0	2	31500
LG Seeds LG2517BT	X	103	2500	138.2	17.6	4	29800
Pioneer 34A18	X	109	NA	182.7	19.9	2	32500
Rupp XR1609		101	2410	146.8	18.2	1	32700
Rupp XR8628		100	NA	162.1	17.4	3	32200
Seed Consultants 10BR91	X	109	NA	156.5	17.8	1	30800
Seed Consultants SC10B36	X	103	NA	153.5	17.2	2	28200
Seed Consultants SC10BL96	X	109	NA	174.7	18.7	1	26700
Seed Consultants SC10H25	X	102	NA	163.9	17.4	1	29700
Seed Consultants SC10H27	X	102	NA	155.7	17.1	3	32300
Site High				181.0	21.1	50	38000
Site Average				159.4	18.0	6	31200
Site Low				137.5	16.5	0	27400
LSD (0.05)				15.7	0.6	8	2000

Table 10. Yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of early planted short season corn hybrids, Apple Creek, OH.

Brand/Hybrid	Bt	CRM days	GDD	Yield -Bu/A-	Moist ---%---	Lodged -----%-----	Final Stand -plants/A-
Asgrow RX715RR2/YGCB	X	111	NA	205.2	25.0	0	30900
Bird Hybrids B17V		98	2175	183.8	19.1	4	32300
Bird Hybrids B18		99	2180	206.3	18.9	1	33100
Bird Hybrids B19		100	2190	181.8	18.3	3	34000
Corn Belt Hybrids X5063		100	NA	172.3	18.6	55	31500
DeKalb DKC54-46	X	104	2585	199.0	19.0	27	30800
DeKalb DKC61-22		111	2775	226.5	22.6	20	32400
DeKalb DKC61-45	X	111	2775	221.6	23.1	17	32100
Doebler's 468RB	X	97	NA	179.3	18.4	34	28100
Garst 8689IT		104	2500	204.8	20.4	1	29700
LG Seeds LG2517BT	X	103	2500	205.4	19.0	18	34800
Pioneer 34A18	X	109	NA	223.3	23.6	3	33500
Rupp XR1609		101	2410	180.6	21.0	2	32300
Rupp XR8628		100	NA	181.7	18.8	20	31400
Seed Consultants 10BR91	X	109	NA	206.0	22.7	6	30400
Seed Consultants SC10B36	X	103	NA	183.4	19.1	3	28300
Seed Consultants SC10BL96	X	109	NA	224.3	21.7	5	29300
Seed Consultants SC10H25	X	102	NA	198.4	19.1	16	32100
Seed Consultants SC10H27	X	102	NA	200.6	19.8	5	31800
Site High				235.7	23.2	65	35100
Site Average				200.2	20.4	16	31000
Site Low				179.3	18.3	0	28100
LSD (0.05)				13.8	1.2	36	2200

Table 11. Planting date effects on yield, harvest moisture, stalk lodging and final stand, 2006 evaluation of short season hybrids, 3 Ohio locations.

Brand/Hybrid	Bt	CRM days	GDD	Yield		Moisture		Stalk Lodged		Final Stand	
				Early <sup>†</sup>	Late <sup>†</sup>	Early	Late	Early	Late	Early	Late
				----Bu/A----		-----%-----		-----%-----		----plants/A----	
Asgrow RX715RR2/YGCB	X	111	NA	190.0	163.0	19.7	28.0	2	55	31700	31264
Bird Hybrids B17V		98	2175	186.8	150.6	20.3	22.5	7	26	30300	26733
Bird Hybrids B18		99	2180	193.3	145.5	19.3	20.8	6	48	32300	32006
Bird Hybrids B19		100	2190	176.9	140.1	19.2	22.9	1	17	28100	31182
Corn Belt Hybrids X5063		100	NA	184.1	147.3	19.9	22.5	4	64	29400	29781
DeKalb DKC54-46	X	104	2585	184.1	154.5	20.3	23.4	5	59	30600	29328
DeKalb DKC61-22		111	2775	204.1	172.6	20.0	26.9	9	42	32300	31388
DeKalb DKC61-45	X	111	2775	162.7	169.5	18.1	23.1	3	59	30500	31429
Doebler's 468RB	X	97	NA	191.8	163.6	18.9	21.9	1	31	31900	28834
Garst 8689IT		104	2500	174.5	178.0	17.6	22.8	2	65	32300	30482
LG Seeds LG2517BT	X	103	2500	190.2	150.8	18.4	22.7	19	53	29700	31347
Pioneer 34A18	X	109	NA	180.7	182.6	18.3	24.8	9	38	30300	32253
Rupp XR1609		101	2410	178.9	141.8	17.9	24.0	12	19	29300	32871
Rupp XR8628		100	NA	187.7	165.9	18.0	23.4	9	58	31600	31882
Seed Consultants 10BR91	X	109	NA	184.2	144.7	18.8	26.3	3	60	31700	31388
Seed Consultants SC10B36	X	103	NA	182.8	162.9	19.9	23.1	1	44	32500	29740
Seed Consultants SC10BL96	X	109	NA	181.9	163.3	19.2	24.0	3	66	29800	28257
Seed Consultants SC10H25	X	102	NA	176.1	172.1	17.9	23.2	9	49	31700	31264
Seed Consultants SC10H27	X	102	NA	186.4	147.2	18.9	23.7	2	53	29900	32953
High				204.1	182.6	20.3	28.0	19	66	32300	32953
Average				184.1	158.7	19.0	23.7	6	48	30837	30757
Low				162.7	140.1	17.9	20.8	1	17	29400	26733

<sup>†</sup>Early – April 27 to May 1; Late – June 9 to June 14