

# **Municipal Gas Authority of Georgia Winter Service Plan 2016-17**

**Toccoa**

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In advance of the 2016-17 winter season, this plan has been prepared to communicate your design day needs. Please let us know if you have any questions.

### ACTION ITEMS

Feedback Requested:

Please review the Forecast Design Day on page 1 for both firm and interruptible load. Let us know if we have identified the interruptible demand (if applicable) correctly.

### SUMMARY

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### PHOTO CONTEST

This year's cover photo was taken by Lee Smoak (MGAG Staff) of Canton, GA.

Please be on the lookout for any great winter photo opportunities this season. Submit your photos to [ryoung@gasauthority.com](mailto:ryoung@gasauthority.com) to be entered in the contest for the 2017-18 Winter Service Plan cover photo. Employees of Member cities as well as MGAG staff are encouraged to participate. We look forward to highlighting our member cities in future years!!!

## Design Day Summary for 2016-17 Winter Toccoa

### Actual Peak Days (Dekatherms)

	<u>HDD</u>	<u>Date</u>	<u>Dth</u>
Historical 5-Year Peak:	38	02/18/15	10,941
Last Winter Peak Day:	36	02/09/16	9,824

\*Actual Peak Days include firm and interruptible load.

### Customers

		<u>Customer Count</u>
Active meters as of 12/31/2015	Firm:	6,528
	Interruptible:	8
	Total:	6,536

### Forecasted Design Day (Dekatherms)

	<u>Design Day Forecast</u>
Firm Forecasted Load at 51 HDD	9,531
Interruptible Demand	1,689
Total Design Day Demand	11,220

### Firm Services

	<u>2015-16 Capacity</u>	<u>Planned 2016-17</u>
Pipeline Capacity	6,993	6,993
Pine Needle/LGA/GSS Storage	3,933	3,933
Peaking Services	-	-
Propane Air Plant Capacity	-	-
Seasonal Capacity	-	-
<b>TOTAL FIRM SERVICES</b>	<b>10,926</b>	<b>10,926</b>
<b>Firm Surplus / (Deficit)</b>		<b>1,395</b>



## Interruptible Demand Toccoa

### Interruptible Service

Customers who receive all or a portion of their gas service without a guarantee of constant supply in return for a lower rate are interruptible. An interruptible customer typically has an alternate fuel that can be utilized when natural gas is curtailed. Each Gas Authority member city determines the exact curtailment procedures that apply in their respective service area. If the member city does not curtail the load as a matter of policy, the load is considered firm.

When a customer's load is classified as interruptible and subject to curtailment, that demand is not included in the firm design day requirements and capacity will not be reserved to serve them. Service will be maintained whenever possible utilizing capacity not needed for firm demand which will occur on many days.

### Interruptible Customers:

(Quantities in Dekatherms)

<u>Customer Name</u>	<u>2016-17 Design Day Forecast</u>
Columbia Farms	47
Fiedale Farms	994
Stephens Co. Hospital	129
Dewtex, Inc.	152
Catepillar, Inc.	127
Angel Medical	53
Shaw Ind.	110
C.W. Matthews - asphalt plant	77
Total	1,689

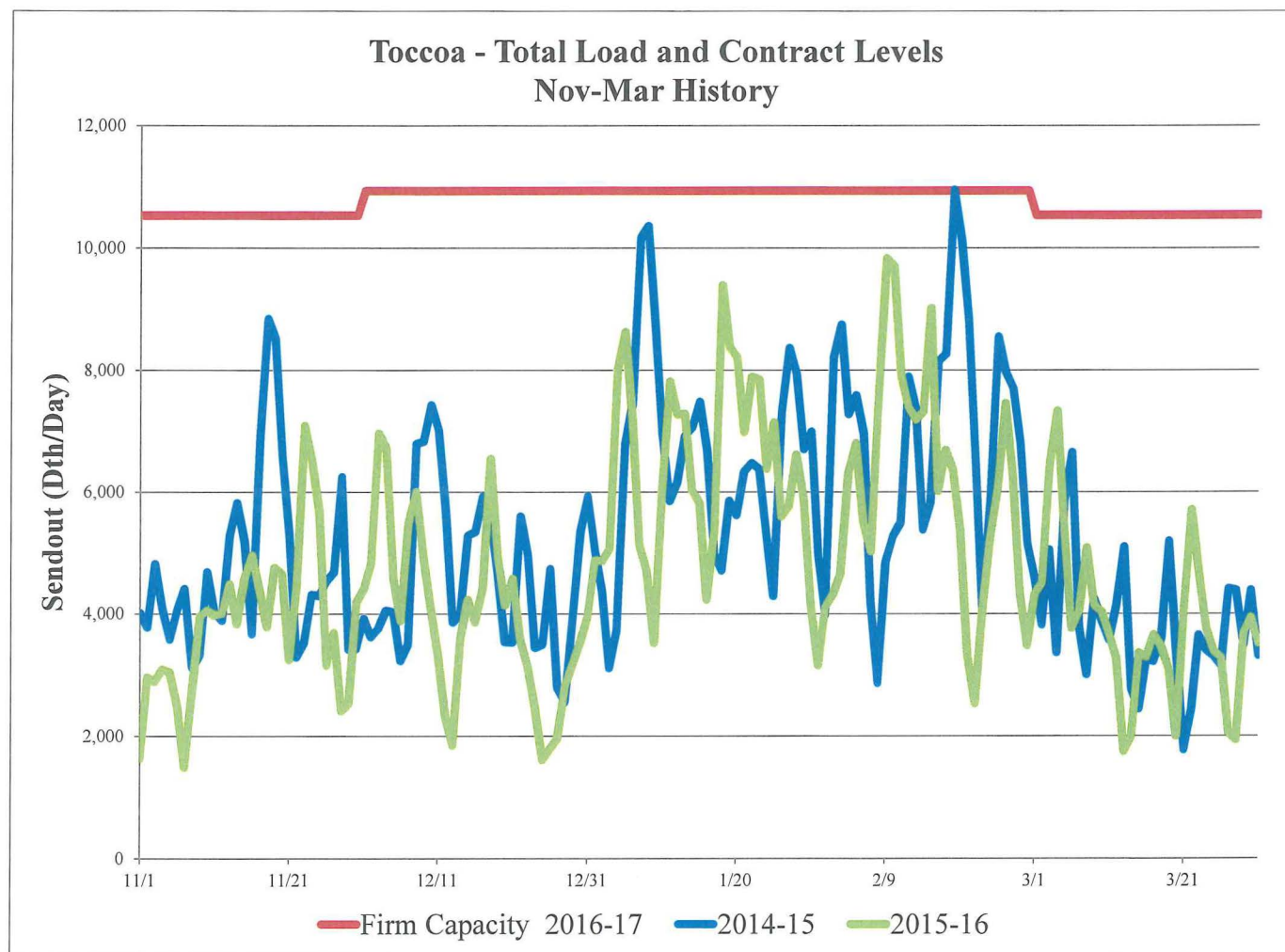
## Top 20 Peak Days - Last 5 Years Toccoa

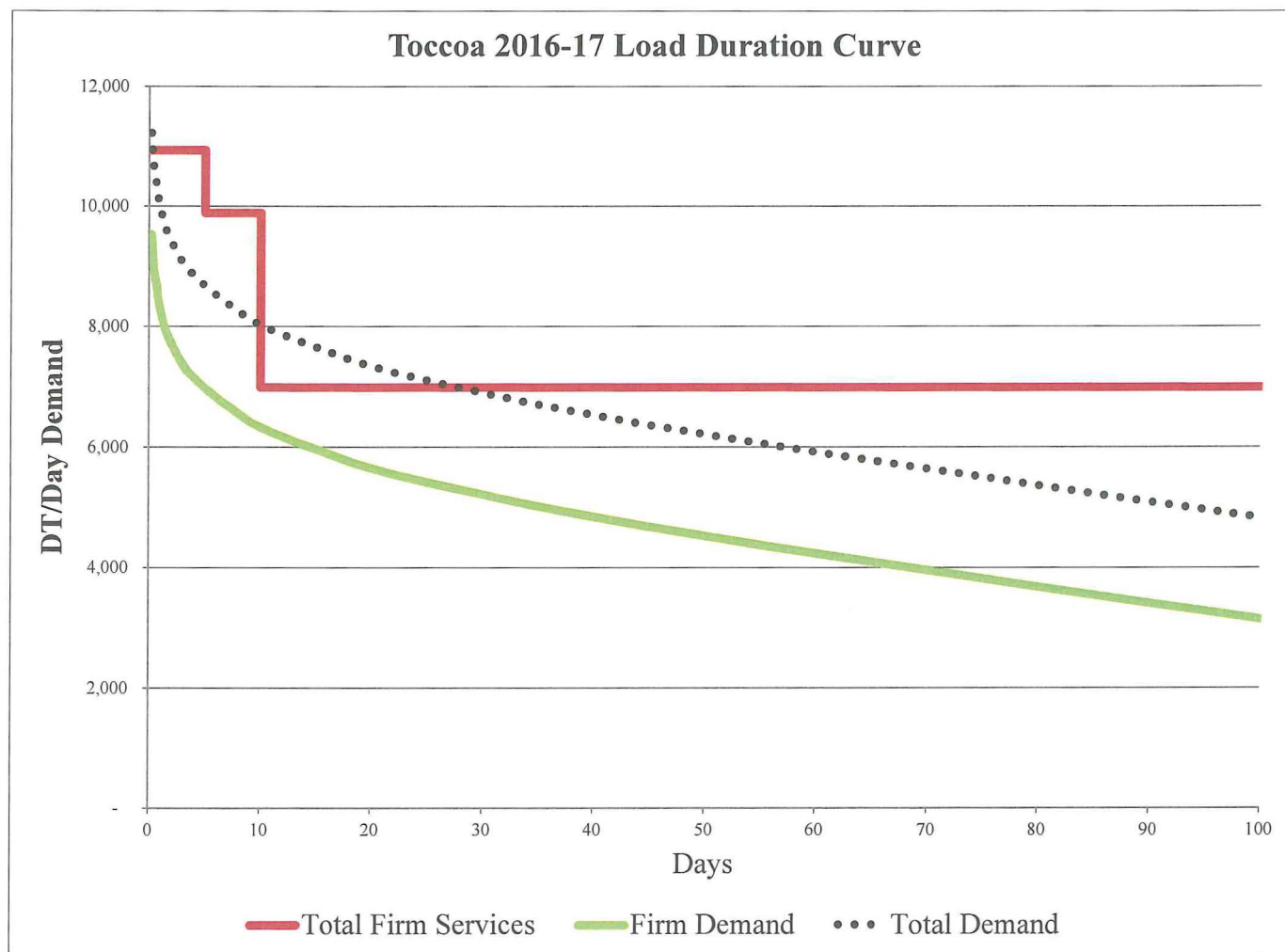
### Degree Day

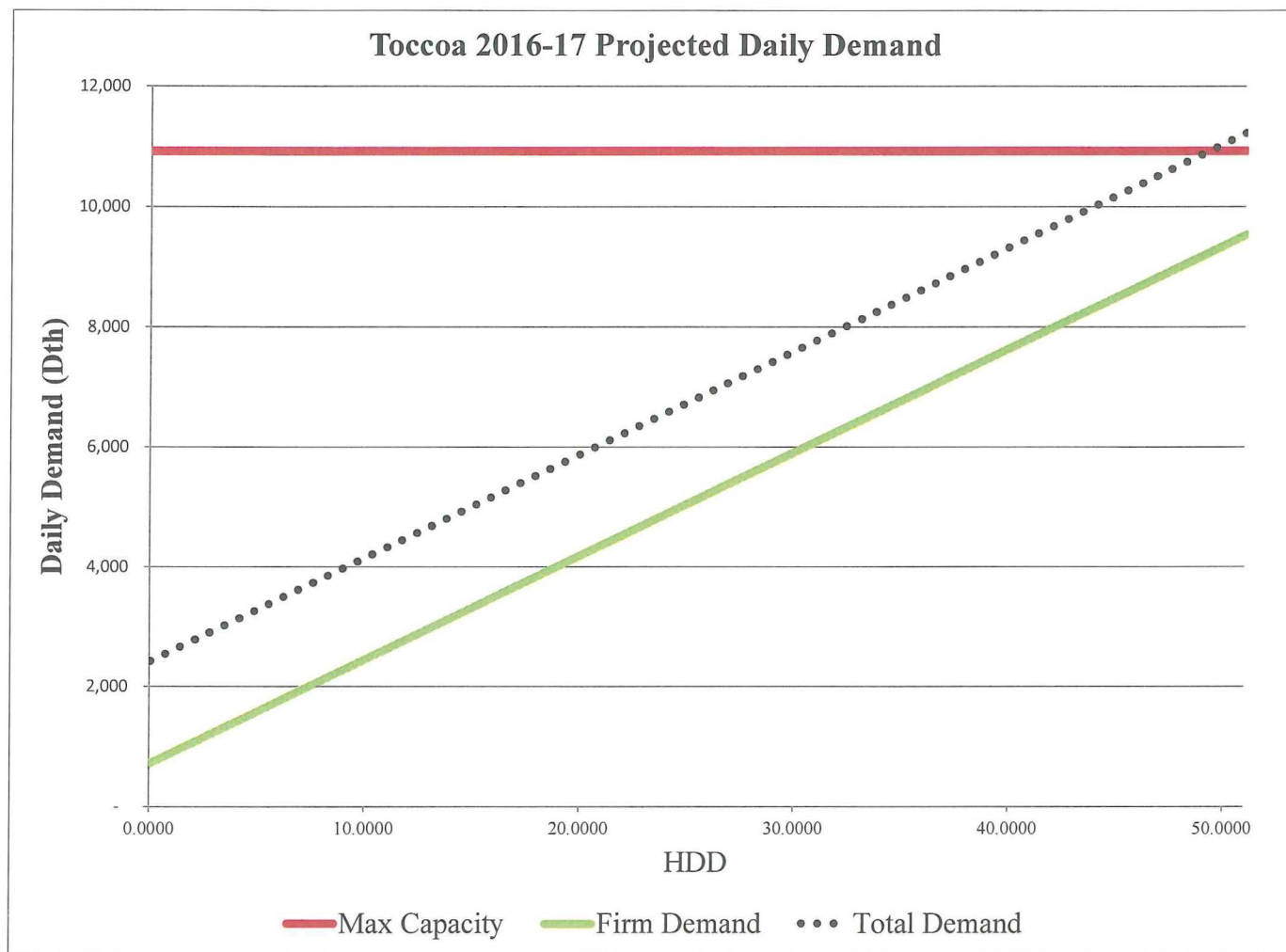
Heating Degree Days (HDD) are defined as the number of degrees the average temperature for a day is below 65 degrees. If the average temperature is 65 degrees or warmer, there are zero heating degree days and no heating is expected for the typical home or business. As the average temperatures get colder, more and more energy is needed to maintain a comfortable interior temperature. As an example, a high temperature of 46 degrees with a low of 24 degrees will result in an average temperature of 35 degrees and 30 HDD.

### Historic Peak Days - Last 5 Years

<u>Rank</u>	<u>Date</u>	<u>Day of Week</u>	<u>HDD</u>	<u>Dth</u>
1	02/18/15	Wed	38	10,941
2	01/08/15	Thu	39	10,353
3	01/24/14	Fri	40	10,168
4	01/07/15	Wed	42	10,161
5	02/19/15	Thu	44	10,131
6	01/29/14	Wed	44	9,842
7	02/09/16	Tue	36	9,824
8	02/10/16	Wed	32	9,698
9	01/22/14	Wed	37	9,588
10	01/30/14	Thu	34	9,573
11	01/06/14	Mon	49	9,542
12	01/07/14	Tue	46	9,486
13	01/23/14	Thu	39	9,432
14	01/18/16	Mon	37	9,381
15	01/08/14	Wed	29	9,335
16	02/15/16	Mon	20	9,008
17	01/03/14	Fri	36	8,941
18	11/18/14	Tue	37	8,829
19	02/20/15	Fri	32	8,811
20	01/09/15	Fri	33	8,731









2016-17 Load Forecast Chart (Dth)							
Toccoa							
						Dec - Feb Total Firm Services:	10,926
Heating Degree				Heating Degree			
Day	Average Temp.	Firm Load	Total Load	Day	Average Temp.	Firm Load	Total Load
0	65	728	2,417	26	39	5,216	6,905
1	64	901	2,590	27	38	5,388	7,077
2	63	1,073	2,762	28	37	5,561	7,250
3	62	1,246	2,935	29	36	5,733	7,422
4	61	1,418	3,107	30	35	5,906	7,595
5	60	1,591	3,280	31	34	6,079	7,768
6	59	1,764	3,453	32	33	6,251	7,940
7	58	1,936	3,625	33	32	6,424	8,113
8	57	2,109	3,798	34	31	6,596	8,285
9	56	2,281	3,970	35	30	6,769	8,458
10	55	2,454	4,143	36	29	6,942	8,631
11	54	2,627	4,316	37	28	7,114	8,803
12	53	2,799	4,488	38	27	7,287	8,976
13	52	2,972	4,661	39	26	7,459	9,148
14	51	3,144	4,833	40	25	7,632	9,321
15	50	3,317	5,006	41	24	7,805	9,494
16	49	3,490	5,179	42	23	7,977	9,666
17	48	3,662	5,351	43	22	8,150	9,839
18	47	3,835	5,524	44	21	8,322	10,011
19	46	4,007	5,696	45	20	8,495	10,184
20	45	4,180	5,869	46	19	8,668	10,357
21	44	4,353	6,042	47	18	8,840	10,529
22	43	4,525	6,214	48	17	9,013	10,702
23	42	4,698	6,387	49	16	9,185	10,874
24	41	4,870	6,559	50	15	9,358	11,047
25	40	5,043	6,732	51	14	9,531	11,220

## MGAG 5 Year Demand and Capacity Analysis - Toccoa

	2012-13	2013-14	2014-15	Prev Year 2015-16	Year 1 2016-17	Year 2 2017-18	Year 3 2018-19	Year 4 2019-20	Year 5 2020-21
Customer Count	6,422	6,494	6,494	6,536	6,536	6,536	6,536	6,536	6,536
Growth Rate				0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Projected Design Day			HDD	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Firm Design Day Demand			51	9,085	9,526	9,526	9,526	9,526	9,526
NGV Demand				3	5	6	7	8	9
Interruptible Demand				1,741	1,689	1,689	1,689	1,689	1,689
Total Projected Design Day Demand				10,829	11,220	11,221	11,222	11,223	11,224
Firm Services									
FT				6,993	6,993	6,993	6,993	6,993	6,993
GSS				-	-	-	-	-	-
Blended Baseload Delivered (3/31/16)				-	-	-	-	-	-
Blended Peaking (3/31/16)				-	-	-	-	-	-
Pine Needle				2,898	2,898	2,898	2,898	2,898	2,898
LNG/LGA				1,035	1,035	1,035	1,035	1,035	1,035
Propane Plant				-	-	-	-	-	-
Seasonal Capacity / (Shared with Others)				-	-	-	-	-	-
Total Firm Services				10,926	10,926	10,926	10,926	10,926	10,926
Firm Long/(Short) Dth				1,838	1,395	1,394	1,393	1,392	1,391
				17%	13%	13%	13%	13%	13%

Long - There are firm services sufficient to meet the projected firm requirements on the design day

Short - The projected firm requirements on the design day are greater than the firm services available and more capacity is recommended if available

Toccoa

11/1/2016

## Transco Monthly Contract Quantities (Dth)

<u>Contract Type</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>
PSFT *	-	-	-	-	-	-	-	-	-	-	-	-
FTG * (One Part FT)	-	-	-	-	-	-	-	-	-	-	-	-
CFT *	1,381	1,898	2,300	2,300	2,300	1,898	1,381	346	346	294	290	346
IFT	-	-	-	-	-	-	-	-	-	-	-	-
SE94	-	-	-	-	-	-	-	-	-	-	-	-
SE95/96	-	-	-	-	-	-	-	-	-	-	-	-
SFT *	-	-	-	-	-	-	-	-	-	-	-	-
Sunbelt	518	518	518	518	518	518	518	518	518	518	518	518
BG&E	-	-	-	-	-	-	-	-	-	-	-	-
Cherokee	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070	2,070
SouthCoast	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105
Sundance	-	-	-	-	-	-	-	-	-	-	-	-
Momentum	-	-	-	-	-	-	-	-	-	-	-	-
Temp Release of BG&E	-	-	-	-	-	-	-	-	-	-	-	-
Total FT	6,074	6,591	6,993	6,993	6,993	6,591	6,074	5,039	5,039	4,987	4,983	5,039
GSS - 50d	-	-	-	-	-	-	-	-	-	-	-	-
Blended Baseload Delivered	-	-	-	-	-	-	-	-	-	-	-	-
Blended Peaking	-	-	-	-	-	-	-	-	-	-	-	-
Pine Needle - 10d	-	2,898	2,898	2,898	2,898	2,898	-	-	-	-	-	-
LNG - 5d	-	1,035	1,035	1,035	1,035	1,035	-	-	-	-	-	-
Total Storage/Peaking	-	3,933	3,933	3,933	3,933	3,933	-	-	-	-	-	-
Seasonal Capacity	-	-	-	-	-	-	-	-	-	-	-	-
Total Capacity (Dth/Day)	6,074	10,524	10,926	10,926	10,926	10,524	6,074	5,039	5,039	4,987	4,983	5,039

\* Capacity entitlement varies by month