

Reservoir Operations Study: in support of City Surface Water Resources

Background

Since 2000, the City of Prescott (Prescott or City) has utilized surface water resources from Granite Creek and Willow Creek, and impounded in Watson Lake and Willow Lake Reservoirs, to meet potable water demands within the City's service area. The Arizona Department of Water Resources (ADWR) acknowledged this water resource as being physically, legally, and continuously available in two Decision and Orders (D&Os) designating Prescott as having an assured water supply (AWS No. 2005-004 dated September 16, 2005, and AWS No. 2008-006 dated December 30, 2009.) In both D&Os the approved volume was 1,391 acre-feet per year.

The data that Prescott relied on to support its previous applications for assured water supply designations was limited. The City had only recently obtained the water rights sever and transfer approval and had only a few years of operational experience in converting the use of the surface water supply from agricultural use to municipal, industrial, and recreational uses. Now that more years of flow data and operational experience exist, the City has re-analyzed the volume of water available for use as an assured water supply. Based on this new evaluation, Prescott is seeking an increase in its surface water supply designation to 1,550 acre-feet per year for the water rights acquired from the Chino Valley Irrigation District. The study presented in support of this volume shows that a median value volume of 1,803.2 acre-feet per year could be supported consistent with ADWR rules and standards, but the City had determined that, considering the need to back up the surface water supply in times of drought and other shortages, a lower volume will result in a more manageable quantity.

Evaluation Standards

The City's re-valuation study was prepared to be consistent with Rule 12-15-716.E which deals with the physical availability of surface water other than CAP water or Colorado River water. This rule establishes the following standards for an application:

“Subject to subsection (L) of this Section, if the proposed source of water is surface water, other than CAP water, or Colorado River water, the Director shall determine the annual volume of water that is physically available for the proposed use, taking into consideration the priority date of the right or claim, by calculating 120% of the firm yield of the proposed source at the point of diversion as limited by the capacity of the diversion works; except that if the applicant demonstrates that an alternative source of water will be physically available during times of shortage in the proposed surface water supply, the Director shall determine the annual volume of water available by calculating 100% of the median flow of the

proposed source at the point of diversion as limited by the capacity of the diversion works. The Director shall determine the firm yield or median flow as follows:

1. By calculating the firm yield or median flow at the point of diversion based on at least 20 calendar years of flow records from the point of diversion, unless 20 calendar years of records are unavailable, and the Director determines that a shorter period of record provides information necessary to determine the firm yield or median flow; or
2. By calculating the firm yield or median flow at the point of diversion using a hydrologic model that projects the firm yield or median flow, taking into account at least 20 calendar years of historic river flows, changes in reservoir storage facilities, and projected changes in water demand. The yield available to any applicant may be composed of rights to stored water, direct diversion, or normal flow rights. If the permit for the water right was issued less than five years before the date of application, the Director shall require the applicant to submit evidence, as applicable, in accordance with this subsection.”

Using the Rule evaluation standard as its guide, the City’s study utilizes 26 years of historic flow records from USGS stream gage #09503000 on Granite Creek as the basis for the physical availability of water supply. The study determines the median yield available from that water resource as limited by the City’s water rights, potential future diversions of the Yavapai Prescott Indian Tribe, and bypass of water to other Granite Creek water rights. The study also recognizes limits to diversions and operational constraints to reservoirs required by the Stipulation and Order for Judgment No. 22088 in the case of *Salt River Valley Water Users Association v. Chino Valley Irrigation District*. The surface water runoff from Granite Creek is highly variable from month to month and from year to year. Without reservoir storage, use of this resource as a supply source for municipal and industrial supply would likely be impractical. However, Prescott has reservoir storage available through the use of Watson and Willow Creek Reservoirs. This allows the capture and storage of high flows that may then be regulated for release on a pattern which will allow use. Finally, the surface water yield and corresponding median yield is reduced by 10% to account for distribution system conveyance losses and evaporation from the recharge basins used to accommodate annual storage and recovery.

Water Rights and Other Operational Constraints

The Reservoir Operation Simulation Model developed for estimating the median yield from Granite Creek incorporates a number of limitations and operational constraints. These include:

- The City's water rights to Granite Creek and Willow Creek are limited to a maximum diversion of 3,861.26 acre-feet per year as measured at a point where the water enters the City of Prescott Underground Storage and Recovery Facility or other Facility. An additional amount of water up to 965 acre-feet per year may be diverted to account for potential transportation losses between Granite Creek Dam and Willow Creek Dam and the Underground Storage and Recovery Facility. Based on experience of operating the surface water system, for the purpose of the Reservoir Operation Simulation Model the loss factor was limited to a maximum volume equivalent to 10% of the annual yield volume rather than the 25% allowed in the ADWR sever and transfer decision and order.
- The water right capacity limit for Watson Reservoir is 4,600 acre-feet and for Willow Creek Reservoir is 5,980 acre-feet for a total of 10,580 acre-feet with the right to continuously fill and refill these reservoirs. However, the City has adopted an operational procedure which limits the amount of storage utilized for development of water supplies. These limitations are described as "Operational Pools" and are currently established as 7.5 feet below the spillway crest for Watson Reservoir and 7.0 feet below the spillway crest for Willow Reservoir. These levels equate to an operational constraint of limiting active storage in Watson Reservoir to 1,260.9 acre-feet and Willow Creek Reservoir to and 1,820 acre-feet for a combined storage capacity of 3,080.9 acre-feet.
- Diversions from the reservoirs to the recharge facilities may only occur during the period of April 1 through November 30 of each year. Diversions may also occur at other times if water from the Verde River is spilling at Granite Creek Diversion Dam, but this exception is not included in the Reservoir Operation Simulation Model. The City may divert water from Watson Reservoir to Willow Creek Reservoir using the Cross-Cut pipeline but use of this infrastructure is limited to a maximum flow of 65 cfs and is only usable when the water surface elevation of Watson Reservoir exceeds 5159.4 feet.
- The City of Prescott owns and maintains channels, pipes, manholes and other appurtenances to convey water to the City's Recharge Facility. The capacity of the conveyance infrastructure is approximately 30 acre-feet per day. For the purposes of the Reservoir Operation Simulation Model the daily capacity was limited to 25 acre-feet per day to provide a factor of safety. The capabilities of the Recharge Facility exceed that of the conveyance infrastructure.

- Even though the Yavapai Prescott Indian Tribe currently has no facilities to divert or store water from Granite Creek, the Tribe's water rights settlement agreement provides for such an opportunity in the future. The volume of their water rights has two components. The Tribe is entitled to 50% of the first 1,100 acre-feet measured at the State Highway 89 Bridge up to 550 acre-feet per year. Once that amount is satisfied, the Tribe is entitled to an additional 10% of the volume above 1100 acre-feet up to a total of 450 acre-feet. (Total combined right of 1000 acre-feet per year). The Reservoir Operation Simulation Model provides for a deduction from the available historic supply in recognition of the Tribe's water rights, even though those rights have not been historically exercised.
- The City's reservoir operation plan recognizes the right associated with the Granite Dells Ranch property of 375 acre-feet per year. This water has been historically delivered when requested and it is assumed in the model that the right would be honored in the future. In addition, ADWR Sever and Transfer Order requires the City to recognize the right for 23.3 acre-feet per year retained by the Chino Valley Irrigation District (CVID). While this right has not been exercised every year, the Reservoir Operation Simulation Model assumes that right would be exercised, and the volume of the right is subtracted from the City's available supply.

Reservoir Operation Simulation Model

The data and calculations contained within the Reservoir Operation Simulation Model are shown in **Attachment 1** below. The model was constructed using Microsoft Excel software. The spreadsheet model is comprised of 19 columns of data and calculations which are described below. Each column is referenced by a designated letter and column header.

Column A – Date

This column contains the date by month from January 1995 through December 2020. These dates were selected because they represent consecutive full calendar year dates where measurements were taken and recorded at the USGS gage number 09503000. Data for 1994 was not used because it was only available for a portion of the year. This period of consecutive calendar year records exceeds the 20-year minimum required by Rule 12-15-716. E.

Column B – Granite Creek Gaged Inflow

The data used in this column was developed using information on the USGS website for gage number 09503000. The downloaded data set is the mean daily flow measured in cfs for the period January 1, 1995, through December 31, 2020. The daily flow was converted to daily acre-feet of volume by multiplying by the conversion factor of 1.983. The daily volumes were summed by month to determine the monthly volume used in this column. (Note: While Prescott holds water rights to Willow Creek, the Willow Creek inflow is not measured by an established gage. Rather than attempting to estimate the Willow Creek flow, this Reservoir Operation Simulation Model ignores this water source for the purpose of establishing an assured water supply volume.)

Column C – Cumulative Inflow

This column represents a running total of the inflow over the course of the year.

Column D - Initial YPIT 50% to 550

This column calculates the water reserved for the Yavapai Prescott Indian Tribe's initial water right of 50% of the Granite Creek inflow up to 550 acre-feet per year. It may take several months for the 550 acre-feet volume to be achieved.

Column E – Initial Prescott 50% up to 550 This column calculates the other portion of the first 1,100 acre-feet of inflow that is not reserved for the YPIT.

Column F – Remaining Granite Creek Inflow

This column calculates the remaining monthly inflow after subtracting the volumes reserved for YPIT and Prescott for the first 1,100 acre-feet. The result is Column B minus Column D minus Column E.

Column G – 10% to 450

This column calculates the additional water supply reserved for the YPIT. It is calculated by multiplying Column F by 10% but is limited when the sum of the supply available for the calendar year is equal to 450 acre-feet. In several years the Granite Creek inflow is insufficient to produce the entire 450 acre-feet.

Column H – Remaining Inflow after YPIT Potential Diversions

This column calculates the overall water supply available to Prescott after the two YPIT water right water reservations. The result is derived by calculating Column E plus Column F minus Column G.

Column I – Precipitation on Reservoir

This column represents a volume of water that would normally described as “inflow below the gage.” In this study the area below the gage was felt to be small so the inflow volume was limited to precipitation which falls directly on the water surface of the reservoirs. The precipitation values were derived using data downloaded from the NOAA National Centers for Environmental Information website for weather station USW00023184 at Ernest Love Field. Daily precipitation quantities were measured in inches. They were accumulated into monthly values measured in feet. The monthly value was multiplied by the surface area of the reservoirs for the prior month as depicted in Column R.

Column J – Available Inflow

This column represents the volume of water for the month that is available for either storage in the reservoirs or for diversion to the Recharge Facility. It is calculated as the sum of Column H and Column I.

Column K – Evaporation

Evaporation is estimated for each month and is dependent upon the estimated surface area of Watson and Willow Creek Reservoirs at the end of the previous month. Reservoir evaporation is often estimated by correlating with a nearby evaporation pan. However, there are no pan evaporation stations available in the Prescott area. Instead, Column K assumes that annual reservoir surface evaporation will be equal to 5.5 acre-feet per surface acre of the lakes. The 5.5 acre-feet per acre figure is the value adopted by ADWR in the Prescott AMA Fourth

Management Plan (Prescott AMA Fourth Management Plan page 6-9) for water surface acres related to turf facilities. While the surface areas of Watson and Willow Creek Reservoirs are larger than those located on golf courses, the regional evaporation rates from open water surfaces should be similar. The annual evaporation is distributed by month using data for reference evapotranspiration estimates from Technical Bulletin 266, Agricultural Experiment Station, University of Arizona, 1990. The evaporation estimate for each month is multiplied by the surface area of Watson/Willow Lakes for the end of the previous month as calculated in Column R.

Column L – Granite Dells Ranch & CVID Water Rights

This column represents required releases of water for two other entities who hold water rights on Granite Creek. The assumed period of demand is from May through September which corresponds to the irrigation season. The water for the CVID water right is transferred to the Recharge Facility and is recovered using recovery wells owned by CVID. Water for Granite Dells Ranch is released from the reservoir and is then diverted downstream for irrigation use.

Column M – To Recharge

This column represents the volume of water available to Prescott for release from the reservoirs to transport to the Recharge Facility. Water is only released during the months of April through November. The maximum diversion rate is assumed to be 25 acre-feet per day. The maximum yearly diversion cannot exceed 4,247.4 acre-feet per year which provides an additional 10% water release to cover transmission losses associated with the maximum water right allowance of 3,861.26 acre-feet per year. The determination of the availability of water for release to recharge is dependent upon the existence of water within the reservoir operational pools at the end of the prior month and the volume of monthly available inflow (Column J) after subtracting evaporation (Column K) and releases required for other right holders (Column L). Releases are discontinued when monthly inflow less Column K and Column L values cause the end of month reservoir storage levels to drop below the minimum operational pool elevations. The determination of the values calculated in Column M is the primary purpose of the objective Reservoir Operation Simulation Model and represents the water supply that, after consideration for transmission and recharge basin losses, will be available for an assured water supply demonstration.

Column N – Spill

This column calculates the volume of water that cannot be used for recharge or other water rights because it will exceed the storage capacity of Watson and Willow

Creek Reservoirs. This water is assumed to be passed over the reservoir spillways into the channels of Granite Creek and Willow Creek.

Column O – Annual Yield

Column O is the yearly accumulated volume of water and is calculated as the sum of the monthly values in Column M. The values determined in Column O are used to determine the median value of the surface water supply as required by Rule 12-15-716.E.

Column P – End of Month Operational Storage

This column tracks the volume of water in the operational pools of Watson and Willow Creek Reservoirs after accounting for monthly inflows and outflows. The maximum content allowed in this column is 3,080.8 acre-feet. If the remaining inflow exceeds this amount, then a spill would have occurred. If the calculated volume is a negative number, then the reservoirs would have been drawn down below the operational pool level and must be brought back to a positive value before releases for recharge can resume.

Column Q – Watson/Willow Contents

This column represents the volume of water in Watson and Willow Creek Reservoirs. For Willow Creek Reservoir the contents represent only the volume of the operational pool, but for determining the surface area of the reservoir the entire contents are used.

Column R – Watson/Willow Surface Area

This value is determined using the relationship between the reservoir capacity and the reservoir area. This relationship commonly called an area/capacity table was determined by Prescott by surveying the reservoir basins and correlating area to elevation. The Reservoir Operation Simulation Model accesses this data using a lookup table. The surface area calculated in this column is used for calculating the supply available from precipitation (Column I) and the water lost due to evaporation (Column K).

Column S – Willow in Use Y or N?

As described previously the Reservoir Operation Simulation Model does not account for natural water inflows from Willow Creek. Therefore, the only times the model assumes water is stored in Willow Creek Reservoir is when the cross-cut pipeline can be used to transport surplus Granite Creek water into Willow Creek. Column S is not used in any calculation but was included for informational purposes to track how often Willow Creek Reservoir is needed.

Summary of Results

Figure 1 and Table 1 show the results of the Simulated Reservoir Operation Model. The volume of water associated with the assured water supply designation is the median yield of surface water as measured at the Recharge Facility. Table 1 lists the yearly yield as calculated in Column O of the model. Each year's yield value is then reduced by 10% to account for potential transmission losses and evaporation from the recharge basins. The resulting median yield for the 26 years is 1,803.2 acre-feet per year and the mean yield is 1,623.3 acre-feet. Both values are higher than the 1,550 acre-feet per year that the City proposes to include as an assured water supply in this designation application. Figure 1 is a graphic representation of the yearly yield results and offers a visual expression that the yield values can vary greatly year to year. In five years out of the twenty six years studied there would be no surface water available.

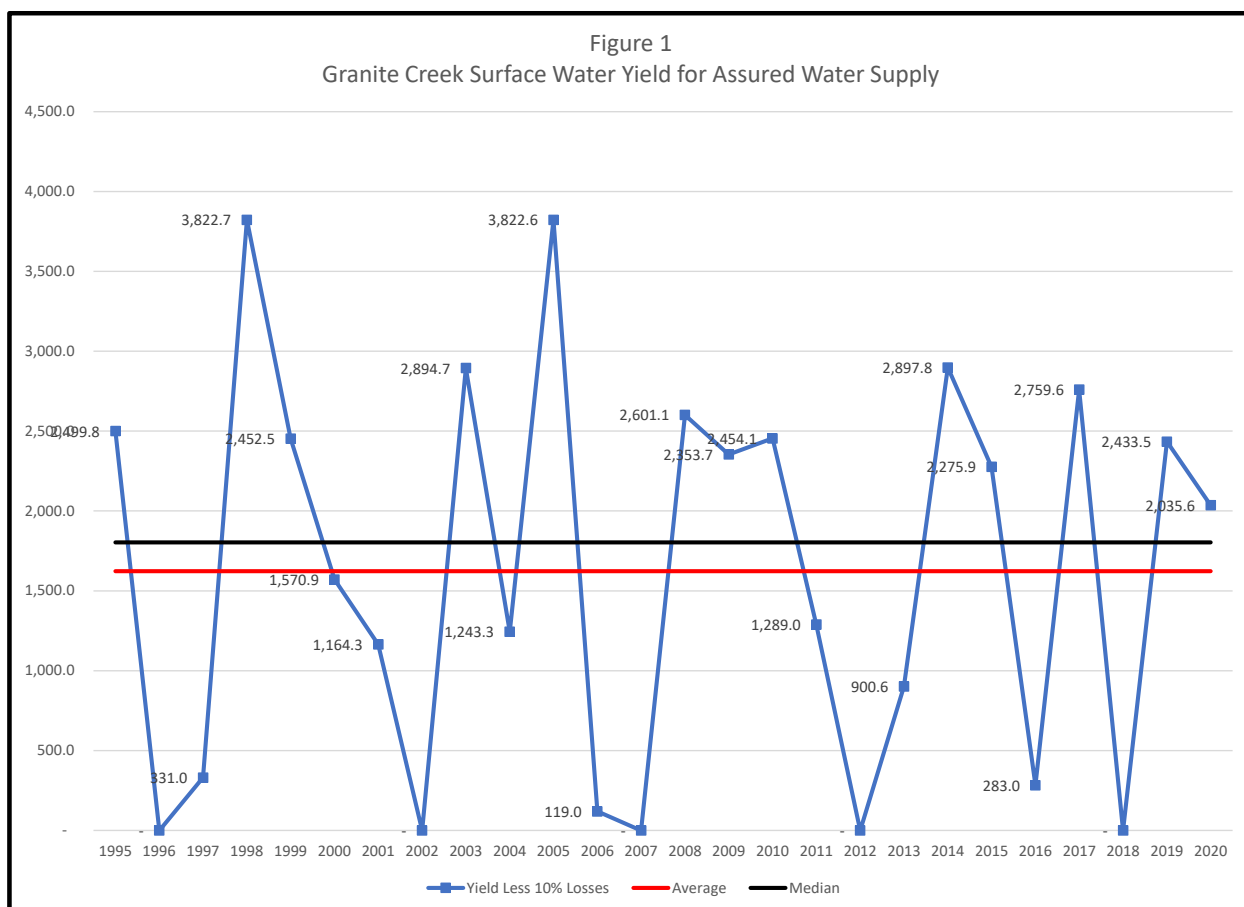


Table 1		
Year	Yield (AF)	Yield Less 10% Losses
1995	2,777.5	2,499.8
1996	-	-
1997	367.7	331.0
1998	4,247.4	3,822.7
1999	2,725.0	2,452.5
2000	1,745.4	1,570.9
2001	1,293.7	1,164.3
2002	-	-
2003	3,216.3	2,894.7
2004	1,381.4	1,243.3
2005	4,247.4	3,822.6
2006	132.2	119.0
2007	-	-
2008	2,890.1	2,601.1
2009	2,615.2	2,353.7
2010	2,726.8	2,454.1
2011	1,432.2	1,289.0
2012	-	-
2013	1,000.7	900.6
2014	3,219.7	2,897.8
2015	2,528.8	2,275.9
2016	314.5	283.0
2017	3,066.3	2,759.6
2018	-	-
2019	2,703.8	2,433.5
2020	2,261.8	2,035.6
Mean	1,803.6	1,623.3
Median	2,003.6	1,803.2

Backup Supply or Drought Plan

As cited above, Rule 12-15-716.E only allows the use of the median yield value if Prescott is able to “demonstrate that an alternative source of water will be physically available during times of shortage in the proposed surface water supply.”

Due to the highly variable nature of the runoff of Granite Creek, Prescott determined that it could more easily manage the backup supply requirement by reducing the volume of yield for assured water supply purposes by 14% to 1,550 acre-feet.

Prescott uses its Water Resources Management Model to monitor its water demands and supplies and to forecast how future increase in demands can be met. As described in this application, Prescott expects that its water demand will grow to 12,125 acre-feet per

year over a 20-year time horizon. That volume is comprised of 9,931 acre-feet for potable uses and 2,193 acre-feet for non-potable uses. Non-potable demand is satisfied by delivering treated effluent to customers through a distribution system which is separate from the potable water distribution system. Surface water from Granite Creek is only used to meet the demands for the potable water customers. As demonstrated in this application, Prescott believes it will have several water supply sources available to serve potable water customers including surface water, effluent which has been treated and recharged to be later pumped from recovery wells, and groundwater. For the purpose of determining a backup supply, groundwater available from the Big Chino sub-basin is not included as a potential backup, although when the Project becomes available it certainly could be used for that purpose.

Prescott uses underground storage and recovery as its mechanism to make use of both its surface water and potable use effluent supplies. Water is pumped from its well system and the determination of how to classify that water is made when filing its annual report. In general, due to the legal limitation that surface water must be used in the year it is developed, the City will account for use of this supply first. Depending upon the volume of surface water, the City then makes use of either recharged effluent or groundwater to meet the remaining portion of potable demand. In years of above average flow, less pumped water is designated as either effluent or groundwater. Conversely, in years of below average flow, more water must be designated from the other sources. In this Assured Water Supply application Prescott has demonstrated that in addition to the 1,550 acre-feet of surface water described in this section, it will have 9,947 acre-feet of groundwater, 3,066 acre-feet of effluent, and 255.9 acre-feet of existing long term storage credits available each year to meet the potable portion of its demands in the 20th year after the application and for the remaining portion of the 100-year assured water supply period. These three sources total 13,268.9 acre-feet per year which is more than adequate to meet the estimated potable demand volume of 9,931 acre-feet. All of the sources available for backup supply are firm and are not subject to reduction in times of drought or shortage.

In summary, Prescott intends to always utilize its rights to surface water when that water is available. By utilizing surface water either the volume of pumped water designated as groundwater will be reduced or recharged effluent will not be recovered in the same year it is generated and will instead be designated as long-term storage credits. In years when less surface water is available more pumped water would be designated as groundwater or effluent recovered in the same year it was developed. The option also exists to designate some of the pumped water as recovered long term storage credits. Among the several options available, Prescott has more than enough firm supplies to overcome shortages to its surface water supplies.

Granite Dells Ranch Water Rights

As described elsewhere in this Assured Water Supply application, the City of Prescott has entered into an agreement with Arizona Eco Development LLC to obtain the surface water rights associated with Statement of Claim No. 36-65554. These water rights have been described in the Reservoir Operation Simulation Model as Granite Dells Ranch rights and are quantified to be 375 acre-feet per year. Since the Granite Dells Ranch rights have a priority date senior to the water rights purchased by Prescott from the CVID, releases to meet this right have been made from Watson Reservoir upon request. These releases are made even if the result of such a release would have reservoir levels drop below the operational pool levels. As a result, the Granite Dells Ranch water has always been available for use at its full water right volume and should be considered firm yield rather than rely on the median yield analysis. The face value of the right is 375 acre-feet per year, but that volume will become more definitive through the severance and transfer process. The transferred water supply will likely be measured at the Recharge Facility and would be subject to transmission losses.

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial VPM 50% to 500 [AF]	Initial Prescott 50% to 500 [AF]	Remaining Granite Creek Inflow [AF]	10% to 430 [AF]	Remaining Inflow After VPM Potential Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Delta Pach & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Wetson/Willow Contents [AF]	Wetson/Willow Surface Area [Ac]	Willow in Use Y or N
Starting															0	13.12.4		N
Jan-95	131.2	131.2	590.0	590.0	7.11.2	7.1.1	1190.1	0.0	1190.1	12.9	0	0.0	0.0		117.1.1	298.9.5	194.2	N
Feb-95	437.3	608.4	0.0	0.0	48.75.1	372.9	4494.2	34.0	4528.2	29.3	0	0.0	2.36.9.2		3080.2	429.9.2	337.4	Y
Mar-95	4710.0	11394.3	0.0	0.0	47.10.0	0.0	47.10.0	51.5	4761.5	101.7	0	0.0	46.98.7		3080.2	429.9.2	337.4	Y
Apr-95	327.6	11721.9	0.0	0.0	327.6	0.0	327.6	10.7	3328.3	166.9	0	7.90.0	0.0		2902.3	432.0.7	302.4	Y
May-95	153.7	11875.6	0.0	0.0	153.7	0.0	153.7	17.1	1702.8	167.2	99.3	77.9.0	0.0		1621.0	3449.4	240.2	Y
Jun-95	25.0	11900.6	0.0	0.0	25.0	0.0	25.0	0.2	25.2	226.5	102	77.9.0	0.0		552.7	237.1.1	166.1	N
Jul-95	21.5	11922.1	0.0	0.0	21.5	0.0	21.5	9.6	31.1	126.2	99	348.5	0.0		0.0	12.18.4	142.2	N
Aug-95	106.5	12028.6	0.0	0.0	106.5	0.0	106.5	11.3	117.8	96.5	87	0.0	0.0		-65.7	17.52.7	139.9	N
Sep-95	270.6	12299.2	0.0	0.0	270.6	0.0	270.6	22.9	293.4	87.7	11	129.0	0.0		0.0	12.18.4	142.2	N
Oct-95	13.0	12312.1	0.0	0.0	13.0	0.0	13.0	0.0	13.0	36.2	0	0.0	0.0		-43.9	1774.5	140.2	N
Nov-95	19.1	12331.2	0.0	0.0	19.1	0.0	19.1	1.5	20.6	30.6	0	0.0	0.0		-35.2	1764.6	140.4	N
Dec-95	21.0	12352.2	0.0	0.0	21.0	0.0	21.0	1.6	22.7	12.6	0	0.0	0.0	2777.5	-49.2	1762.6	140.6	N
Jan-96	20.3	20.3	10.1	10.1	0.0	0.0	10.1	1.5	11.7	12.9	0	0.0	0.0		-37.1	176.1.3	140.2	N
Feb-96	53.7	74.0	26.9	26.9	0.0	0.0	26.9	13.4	40.3	28.7	0	0.0	0.0		-45.5	177.2.9	140.7	N
Mar-96	67.1	141.1	33.5	33.5	0.0	0.0	33.5	9.3	32.2	42.4	0	0.0	0.0		-49.1	178.9.3	140.6	N
Apr-96	24.6	165.7	12.3	12.3	0.0	0.0	12.3	0.4	12.6	69.5	0	0.0	0.0		-106.0	1712.4	133.1	N
May-96	4.8	170.4	2.4	2.4	0.0	0.0	2.4	0.0	2.4	76.6	99.3	129.9	0.0		-279.6	178.2.2	129.9	N
Jun-96	1.1	171.5	0.5	0.5	0.0	0.0	0.5	0.4	1.0	122.2	102	0.0	0.0		-302.2	131.5.6	119.0	N
Jul-96	487.7	649.2	232.2	232.2	0.0	0.0	232.2	31.2	270.1	97.6	99	0.0	0.0		-429.3	132.9.1	127.7	N
Aug-96	29.2	677.4	14.1	14.1	0.0	0.0	14.1	4.0	12.1	32.9	27	0.0	0.0		-361.1	123.7.3	114.9	N
Sep-96	395.3	1073.2	197.9	197.9	0.0	0.0	197.9	14.2	212.1	72.1	11	0.0	0.0		-452.1	136.6.3	121.6	N
Oct-96	7.0	1080.2	3.5	3.5	0.0	0.0	3.5	3.2	6.8	48.4	0	0.0	0.0		-493.7	132.4.6	119.4	N
Nov-96	20.9	1101.1	9.9	9.9	1.1	0.1	10.9	7.2	18.7	25.9	0	0.0	0.0		-501.0	131.7.4	119.1	N
Dec-96	33.1	1134.2	0.0	0.0	33.1	3.3	29.2	2.2	32.6	15.2	0	0.0	0.0	0.0	-484.2	133.4.2	119.9	N
Jan-97	584.9	334.9	267.5	267.5	0.0	0.0	267.5	25.2	292.7	15.9	0	0.0	0.0		-207.5	1610.9	133.4	N
Feb-97	191.4	726.4	95.7	95.7	0.0	0.0	95.7	13.6	109.3	27.4	0	0.0	0.0		-125.6	169.2.2	137.2	N
Mar-97	451.0	1177.4	126.2	126.2	77.4	7.7	256.5	0.0	256.5	41.4	0	0.0	0.0		39.5	1907.9	146.6	N
Apr-97	261.7	1439.1	0.0	0.0	261.7	26.2	235.5	11.6	247.2	72.5	0	264.2	0.0		0.0	12.18.4	142.2	N
May-97	16.0	1455.1	0.0	0.0	16.0	1.6	14.4	25.5	39.9	79.2	99.3	0.0	0.0		-132.7	167.9.7	136.6	N
Jun-97	3.0	1458.1	0.0	0.0	3.0	0.2	2.7	1.0	3.7	128.5	102	0.0	0.0		-165.5	1472.9	125.2	N
Jul-97	0.7	1458.8	0.0	0.0	0.7	0.1	0.6	4.1	4.7	108.2	99	0.0	0.0		-762.9	1255.5	115.9	N
Aug-97	76.2	1535.0	0.0	0.0	76.2	7.7	69.1	45.9	115.0	78.3	87	0.0	0.0		-613.2	120.5.2	113.2	N
Sep-97	243.3	2378.9	0.0	0.0	243.3	24.3	239.0	34.7	293.7	71.0	11	98.5	0.0		0.0	12.18.4	142.2	N
Oct-97	64.2	2443.1	0.0	0.0	64.2	6.4	57.8	4.2	61.9	36.2	0	5.1	0.0		0.0	12.18.4	142.2	N
Nov-97	28.0	2471.1	0.0	0.0	28.0	2.8	25.2	4.5	29.7	31.0	0	0.0	0.0		-1.3	1217.1	142.7	N
Dec-97	256.2	2727.9	0.0	0.0	256.2	25.7	251.1	28.7	299.2	12.9	0	0.0	0.0	367.7	239.6	2058.0	152.9	N
Jan-98	347.5	347.5	423.7	423.7	0.0	0.0	423.7	10.2	433.9	20.3	0	0.0	0.0		655.2	247.1.6	170.2	N
Feb-98	1316.1	2363.5	126.3	126.3	1263.5	126.4	1263.4	26.5	1290.0	34.9	0	0.0	0.0		1908.3	372.6.7	262.2	Y
Mar-98	2463.4	4816.9	0.0	0.0	2458.4	245.2	2208.0	45.0	2253.1	79.1	0	0.0	100.1.5		3080.2	429.9.2	337.4	Y
Apr-98	2097.6	6914.5	0.0	0.0	2097.6	78.3	2019.3	27.2	2047.1	166.9	0	7.90.0	113.0.3		3080.2	429.9.2	337.4	Y
May-98	383.1	7302.6	0.0	0.0	382.1	0.0	382.1	17.2	409.3	127.2	99.3	77.9.0	0.0		2424.6	4243.0	297.4	Y
Jun-98	49.3	7351.9	0.0	0.0	49.3	0.0	49.3	0.0	49.3	279.2	102	77.9.0	0.0		1317.1	313.5.5	213.4	Y
Jul-98	483.1	7735.0	0.0	0.0	408.1	0.0	408.1	69.2	477.3	175.0	99	77.9.0	0.0		745.4	256.3.2	173.9	N
Aug-98	540.5	8275.5	0.0	0.0	540.5	0.0	540.5	33.2	573.7	117.5	87	77.9.0	0.0		340.2	2158.5	157.0	N
Sep-98	263.9	8539.4	0.0	0.0	263.9	16.4	263.9	16.4	280.3	98.5	11	397.4	0.0		113.5	193.1.9	147.6	N
Oct-98	67.4	8606.8	0.0	0.0	67.4	0.0	67.4	7.0	74.4	36.7	0	0.0	0.0		129.2	1947.5	148.2	N
Nov-98	118.2	8725.0	0.0	0.0	118.2	0.0	118.2	9.6	127.8	32.2	0	0.0	0.0		224.2	2043.2	152.3	N
Dec-98	48.6	8773.6	0.0	0.0	48.6	0.0	48.6	0.9	49.5	20.2	0	0.0	0.0	4247.4	234.0	2072.4	152.5	N

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial YPT 50% to 500 [AF]	Initial Prescott 50% to 550 [AF]	Remaining Granite Creek Inflow [AF]	10% to 450 [AF]	Remaining Inflow After YPT Potential Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Creek Reach & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Watson/Willow Contents [AF]	Watson/Willow Surface Area [Ac]	Willow in Use Y or N
Jan-99	55.1	55.1	27.6	27.6	0.0	0.0	27.6	4.3	31.9	20.4	0	0.0	0.0		265.6	208.4.0	134.0	N
Feb-99	57.5	112.6	28.7	28.7	0.0	0.0	28.7	2.7	31.4	31.6	0	0.0	0.0		265.5	208.3.8	134.0	N
Mar-99	63.1	175.7	31.5	31.5	0.0	0.0	31.5	7.8	39.4	46.4	0	0.0	0.0		258.4	209.6.8	135.6	N
Apr-99	122.2	297.9	61.1	61.1	0.0	0.0	61.1	10.6	71.7	76.0	0	254.2	0.0		0.0	182.8.4	142.8	N
May-99	31.2	329.7	15.9	15.9	0.0	0.0	15.9	0.2	16.1	79.2	99.3	0.0	0.0		-162.4	165.6.0	135.5	N
Jun-99	94.2	424.5	47.4	47.4	0.0	0.0	47.4	4.4	51.8	127.5	102	0.0	0.0		-340.1	147.8.3	127.1	N
Jul-99	1965.1	2389.6	337.8	337.8	1289.6	129.0	1488.4	31.0	1529.4	104.2	89	775.0	0.0		211.1	202.9.5	151.7	N
Aug-99	870.6	3260.2	0.0	0.0	870.6	87.1	783.6	34.4	817.9	102.5	87	775.0	0.0		64.6	188.3.0	145.6	N
Sep-99	1015.1	4275.3	0.0	0.0	1015.1	101.5	913.5	59.0	962.5	91.3	11	775.0	0.0		159.2	197.4.2	148.5	N
Oct-99	35.5	4329.7	0.0	0.0	35.5	3.5	42.1	0.0	42.1	39.5	0	144.4	0.0		0.0	182.8.4	142.8	N
Nov-99	36.0	4364.9	0.0	0.0	36.0	3.6	32.4	0.0	32.4	31.0	0	1.4	0.0		0.0	182.8.4	142.8	N
Dec-99	33.4	4403.2	0.0	0.0	33.4	3.3	34.6	0.0	34.6	12.9	0	0.0	0.0	2725.0	15.6	182.4.0	142.4	N
Jan-00	43.0	4446.2	21.5	21.5	0.0	0.0	21.5	1.9	23.4	19.0	0	0.0	0.0		20.0	182.8.4	142.6	N
Feb-00	129.7	4575.9	64.9	64.9	0.0	0.0	64.9	12.2	77.7	29.4	0	0.0	0.0		68.2	182.6.6	143.7	N
Mar-00	291.4	4867.3	145.7	145.7	0.0	0.0	145.7	10.6	156.3	42.9	0	0.0	0.0		120.6	199.8.9	150.5	N
Apr-00	76.7	5034.0	38.3	38.3	0.0	0.0	38.3	1.1	39.5	74.4	0	147.6	0.0		0.0	182.8.4	142.8	N
May-00	9.8	5043.8	4.9	4.9	0.0	0.0	4.9	0.0	4.9	79.2	99.3	0.0	0.0		-173.6	164.4.7	134.9	N
Jun-00	26.3	5070.1	13.2	13.2	0.0	0.0	13.2	19.9	33.1	126.9	102	0.0	0.0		-369.5	144.2.9	125.7	N
Jul-00	251.6	5321.7	125.2	125.2	0.0	0.0	125.2	12.6	137.8	108.1	99	0.0	0.0		-483.2	138.5.2	122.5	N
Aug-00	1411.5	6733.2	135.2	135.2	1140.0	114.0	1618.7	47.6	1666.3	82.7	87	606.3	0.0		0.0	182.8.4	142.8	N
Sep-00	72.6	6805.8	0.0	0.0	72.6	7.2	65.4	0.0	65.4	89.6	11	0.0	0.0		-35.2	178.3.2	141.2	N
Oct-00	936.6	7742.4	0.0	0.0	936.6	93.7	842.9	48.6	891.5	76.2	0	775.0	0.0		25.2	184.3.6	148.9	N
Nov-00	244.0	7986.4	0.0	0.0	244.0	24.4	219.6	5.0	224.6	31.2	0	218.5	0.0		0.0	182.8.4	142.8	N
Dec-00	75.5	8061.9	0.0	0.0	75.5	7.5	68.0	0.4	68.4	12.9	0	0.0	0.0	1745.4	49.4	186.7.2	144.9	N
Jan-01	213.6	8275.5	106.2	106.2	0.0	0.0	106.2	16.4	122.2	19.2	0	0.0	0.0		158.4	197.1.2	148.3	N
Feb-01	506.5	8782.0	258.3	258.3	0.0	0.0	258.3	9.7	268.0	30.6	0	0.0	0.0		382.8	220.4.2	158.2	N
Mar-01	1321.7	10103.7	139.9	139.9	941.9	94.2	1007.6	11.5	1019.1	47.9	0	0.0	0.0		1337.0	320.5.4	219.7	N
Apr-01	168.2	10271.9	0.0	0.0	168.2	16.8	151.9	4.6	156.5	108.6	0	750.0	0.0		684.2	250.9.2	171.5	N
May-01	48.9	10320.8	0.0	0.0	48.9	5.0	44.9	8.4	53.3	95.2	99.3	243.7	0.0		0.0	182.8.4	142.8	N
Jun-01	1.7	10322.5	0.0	0.0	1.7	0.2	1.5	3.2	4.7	184.3	102	0.0	0.0		-23.0	158.7.4	132.2	N
Jul-01	1.4	10323.9	0.0	0.0	1.4	0.1	1.3	3.0	4.3	108.4	99	0.0	0.0		-484.2	138.4.2	122.5	N
Aug-01	348.9	10672.8	0.0	0.0	348.9	34.9	309.5	32.3	341.8	82.7	87	0.0	0.0		-262.2	155.6.2	130.8	N
Sep-01	21.3	10694.1	0.0	0.0	21.3	2.1	19.2	12.4	31.6	82.0	11	0.0	0.0		-323.6	149.4.8	127.8	N
Oct-01	39.9	10734.0	0.0	0.0	39.9	4.0	35.9	6.7	42.6	70.9	0	0.0	0.0		-313.2	150.4.5	128.3	N
Nov-01	22.0	10756.0	0.0	0.0	22.0	2.2	19.8	5.6	25.4	27.9	0	0.0	0.0		-316.3	150.2.0	128.2	N
Dec-01	28.4	10784.4	0.0	0.0	28.4	2.8	25.6	7.9	33.5	17.0	0	0.0	0.0	1293.7	-299.9	151.5.5	128.9	N
Jan-02	13.9	10800.3	6.9	6.9	0.0	0.0	6.9	0.1	7.0	17.1	0	0.0	0.0		-308.9	150.8.4	128.5	N
Feb-02	12.5	10812.8	6.3	6.3	0.0	0.0	6.3	0.0	6.3	26.3	0	0.0	0.0		-330.0	148.8.4	127.5	N
Mar-02	16.6	10829.4	8.3	8.3	0.0	0.0	8.3	3.3	11.6	38.4	0	0.0	0.0		-356.9	146.1.5	126.3	N
Apr-02	15.9	10845.3	7.9	7.9	0.0	0.0	7.9	4.6	12.5	62.5	0	0.0	0.0		-406.2	141.1.6	123.2	N
May-02	7.6	10852.9	3.8	3.8	0.0	0.0	3.8	0.0	3.8	68.7	99.3	0.0	0.0		-571.0	124.7.4	115.5	N
Jun-02	0.4	10853.3	0.2	0.2	0.0	0.0	0.2	0.0	0.2	108.7	102	0.0	0.0		-781.4	108.7.0	100.8	N
Jul-02	234.0	11087.3	117.0	117.0	0.0	0.0	117.0	4.5	121.5	82.7	99	0.0	0.0		-841.6	97.6.8	100.8	N
Aug-02	40.0	11127.3	20.0	20.0	0.0	0.0	20.0	0.3	20.3	68.1	87	0.0	0.0		-976.4	84.2.0	90.5	N
Sep-02	700.4	11827.7	350.2	350.2	0.0	0.0	350.2	20.4	370.6	76.2	11	0.0	0.0		-673.6	114.4.2	105.9	N
Oct-02	7.1	11834.8	3.6	3.6	0.0	0.0	3.6	4.5	8.1	42.2	0	0.0	0.0		-707.7	111.0.7	105.9	N
Nov-02	89.5	11924.3	25.2	25.2	37.9	3.8	59.9	4.4	64.3	23.0	0	0.0	0.0		-666.4	115.2.0	105.9	N
Dec-02	26.4	11950.7	0.0	0.0	26.4	2.6	23.8	2.6	26.4	14.1	0	0.0	0.0	0.0	-654.0	116.4.4	105.9	N

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial YPT 30% to 350 [AF]	Initial Prescott 30% to 350 [AF]	Remaining Granite Creek Inflow [AF]	10% to 450 [AF]	Remaining Inflow After YPT Potential Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Debris Punch & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Watson/Wilow Contents [AF]	Watson/Wilow Surface Area [Ac]	Wilow in Use for N
Jan-08	40.5	40.5	20.2	20.2	0.0	0.0	20.2	6.1	26.3	14.1	0	0.0	0.0		-641.7	117.6.7	105.9 N	
Feb-08	720.6	321.0	390.3	390.3	0.0	0.0	390.3	26.5	416.2	21.7	0	0.0	0.0		-246.7	137.1.7	131.3 N	
Mar-08	3127.2	4008.2	139.5	139.5	2908.2	290.2	2736.9	11.9	2768.2	39.7	0	0.0	0.0		2482.5	4200.2	301.1 Y	
Apr-08	164.4	4172.6	0.0	0.0	164.4	16.4	148.0	6.0	154.0	142.9	0	730.0	0.0		1737.6	3756.0	249.2 Y	
May-08	27.9	4200.5	0.0	0.0	27.9	2.2	25.1	6.2	31.4	138.6	99.3	775.0	0.0		736.1	2774.4	174.4 N	
Jun-08	0.1	4200.6	0.0	0.0	0.1	0.0	0.1	0.0	0.1	164.1	102	490.1	0.0		0.0	1218.4	142.2 N	
Jul-08	346.4	4747.0	0.0	0.0	346.4	34.6	491.2	39.2	511.5	117.1	99	295.4	0.0		0.0	1218.4	142.2 N	
Aug-08	922.9	5669.9	0.0	0.0	922.9	92.3	837.6	43.6	881.1	96.5	87	697.7	0.0		0.0	1218.4	142.2 N	
Sep-08	174.2	5844.7	0.0	0.0	174.2	0.0	174.2	4.2	179.0	89.6	11	78.4	0.0		0.0	1218.4	142.2 N	
Oct-08	2.0	5846.8	0.0	0.0	2.0	0.0	2.0	0.1	2.1	36.2	0	0.0	0.0		-34.7	1763.7	140.2 N	
Nov-08	192.2	6045.6	0.0	0.0	192.2	0.0	192.2	16.1	214.9	30.5	0	129.2	0.0		0.0	1218.4	142.2 N	
Dec-08	70.6	6116.2	0.0	0.0	70.6	0.0	70.6	5.2	75.9	15.9	0	0.0	0.0	3216.3	36.9	127.5.3	145.3 N	
Jan-04	67.7	67.7	33.2	33.2	0.0	0.0	33.2	9.6	42.4	19.3	0	0.0	0.0		21.0	129.9.4	146.2 N	
Feb-04	148.2	216.5	74.4	74.4	0.0	0.0	74.4	10.4	84.2	30.0	0	0.0	0.0		13.5.2	1954.2	148.2 N	
Mar-04	148.2	364.3	74.4	74.4	0.0	0.0	74.4	3.0	77.4	44.2	0	0.0	0.0		168.4	198.2.2	170.0 N	
Apr-04	434.0	819.3	227.0	227.0	0.0	0.0	227.0	23.0	230.0	74.2	0	344.2	0.0		0.0	1218.4	142.2 N	
May-04	10.2	830.1	5.4	5.4	0.0	0.0	5.4	0.0	5.4	79.2	99.3	0.0	0.0		-173.1	164.9.3	134.9 N	
Jun-04	0.0	830.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.9	102	0.0	0.0		-402.0	1416.4	124.1 N	
Jul-04	248.1	1078.2	124.1	124.1	0.0	0.0	124.1	0.2	124.9	101.2	99	0.0	0.0		-477.9	1340.5	120.3 N	
Aug-04	162.5	1246.7	10.9	10.9	146.7	14.7	142.9	0.0	142.9	81.3	87	0.0	0.0		-308.2	131.9.2	119.0 N	
Sep-04	61.1	1307.8	0.0	0.0	61.1	6.1	55.0	5.5	60.4	74.6	11	0.0	0.0		-328.3	1289.9	117.7 N	
Oct-04	901.7	2209.5	0.0	0.0	901.7	90.2	811.6	26.0	837.6	46.2	0	262.3	0.0		0.0	1218.4	142.2 N	
Nov-04	1780.1	3989.6	0.0	0.0	1780.1	178.0	1602.1	24.6	1626.7	31.0	0	775.0	0.0		820.7	2629.1	176.9 N	
Dec-04	2955.9	6945.6	0.0	0.0	2955.9	161.0	2794.9	26.1	2821.0	23.5	0	0.0	357.4	1321.4	3080.2	4299.2	337.4 Y	
Jan-03	6716.2	6716.2	330.0	330.0	3616.2	430.0	3716.2	93.6	3809.2	44.2	0	0.0	376.5.0		3080.2	4299.2	337.4 Y	
Feb-03	7636.0	14352.2	0.0	0.0	7636.0	0.0	7636.0	88.2	7724.9	69.2	0	0.0	7655.7		3080.2	4299.2	337.4 Y	
Mar-03	1339.6	15711.8	0.0	0.0	1339.6	0.0	1339.6	27.6	1367.2	101.7	0	0.0	128.5.4		3080.2	4299.2	337.4 Y	
Apr-03	608.4	16320.2	0.0	0.0	608.4	0.0	608.4	26.4	634.9	166.9	0	730.0	0.0		2792.2	4617.2	320.5 Y	
May-03	200.6	16520.8	0.0	0.0	200.6	0.0	200.6	0.2	201.4	177.2	99.3	775.0	0.0		1942.0	3766.4	265.1 Y	
Jun-03	28.5	16549.3	0.0	0.0	28.5	0.0	28.5	40.9	69.4	249.4	102	775.0	0.0		291.0	2709.4	179.6 N	
Jul-03	37.4	16686.7	0.0	0.0	37.4	0.0	37.4	16.5	73.2	147.3	99	712.6	0.0		0.0	1218.4	142.2 N	
Aug-03	1529.9	18116.6	0.0	0.0	1529.9	0.0	1529.9	32.6	1562.4	96.5	87	775.0	0.0		610.0	2422.4	162.5 N	
Sep-03	98.0	18214.6	0.0	0.0	98.0	0.0	98.0	1.3	99.2	105.7	11	436.2	0.0		122.7	1937.1	142.2 N	
Oct-03	40.0	18254.6	0.0	0.0	40.0	0.0	40.0	15.6	55.6	39.2	0	0.0	0.0		135.1	1935.5	142.6 N	
Nov-03	12.3	18266.9	0.0	0.0	12.3	0.0	12.3	1.5	13.2	32.3	0	0.0	0.0		116.7	1933.1	147.2 N	
Dec-03	22.9	18309.7	0.0	0.0	22.9	0.0	22.9	0.0	22.9	19.6	0	0.0	0.0	4247.4	119.9	1933.3	142.0 N	
Jan-06	27.1	27.1	13.6	13.6	0.0	0.0	13.6	0.5	14.0	19.6	0	0.0	0.0		114.3	1932.7	147.7 N	
Feb-06	21.5	48.6	10.7	10.7	0.0	0.0	10.7	0.0	10.7	30.2	0	0.0	0.0		94.2	1913.2	146.2 N	
Mar-06	177.6	226.3	88.2	88.2	0.0	0.0	88.2	12.2	101.7	44.3	0	0.0	0.0		132.2	1970.6	149.3 N	
Apr-06	93.2	320.0	46.9	46.9	0.0	0.0	46.9	7.0	53.2	73.2	0	132.2	0.0		0.0	1218.4	142.2 N	
May-06	16.0	336.1	2.0	2.0	0.0	0.0	2.0	0.7	2.7	79.2	99.3	0.0	0.0		-169.2	1642.6	135.1 N	
Jun-06	42.2	379.2	21.6	21.6	0.0	0.0	21.6	15.4	37.0	127.1	102	0.0	0.0		-361.9	1456.5	126.0 N	
Jul-06	62.2	441.5	31.6	31.6	0.0	0.0	31.6	23.9	55.6	108.3	99	0.0	0.0		-306.7	1309.7	112.7 N	
Aug-06	229.5	671.0	114.7	114.7	0.0	0.0	114.7	12.6	133.3	80.2	87	0.0	0.0		-342.3	127.9.9	117.0 N	
Sep-06	237.9	929.9	129.0	129.0	0.0	0.0	129.0	12.2	141.1	73.4	11	0.0	0.0		-425.2	1332.6	119.9 N	
Oct-06	42.6	973.4	24.3	24.3	0.0	0.0	24.3	7.9	32.2	47.7	0	0.0	0.0		-301.3	1317.1	119.1 N	
Nov-06	12.1	980.5	6.1	6.1	0.0	0.0	6.1	0.0	6.1	25.9	0	0.0	0.0		-321.1	1297.3	118.1 N	
Dec-06	21.4	1001.9	10.7	10.7	0.0	0.0	10.7	2.0	12.7	19.7	0	0.0	0.0	132.2	-324.1	1294.3	117.9 N	

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial YPIT 30% to 550 [AF]	Initial Prescott 30% to 550 [AF]	Remaining Granite Creek Inflow [AF]		Remaining Inflow After YPIT Potential Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Dells Pumphouse & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Watson/Willow Contents [AF]	Watson/Willow Surface Area [Ac]	Willow in Use Y or N	
Date	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[AF]	[Ac]	[Y or N]	
Jan-07	26.6	26.6	43.3	43.3	0.0	0.0	43.3	4.3	17.6	13.6	0	0.0	0.0		-321.1	129.6	112.0	N	
Feb-07	41.5	68.1	20.8	20.8	0.0	0.0	20.8	5.9	26.7	24.2	0	0.0	0.0		-319.7	129.2	112.2	N	
Mar-07	101.7	169.8	30.8	30.8	0.0	0.0	30.8	14.1	64.9	37.6	0	0.0	0.0		-480.4	132.0	119.6	N	
Apr-07	27.8	197.6	13.9	13.9	0.0	0.0	13.9	1.7	15.6	38.1	0	0.0	0.0		-353.9	128.4	117.4	N	
May-07	9.7	207.3	4.9	4.9	0.0	0.0	4.9	0.8	37	63.1	99.3	0.0	0.0		-692.7	112.5	105.9	N	
Jun-07	0.1	207.5	0.1	0.1	0.0	0.0	0.1	0.0	0.1	99.6	102	0.0	0.0		-894.3	92.4	93.7	N	
Jul-07	462.0	669.4	23.0	23.0	0.0	0.0	23.0	12.5	248.5	78.5	99	0.0	0.0		-828.3	99.0	100.8	N	
Aug-07	32.9	722.3	26.4	26.4	0.0	0.0	26.4	3.9	30.3	68.1	87	0.0	0.0		-938.0	86.5	90.5	N	
Sep-07	200.1	922.5	100.1	100.1	0.0	0.0	100.1	10.2	110.3	36.8	11	0.0	0.0		-910.5	90.9	93.7	N	
Oct-07	5.4	927.8	2.7	2.7	0.0	0.0	2.7	0.2	2.8	38.1	0	0.0	0.0		-945.2	87.2	93.7	N	
Nov-07	44.2	972.1	22.1	22.1	0.0	0.0	22.1	5.4	27.5	20.8	0	0.0	0.0		-939.0	87.4	93.7	N	
Dec-07	1522.6	2494.7	64.0	64.0	1394.7	139.5	1319.2	12.5	1331.7	12.7	0	0.0	0.0	0.0		380.0	219.3	136.5	N
Jan-08	4078.6	4078.6	50.0	50.0	2978.6	297.9	3230.7	32.9	3263.6	21.0	0	0.0	34.12		308.0	429.2	337.4	Y	
Feb-08	2626.1	6704.7	0.0	0.0	2626.1	132.1	2474.0	46.1	2520.1	69.2	0	0.0	2430.9		308.0	429.2	337.4	Y	
Mar-08	581.68	7286.4	0.0	0.0	583.7	0.0	583.7	3.4	587.0	101.7	0	0.0	48.53		308.0	429.2	337.4	Y	
Apr-08	102.9	7391.3	0.0	0.0	102.9	0.0	102.9	0.3	108.1	166.9	0	730.0	0.0		2267.1	408.5	287.2	Y	
May-08	35.6	7444.9	0.0	0.0	35.6	0.0	35.6	12.7	66.3	138.3	99.3	775.0	0.0		1299.2	311.8	211.8	Y	
Jun-08	8.3	7453.2	0.0	0.0	8.3	0.0	8.3	0.0	8.3	199.3	102	775.0	0.0		231.2	205.0	132.6	N	
Jul-08	334.2	7807.4	0.0	0.0	334.2	0.0	334.2	29.2	363.4	125.2	99	391.1	0.0		0.0	121.4	142.8	N	
Aug-08	339.7	8167.1	0.0	0.0	339.7	0.0	339.7	22.7	362.4	96.5	87	199.0	0.0		0.0	121.4	142.8	N	
Sep-08	44.9	8212.1	0.0	0.0	44.9	0.0	44.9	9.3	54.2	29.6	11	0.0	0.0		-46.3	177.2	140.7	N	
Oct-08	3.3	8215.4	0.0	0.0	3.3	0.0	3.3	0.2	3.5	36.0	0	0.0	0.0		-98.2	171.9	138.4	N	
Nov-08	109.5	8324.9	0.0	0.0	109.5	0.0	109.5	13.1	122.6	30.0	0	0.0	0.0		-6.2	131.2	142.5	N	
Dec-08	1698.2	10023.1	0.0	0.0	1698.2	0.0	1698.2	27.1	1725.2	18.9	0	0.0	0.0	2890.1	1700.1	3518.5	246.5	Y	
Jan-09	337.6	10360.7	168.2	168.2	0.0	0.0	168.2	2.9	171.7	32.7	0	0.0	0.0		1239.1	367.5	257.1	Y	
Feb-09	1911.5	12272.2	381.2	381.2	1149.1	114.9	1415.4	32.4	1447.7	52.7	0	0.0	153.3		308.0	429.2	337.4	Y	
Mar-09	466.0	12738.2	0.0	0.0	466.0	46.6	419.4	0.0	419.4	101.7	0	0.0	317.7		308.0	429.2	337.4	Y	
Apr-09	192.9	12931.1	0.0	0.0	192.9	19.3	173.6	11.0	184.6	166.9	0	730.0	0.0		2348.5	416.6	292.6	Y	
May-09	36.4	12967.5	0.0	0.0	36.4	3.6	30.7	21.0	71.7	162.3	99.3	775.0	0.0		1333.6	320.2	219.5	Y	
Jun-09	5.0	12972.5	0.0	0.0	5.0	0.5	4.5	7.7	12.2	206.5	102	775.0	0.0		312.3	213.0	159.8	N	
Jul-09	282.5	13255.0	0.0	0.0	282.5	28.2	208.2	20.5	228.2	127.8	99	312.5	0.0		0.0	121.4	142.8	N	
Aug-09	3.1	13258.1	0.0	0.0	3.1	0.3	2.8	7.4	10.2	96.5	87	0.0	0.0		-173.3	164.5	134.9	N	
Sep-09	15.2	13273.3	0.0	0.0	15.2	1.6	14.2	4.6	18.8	84.6	11	0.0	0.0		-230.1	136.8	131.3	N	
Oct-09	0.7	13274.0	0.0	0.0	0.7	0.1	0.7	0.3	1.0	52.3	0	0.0	0.0		-301.4	131.0	128.9	N	
Nov-09	2.3	13276.3	0.0	0.0	2.3	0.2	2.1	1.0	3.1	28.0	0	0.0	0.0		-326.3	149.2	127.7	N	
Dec-09	193.3	13469.6	0.0	0.0	193.3	19.3	174.0	12.6	186.6	16.9	0	0.0	0.0	2615.2	-130.6	166.7	136.0	N	
Jan-10	6308.2	6308.2	50.0	50.0	3208.2	430.0	3608.2	37.9	3646.0	12.0	0	0.0	209.6		308.0	429.2	337.4	Y	
Feb-10	2085.9	8394.1	0.0	0.0	2085.9	0.0	2085.9	35.1	2121.0	69.2	0	0.0	2091.8		308.0	429.2	337.4	Y	
Mar-10	3496.4	11890.5	0.0	0.0	3496.4	0.0	3496.4	23.6	3520.0	101.7	0	0.0	3413.3		308.0	429.2	337.4	Y	
Apr-10	494.2	12384.7	0.0	0.0	494.2	0.0	494.2	8.7	502.9	166.9	0	730.0	0.0		2666.9	448.5	312.5	Y	
May-10	82.0	12466.7	0.0	0.0	82.0	0.0	82.0	0.0	82.0	173.4	99.3	775.0	0.0		1701.2	351.9	246.7	Y	
Jun-10	7.0	12473.7	0.0	0.0	7.0	0.0	7.0	6.4	13.4	232.1	102	775.0	0.0		605.5	242.3	168.3	N	
Jul-10	40.5	12514.2	0.0	0.0	40.5	0.0	40.5	17.8	58.3	132.0	99	426.8	0.0		0.0	121.4	142.8	N	
Aug-10	34.3	12548.6	0.0	0.0	34.3	0.0	34.3	20.0	54.3	96.5	87	0.0	0.0		-129.1	168.3	137.0	N	
Sep-10	5.3	12553.9	0.0	0.0	5.3	0.0	5.3	0.3	5.7	85.9	11	0.0	0.0		-220.4	138.0	132.7	N	
Oct-10	189.9	12743.8	0.0	0.0	189.9	0.0	189.9	34.4	224.3	32.8	0	0.0	0.0		-48.9	176.9	140.6	N	
Nov-10	30.7	12774.5	0.0	0.0	30.7	0.0	30.7	3.3	34.0	30.5	0	0.0	0.0		-45.5	177.2	140.7	N	
Dec-10	411.6	13186.1	0.0	0.0	411.6	0.0	411.6	24.3	435.9	12.7	0	0.0	0.0	2726.3	371.7	219.0	136.2	N	

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial YPIT 30% to 350 [AF]	Initial Prescott 30% to 350 [AF]	Remaining Granite Creek Inflow [AF]	10% to 450 [AF]	Remaining Inflow After YPIT Potential Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Delta Punch & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Watson/Willow Contents [AF]	Watson/Willow Surface Area [Ac]	Willow in Use Volume
Jan-11	482.4	482.4	242.7	242.7	0.0	0.0	242.7	0.0	242.7	21.0	0	0.0	0.0		992.4	2411.8	167.2	N
Feb-11	448.9	929.3	222.0	222.0	0.0	0.0	222.0	18.2	240.1	34.4	0	0.0	0.0		799.1	2617.5	176.1	N
Mar-11	836.4	1787.7	85.3	85.3	687.7	68.8	704.3	4.3	708.5	38.1	0	0.0	0.0		1424.6	3273.0	223.2	Y
Apr-11	236.9	2044.6	0.0	0.0	236.9	23.7	231.2	4.7	235.9	111.7	0	730.0	0.0		828.2	2647.2	177.2	N
May-11	51.8	2096.4	0.0	0.0	51.8	5.2	46.6	4.4	51.1	98.3	99.3	682.2	0.0		0.0	4218.4	142.2	N
Jun-11	4.9	2101.3	0.0	0.0	4.9	0.5	4.4	0.0	4.4	134.3	102	0.0	0.0		-231.9	1366.5	132.2	N
Jul-11	9.9	2111.2	0.0	0.0	9.9	1.0	8.9	28.8	37.7	108.4	99	0.0	0.0		-401.6	1416.7	124.1	N
Aug-11	23.7	2134.9	0.0	0.0	23.7	2.4	21.3	2.6	23.9	83.2	87	0.0	0.0		-248.6	1269.8	116.6	N
Sep-11	94.1	2229.1	0.0	0.0	94.1	9.4	84.7	17.5	102.2	73.1	11	0.0	0.0		-780.5	1287.9	117.6	N
Oct-11	46.7	2275.8	0.0	0.0	46.7	4.7	42.0	2.7	39.8	46.8	0	0.0	0.0		-326.5	1291.8	117.2	N
Nov-11	29.8	2305.5	0.0	0.0	29.8	3.0	26.8	2.0	34.8	25.6	0	0.0	0.0		-517.3	1301.1	118.3	N
Dec-11	151.7	2457.2	0.0	0.0	151.7	15.2	136.5	17.2	153.7	15.7	0	0.0	0.0	1482.2	-379.3	1489.1	123.2	N
Jan-12	49.1	49.1	24.6	24.6	0.0	0.0	24.6	1.0	25.6	16.6	0	0.0	0.0		-370.3	1442.1	125.6	N
Feb-12	32.5	87.6	19.2	19.2	0.0	0.0	19.2	2.7	22.0	25.2	0	0.0	0.0		-374.1	1444.3	125.4	N
Mar-12	32.5	126.1	19.2	19.2	0.0	0.0	19.2	14.2	33.5	37.2	0	0.0	0.0		-378.4	1489.9	125.2	N
Apr-12	136.2	264.3	79.1	79.1	0.0	0.0	79.1	5.5	84.6	61.9	0	0.0	0.0		-325.7	1462.6	126.3	N
May-12	12.9	304.2	9.5	9.5	0.0	0.0	9.5	0.0	9.5	70.1	99.3	0.0	0.0		-515.7	1302.7	112.4	N
Jun-12	1.0	304.2	0.5	0.5	0.0	0.0	0.5	0.0	0.5	111.4	102	0.0	0.0		-728.5	1069.9	105.9	N
Jul-12	513.3	817.6	236.7	236.7	0.0	0.0	236.7	26.6	283.2	86.9	99	0.0	0.0		-631.2	1187.2	112.3	N
Aug-12	130.1	947.6	65.0	65.0	0.0	0.0	65.0	27.4	92.5	75.9	87	0.0	0.0		-701.6	1116.2	105.9	N
Sep-12	82.4	1031.0	41.7	41.7	0.0	0.0	41.7	5.2	46.9	66.4	11	0.0	0.0		-732.1	1086.3	105.9	N
Oct-12	5.7	1036.7	2.8	2.8	0.0	0.0	2.8	1.1	4.0	42.2	0	0.0	0.0		-770.3	1048.1	100.2	N
Nov-12	7.5	1044.2	3.2	3.2	0.0	0.0	3.2	1.0	4.8	21.9	0	0.0	0.0		-787.4	1031.0	100.2	N
Dec-12	112.0	1162.2	27.9	27.9	62.2	6.2	83.9	9.3	93.2	13.4	0	0.0	0.0	0.0	-707.5	1110.9	105.9	N
Jan-13	1206.2	1206.2	550.0	550.0	106.2	10.7	646.1	17.0	663.2	14.1	0	0.0	0.0		-36.4	1760.0	140.2	N
Feb-13	292.4	1499.2	0.0	0.0	292.4	39.9	252.5	2.6	255.1	28.7	0	0.0	0.0		167.9	1956.3	130.0	N
Mar-13	289.5	1788.7	0.0	0.0	289.5	28.9	260.5	3.0	263.5	45.2	0	0.0	0.0		326.2	2204.6	138.2	N
Apr-13	45.6	1834.3	0.0	0.0	45.6	4.6	41.0	1.2	42.2	78.5	0	349.9	0.0		0.0	1218.4	142.2	N
May-13	10.6	1844.9	0.0	0.0	10.6	1.1	9.5	0.4	9.9	79.2	99.3	0.0	0.0		-168.6	1649.8	135.2	N
Jun-13	1.2	1846.7	0.0	0.0	1.2	0.2	1.6	0.1	1.7	127.2	102	0.0	0.0		-396.1	1422.3	124.4	N
Jul-13	472.1	2324.8	0.0	0.0	472.1	47.2	430.3	34.3	464.6	102.0	99	0.0	0.0		-132.5	1655.9	136.9	N
Aug-13	327.0	2651.8	0.0	0.0	327.0	32.7	294.3	27.3	321.5	92.5	87	9.5	0.0		0.0	1218.4	142.2	N
Sep-13	644.2	3296.0	0.0	0.0	644.2	64.4	579.8	29.5	609.3	89.6	11	506.7	0.0		0.0	1218.4	142.2	N
Oct-13	6.9	3302.9	0.0	0.0	6.9	0.7	6.2	2.7	9.0	36.2	0	0.0	0.0		-47.9	1770.5	140.6	N
Nov-13	212.1	3515.0	0.0	0.0	212.1	21.2	190.9	19.9	210.8	30.5	0	137.5	0.0		0.0	1218.4	142.2	N
Dec-13	112.7	3633.8	0.0	0.0	112.7	11.9	106.9	3.7	110.6	18.9	0	0.0	0.0	1000.7	91.6	1910.0	146.7	N
Jan-14	58.2	3733.8	26.9	26.9	0.0	0.0	26.9	0.6	27.5	19.5	0	0.0	0.0		99.6	1912.0	147.1	N
Feb-14	33.2	3776.6	16.9	16.9	0.0	0.0	16.9	1.5	18.4	30.2	0	0.0	0.0		87.9	1906.3	146.6	N
Mar-14	246.2	4022.8	123.1	123.1	0.0	0.0	123.1	6.2	129.3	44.2	0	0.0	0.0		173.0	1991.4	150.1	N
Apr-14	34.7	4057.5	17.3	17.3	0.0	0.0	17.3	3.6	21.0	74.2	0	119.7	0.0		0.0	1218.4	142.2	N
May-14	4.2	4061.7	2.4	2.4	0.0	0.0	2.4	0.0	2.4	79.2	99.3	0.0	0.0		-176.1	1642.3	134.2	N
Jun-14	0.0	4061.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.2	102	0.0	0.0		-404.9	1413.5	123.9	N
Jul-14	701.1	4762.8	330.6	330.6	0.0	0.0	330.6	12.9	343.5	101.6	99	0.0	0.0		-236.1	1382.3	132.0	N
Aug-14	2826.2	7589.0	12.2	12.2	2801.3	280.1	2521.3	51.4	2572.7	89.2	87	775.0	0.0		1392.1	3216.5	220.7	Y
Sep-14	1577.2	9166.2	0.0	0.0	1577.2	157.2	1420.0	47.6	1467.6	138.4	11	775.0	0.0		1941.3	3759.7	264.7	Y
Oct-14	132.9	9300.1	0.0	0.0	132.9	12.1	120.8	3.1	123.9	105.4	0	775.0	0.0		1124.2	3003.2	194.9	N
Nov-14	155.3	9455.4	0.0	0.0	155.3	0.0	155.3	0.3	155.6	42.3	0	775.0	0.0		523.1	2341.5	164.9	N
Dec-14	209.9	9665.3	0.0	0.0	209.9	0.0	209.9	26.5	236.4	21.9	0	0.0	0.0	3219.7	737.7	2596.1	173.6	N

Attachment 1

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Granite Creek Gaged Inflow [AF]	Cumulative Inflow [AF]	Initial YPT 30% to 350 [AF]	Initial Prescott 30% to 350 [AF]	Remaining Granite Creek Inflow [AF]	10% to 450 [AF]	Remaining Inflow After YPT Potentials Diversion [AF]	Precipitation on Reservoir [AF]	Available Inflow [AF]	Evaporation [AF]	Granite Delta Reach & CVID Water Rights [AF]	To Recharge [AF]	Spill [AF]	Annual Yield [AF]	End of Month Operational Storage [AF]	Watson/Willow Contents [AF]	Watson/Willow Surface Area [Ac]	Willow in Use Yr or N
Jan-15	384.4	384.4	192.2	192.2	0.0	0.0	192.2	21.7	213.9	23.0	0	0.0	0.0		928.6	2746.9	181.0	N
Feb-15	718.0	1102.4	377.2	377.2	2.5	0.2	360.0	10.6	370.6	37.1	0	0.0	0.0		1262.0	3080.4	200.2	Y
Mar-15	1988.5	3091.0	0.0	0.0	1988.5	198.8	1789.6	25.7	1815.3	60.4	0	0.0	0.0		3017.0	488.5	338.8	Y
Apr-15	157.2	3248.1	0.0	0.0	157.2	15.7	141.4	9.7	151.2	165.1	0	750.0	0.0		2235.1	407.1	286.2	Y
May-15	122.0	3370.1	0.0	0.0	122.0	12.2	109.8	24.6	134.4	130.2	99.3	775.0	0.0		1334.4	317.2	216.9	Y
Jun-15	7.2	3377.3	0.0	0.0	7.2	0.7	6.4	39.2	45.7	204.1	102	775.0	0.0		319.0	2137.4	176.2	N
Jul-15	102.4	3479.7	0.0	0.0	102.4	10.2	92.2	44.8	137.0	128.1	99	228.2	0.0		0.0	1818.4	142.8	N
Aug-15	70.1	3549.9	0.0	0.0	70.1	7.0	63.1	19.2	82.3	96.5	27	0.0	0.0		-101.2	1717.2	138.2	N
Sep-15	24.2	3574.1	0.0	0.0	24.2	2.4	21.8	3.9	25.7	86.7	11	0.0	0.0		-173.1	1645.2	134.9	N
Oct-15	82.8	3656.9	0.0	0.0	82.8	8.3	74.5	22.1	96.6	76.7	0	0.0	0.0		-130.2	1688.2	136.9	N
Nov-15	49.9	3706.7	0.0	0.0	49.9	5.0	44.9	10.0	54.9	29.7	0	0.0	0.0		-105.0	1713.4	138.1	N
Dec-15	48.2	3754.9	0.0	0.0	48.2	4.8	43.4	3.5	46.9	18.3	0	0.0	0.0	2528.8	-76.5	1741.9	139.4	N
Jan-16	213.1	213.1	106.5	106.5	0.0	0.0	106.5	16.1	122.7	12.5	0	0.0	0.0		27.7	1246.1	144.0	N
Feb-16	252.0	465.0	126.0	126.0	0.0	0.0	126.0	1.1	127.1	29.5	0	0.0	0.0		125.2	1943.6	148.1	N
Mar-16	82.2	547.2	41.1	41.1	0.0	0.0	41.1	2.0	43.1	44.7	0	0.0	0.0		123.6	1942.0	148.1	N
Apr-16	41.3	588.5	20.6	20.6	0.0	0.0	20.6	20.5	41.1	73.2	0	91.5	0.0		0.0	1818.4	142.8	N
May-16	24.0	612.5	12.0	12.0	0.0	0.0	12.0	5.7	17.7	79.2	99.3	0.0	0.0		-160.8	1657.6	135.5	N
Jun-16	0.0	612.5	0.0	0.0	0.0	0.0	0.0	4.2	4.2	127.5	102	0.0	0.0		-336.1	1482.3	124.9	N
Jul-16	1.1	613.5	0.5	0.5	0.0	0.0	0.5	7.8	8.4	102.4	99	0.0	0.0		-379.2	1239.2	115.0	N
Aug-16	1028.8	1642.3	248.2	248.2	542.8	54.2	78.3	76.2	787.5	77.7	27	48.6	0.0		0.0	1818.4	142.8	N
Sep-16	233.8	1876.7	0.0	0.0	233.8	23.3	210.0	27.7	237.7	89.6	11	137.2	0.0		0.0	1818.4	142.8	N
Oct-16	39.8	1916.4	0.0	0.0	39.8	4.0	35.8	8.3	44.1	76.2	0	0.0	0.0		-12.7	1805.7	142.2	N
Nov-16	81.4	1997.8	0.0	0.0	81.4	8.1	73.2	12.6	85.8	30.9	0	42.2	0.0		0.0	1818.4	142.8	N
Dec-16	632.2	2629.0	0.0	0.0	632.2	63.2	269.0	31.7	600.7	18.9	0	0.0	0.0	314.5	35.1	2400.1	167.3	N
Jan-17	1243.3	1243.3	550.0	550.0	143.3	14.3	679.0	26.9	705.9	22.2	0	0.0	0.0		1265.4	3083.2	208.7	Y
Feb-17	2385.7	3779.0	0.0	0.0	2385.7	238.5	2267.8	26.0	2293.8	41.8	0	0.0	48.6		3080.8	4899.2	337.4	Y
Mar-17	3298.9	7077.9	0.0	0.0	3298.9	329.8	3131.1	19.1	3150.2	101.7	0	0.0	3048.5		3080.8	4899.2	337.4	Y
Apr-17	301.9	7379.8	0.0	0.0	301.9	30.1	301.9	3.1	305.0	166.9	0	750.0	0.0		2469.0	4287.4	300.3	Y
May-17	104.9	7484.7	0.0	0.0	104.9	10.4	104.9	16.3	121.1	166.6	99.3	775.0	0.0		1349.2	3367.6	234.1	Y
Jun-17	16.2	7500.9	0.0	0.0	16.2	1.6	16.2	0.0	16.2	220.2	102	775.0	0.0		468.2	2286.6	162.6	N
Jul-17	412.7	7913.6	0.0	0.0	412.7	41.2	412.7	61.2	473.9	133.4	99	706.7	0.0		0.0	1818.4	142.8	N
Aug-17	211.1	8124.6	0.0	0.0	211.1	21.1	211.1	28.9	240.0	96.5	27	56.5	0.0		0.0	1818.4	142.8	N
Sep-17	10.7	8135.4	0.0	0.0	10.7	1.0	10.7	6.3	17.1	89.6	11	0.0	0.0		-83.5	1734.9	139.1	N
Oct-17	4.2	8139.6	0.0	0.0	4.2	0.4	4.2	0.0	4.2	55.4	0	0.0	0.0		-134.7	1683.7	136.7	N
Nov-17	10.0	8149.6	0.0	0.0	10.0	1.0	10.0	0.0	10.0	29.7	0	0.0	0.0		-154.4	1664.0	135.9	N
Dec-17	15.1	8164.7	0.0	0.0	15.1	1.5	15.1	0.0	15.1	18.0	0	0.0	0.0	3066.3	-137.3	1661.1	135.7	N
Jan-18	32.2	32.2	16.1	16.1	0.0	0.0	16.1	3.0	24.1	12.0	0	0.0	0.0		-151.2	1667.2	136.0	N
Feb-18	28.4	60.6	14.2	14.2	0.0	0.0	14.2	4.5	18.7	27.9	0	0.0	0.0		-160.3	1658.1	135.5	N
Mar-18	31.2	91.7	15.6	15.6	0.0	0.0	15.6	3.7	19.3	40.9	0	0.0	0.0		-151.9	1636.5	134.5	N
Apr-18	20.3	112.1	10.2	10.2	0.0	0.0	10.2	0.0	10.2	66.5	0	0.0	0.0		-238.2	1360.2	131.9	N
May-18	7.3	119.4	3.6	3.6	0.0	0.0	3.6	4.1	7.7	73.2	99.3	0.0	0.0		-408.0	1415.4	124.0	N
Jun-18	0.0	119.4	0.0	0.0	0.0	0.0	0.0	0.6	0.6	116.7	102	0.0	0.0		-621.0	1197.4	112.8	N
Jul-18	515.9	635.2	257.9	257.9	0.0	0.0	257.9	42.2	300.1	92.5	99	0.0	0.0		-512.4	1306.0	118.5	N
Aug-18	466.0	1101.2	232.4	232.4	1.2	0.1	233.5	31.9	265.4	80.0	27	0.0	0.0		-414.1	1404.3	123.5	N
Sep-18	67.8	1169.0	0.0	0.0	67.8	6.8	61.0	4.7	65.7	77.5	11	0.0	0.0		-436.8	1381.6	122.3	N
Oct-18	169.5	1338.4	0.0	0.0	169.5	16.9	152.5	20.1	172.6	48.7	0	0.0	0.0		-312.9	1305.3	128.3	N
Nov-18	56.7	1395.1	0.0	0.0	56.7	5.6	48.3	4.0	52.3	27.9	0	0.0	0.0		-288.4	1280.0	129.5	N
Dec-18	45.5	1440.6	0.0	0.0	45.5	4.5	40.9	1.8	42.8	17.2	0	0.0	0.0	0.0	-262.9	1355.5	130.7	N

Attachment 1

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Jan-19	606.4	606.4	308.2	308.2	0.0	0.0	308.2	16.2	320.0	17.3	0	0.0	0.0		39.2	1278.2	144.5	N
Feb-19	3794.0	4400.4	246.2	246.2	3300.4	330.0	3217.1	33.5	3250.6	29.6	0	0.0	12.0		3060.2	4299.2	337.4	Y
Mar-19	2792.5	7192.8	0.0	0.0	2792.5	120.0	2672.5	31.2	2708.7	101.7	0	0.0	2602.0		3060.2	4299.2	337.4	Y
Apr-19	237.3	7430.2	0.0	0.0	237.3	0.0	237.3	2.5	239.8	166.9	0	790.0	0.0		2408.2	4222.2	296.1	Y
May-19	155.3	7585.5	0.0	0.0	155.3	0.0	155.3	28.6	184.0	164.3	99.3	775.0	0.0		1548.2	3367.6	234.1	Y
Jun-19	33.0	7618.5	0.0	0.0	33.0	0.0	33.0	2.1	35.1	220.2	102	775.0	0.0		487.1	2305.5	163.4	N
Jul-19	9.2	7628.2	0.0	0.0	9.2	0.0	9.2	13.9	23.6	134.0	99	277.7	0.0		0.0	1213.4	142.3	N
Aug-19	11.0	7639.3	0.0	0.0	11.0	0.0	11.0	3.6	14.6	96.5	27	0.0	0.0		-168.9	1649.5	135.2	N
Sep-19	34.3	7693.5	0.0	0.0	34.3	0.0	34.3	24.6	72.2	84.3	11	0.0	0.0		-125.2	1632.6	134.4	N
Oct-19	2.9	7702.4	0.0	0.0	2.9	0.0	2.9	0.0	2.9	76.5	0	0.0	0.0		-230.4	1763.0	132.3	N
Nov-19	376.5	8068.9	0.0	0.0	376.5	0.0	376.5	26.2	383.3	28.7	0	126.1	0.0		0.0	1213.4	142.3	N
Dec-19	1408.1	9469.0	0.0	0.0	1408.1	0.0	1408.1	17.4	1425.5	13.9	0	0.0	0.0	2708.2	1406.5	3224.9	221.5	Y
Jan-20	321.4	31.4	190.7	190.7	0.0	0.0	190.7	3.3	194.0	29.4	0	0.0	0.0		137.1	3339.6	236.0	Y
Feb-20	375.0	956.4	287.5	287.5	0.0	0.0	287.5	13.7	306.2	43.4	0	0.0	0.0		1229.0	3647.3	276.4	Y
Mar-20	375.0	1331.4	71.2	71.2	431.4	43.1	460.1	69.9	329.9	77.3	0	0.0	0.0		2281.6	4100.0	232.3	Y
Apr-20	378.0	2109.4	0.0	0.0	378.0	37.2	320.2	16.1	356.3	142.6	0	790.0	0.0		1925.3	3743.7	263.5	Y
May-20	110.5	2219.9	0.0	0.0	110.5	11.0	99.4	2.0	101.4	146.2	99.3	775.0	0.0		1006.2	2824.6	133.9	N
Jun-20	6.2	2226.1	0.0	0.0	6.2	0.6	5.6	0.0	5.6	173.0	102	736.2	0.0		0.0	1213.4	142.3	N
Jul-20	71.6	2297.7	0.0	0.0	71.6	7.2	64.4	14.0	78.5	117.1	99	0.0	0.0		-137.6	1620.7	136.6	N
Aug-20	6.9	2304.6	0.0	0.0	6.9	0.7	6.2	1.3	7.4	92.3	27	0.0	0.0		-308.5	1702.9	123.5	N
Sep-20	0.1	2304.7	0.0	0.0	0.1	0.0	0.1	0.3	0.4	80.6	11	0.0	0.0		-400.6	1417.2	124.1	N
Oct-20	0.0	2304.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4	0	0.0	0.0		-490.0	1363.4	121.7	N
Nov-20	0.2	2304.9	0.0	0.0	0.2	0.0	0.2	1.5	1.7	26.4	0	0.0	0.0		-474.7	1343.7	120.4	N
Dec-20	6.9	2311.8	0.0	0.0	6.9	0.7	6.2	0.6	6.8	16.0	0	0.0	0.0	2261.2	-483.9	1334.5	120.0	N