



South Florida Water Management District

BIG CYPRESS BASIN BOARD AGENDA

This meeting is open to the public

May 16, 2013

8:00 AM

Big Cypress Basin Service Center
2660 N. Horseshoe Drive
Naples, FL 34104

FINAL

Pursuant to Section 373.079(7), Florida Statutes, all or part of this meeting may be conducted by means of communications media technology in order to permit maximum participation of Big Cypress Basin Board Members.

The Big Cypress Basin Board may take official action at this meeting on any item appearing on this agenda and on any item that is added to this agenda as a result of a change to the agenda approved by the presiding officer of the meeting pursuant to Section 120.525, Florida Statutes. The order of items appearing on the agenda is subject to change during the meeting and is at the discretion of the presiding officer. Public Comment will be taken after each presentation and before any Big Cypress Basin Board action(s).

1. Call to Order - Fredrick Barber, Chair, Big Cypress Basin Board
2. Pledge of Allegiance - Fredrick Barber, Chair, Big Cypress Basin Board
3. Approval of the Minutes for the February 21, 2013 Big Cypress Basin Regular Board Meeting
4. Agenda Revisions - Lisa Koehler, Administrator, Big Cypress Basin
5. Abstentions by Board Members from items on the Agenda

6. Discussion of Preliminary FY14 Budget - Doug Bergstrom, Division Director, Administrative Services
7. Discussion of Local Government Alternative Water Supply (AWS) and Stormwater Projects for FY14 Funding - Lisa Koehler, Administrator, Big Cypress Basin
8. Update on Big Cypress Basin Field Station - Jeff Kivett, Division Director, Operations, Engineering and Construction
9. General Public Comment
10. Field Station Activity Report - Chris Doherty, Superintendent Big Cypress Basin Field Station
11. Basin Administrator Report - Lisa Koehler, Administrator, Big Cypress Basin
12. Board Comment
13. Adjourn

STAFF ACTIVITY REPORT BIG CYPRESS BASIN FIELD OPERATIONS

May 16, 2013

OPERATIONS AND MAINTENANCE

A. Structure Maintenance

- Normal repairs and maintenance at structures are ongoing as required. 18 repairs have been performed.
- Security camera at GG 3 is in progress.
- Performed 16 structural/electrical inspections at water control structures and 30 quarterly structure inspections as per work schedule.
- Completed 4 annual electrical structure PM's with Engineering Department. This work is continuing as schedule allows.

B. Canal Maintenance

- Borrowed a tow boat from Fort Lauderdale Field Station for mechanical removal in the Faka Union, and Miller canals south of I-75 – ongoing.
- The Aquamogs performed slope mowing in I75 canal between I75-1 & 3 and are currently slope mowing in the Golden Gate Canal between GG 1 & 2 and GG 3 & 4.
- Loaned the Conver boat and an operator to the Miami Field Station to assist them in one of their canals (C-100B).
- Conver boat removed aquatic vegetation in Golden Gate, Corkscrew and Orange Tree canals and is currently removing aquatic vegetation in Faka Union canal between FU 4 & 5.
- Continuing flat and slope mowing cycle on structures and canal side slopes with the Gradall, Cat and John Deere tractor.

C. Fleet

- Replaced 25 yr old aquamog in poor condition with a newer model that was underutilized by another field station.
- 25 major repairs to BCB vehicles made in house.
- Performed 15 scheduled PM's on BCB vehicles in house.

D. Vegetation Management

Aggressive chemical treatment by our contractor and in house crews continues with very positive results.

- Contractor – Submersed Treatment – 530 acres
- Contractor – Emerged Treatment – 56 acres
- In-House – Terrestrial Treatment – 14 acres

E. Personnel

- One new hire recently started work @ the FS; a Pump Station Diesel Engine Operator. We are posting for a Chief Operator.

Prepared by: Christopher Doherty, BCBFS Superintendent

FY13 Big Cypress Basin Budget Expenditure Report

Week 31

8-May-13

QTR 3

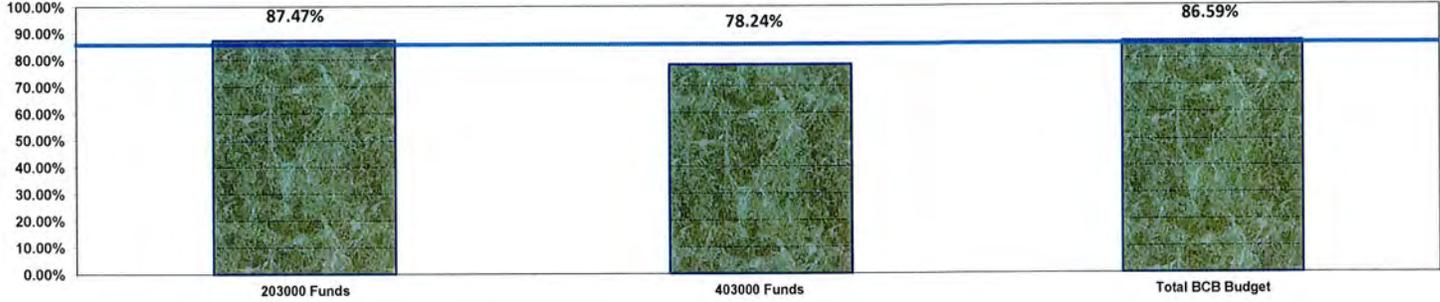
1.11.a

Fund Type	Consumable Budget	Expenditures	Encumbrance	Pre-Encumbrance	Funds Reservations	Funds Block	Available Budget	Encumb Rate	Burn Rate	Forward
203000 Funds	\$7,505,926	\$2,278,112	\$4,287,392	\$0	\$19,057	\$225,000	\$696,365	87.47%	30.35%	\$306,402
403000 Funds	\$787,522	\$221,677	\$394,491	\$0	\$0	\$0	\$171,354	78.24%	28.15%	\$437,124
Total BCB Budget	\$8,293,448	\$2,499,789	\$4,681,883	\$0	\$19,057	\$225,000	\$867,719	86.59%	30.14%	\$743,526

1-Oct-12 8-May-13 Year Burn: 59.84%

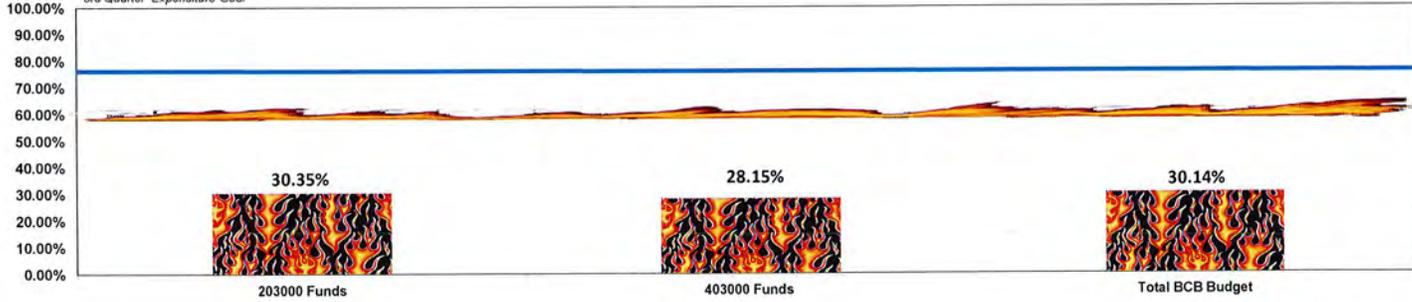
FY13 Big Cypress Basin Commitment Rate w/o Reserves

3rd Quarter Encumbrance Goal

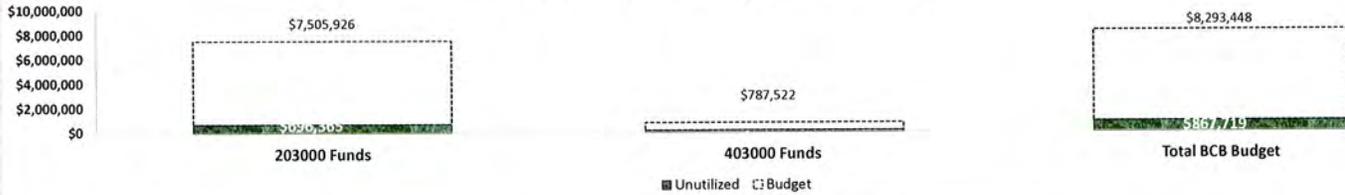


FY13 Big Cypress Basin Expenditure Rate w/o Reserves

3rd Quarter Expenditure Goal



FY13 Current Unutilized Big Cypress Basin Budget



Attachment: Item 11_Financial Reports (1266 : Basin Administrator Report)

8-May-13 QTR 3

Big Cypress Basin Fund Type 203000 - FY13

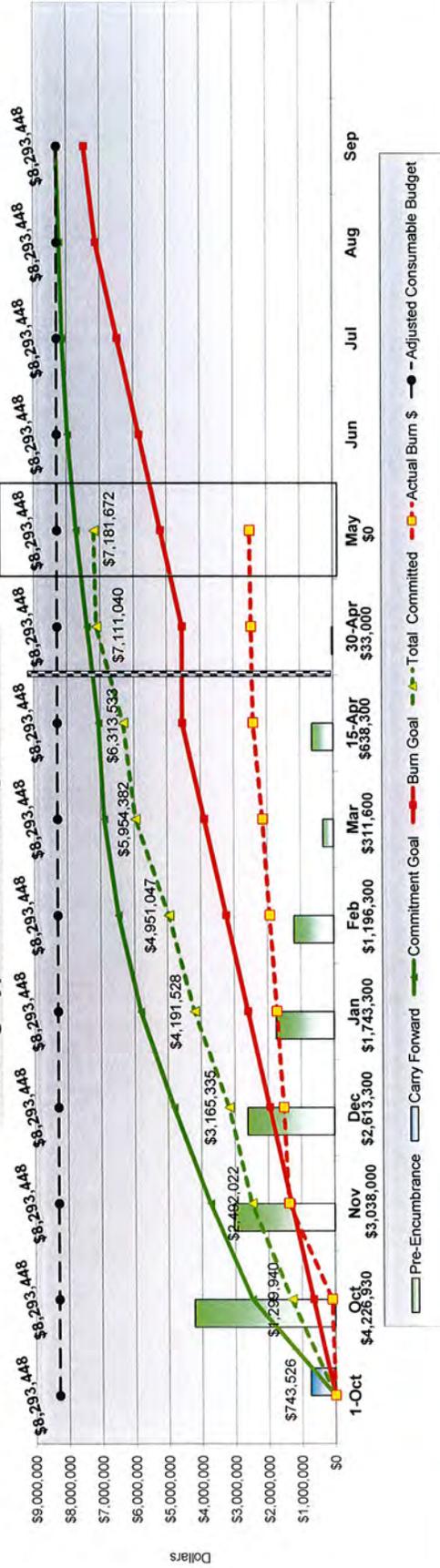
Fund Center Description	Consumable Budget	Expenditures	Encumbrance	Pre-Encumbrance	Funds Reservations	Funds Block	Available Budget	Burn Rate	Encumb Rate	FY12 Carry Forward
• 2111109270 Gen Svcs - BCB Svc	69,546	15,528	20,589				33,429	22.33%	51.93%	\$26,126
• 3210136000 Hydro/Env Sy Mod S	36,556	6,556	30,000				7,650	17.93%	100.00%	\$11,556
• 3310139000 Ofc Ever Policy&Co	66,680	21,030	38,000					31.54%	88.53%	\$21,030
• 3411143000 DO NOT USE	96		96					0.00%	100.00%	\$96
• 3510142700 Surveying/Map Sec	30,219	194	30,010				15	0.64%	99.95%	\$18
• 4411161000 Coastal Ecosyste S	90,000	20,000	70,000					22.22%	190.00%	
• 4511167200 Chemistry Lab Unit	4,860	4,546					314	93.54%	#DIV/0!	
• 4511167300 Data Validation Un								#DIV/0!	#DIV/0!	
• 4513169400 Monitoring Dev & I	80,000	40,000	40,000					50.00%	100.00%	
• 4513169600 Monitoring Dev & I	76,035	49,721	26,314					65.39%	100.00%	\$5,634
• 5010170400 Fleet Mgmt Unit	200						200	0.00%	0.00%	
• 5310175000 Field Ops Sou Bure	1,235,383	588,118	112,483		19,057		535,724	45.99%	55.09%	\$15,308
• 5313301000 BCB Field Station	269,833	203,455	66,378					75.40%	100.00%	\$96,342
• 5415182000 Vegetation Mgmt Se	159,000	41,026	115,245				2,729	25.80%	98.28%	
• 5415182100 Land Management Se	6,000		5,950				50	0.00%	99.17%	
• 5415182200 Right of Way Secti			202				202			
• 5511184500 Scada Design/Install	213,954	64,633	61,675				87,646	30.21%	59.04%	\$10,293
• 5511184600 Scada Maintenance	336						336	0.00%	0.00%	
• 5512200000 Streamgauging	6,090	1,361					4,729	22.35%	22.35%	
• 5611187000 Infrastruct Mgmt S	225,000	44,522	101,699			225,000				
• 5613220000 Eng & Constr Burea	160,829	1,197,423	3,568,750				14,608	27.68%	90.92%	
• 5613222000 Engineer-Constr Se	4,775,310						9,137	25.08%	99.81%	\$120,000
• 6180238000 BCB Service Center										
• 6510243000 Project Mgmt Unit										
Total: Big Cypress Basin Fund 203000	7,505,926	2,278,112	4,287,392	0	19,057	225,000	696,365	30.35%	87.47%	\$306,403

8-May-13 QTR 3

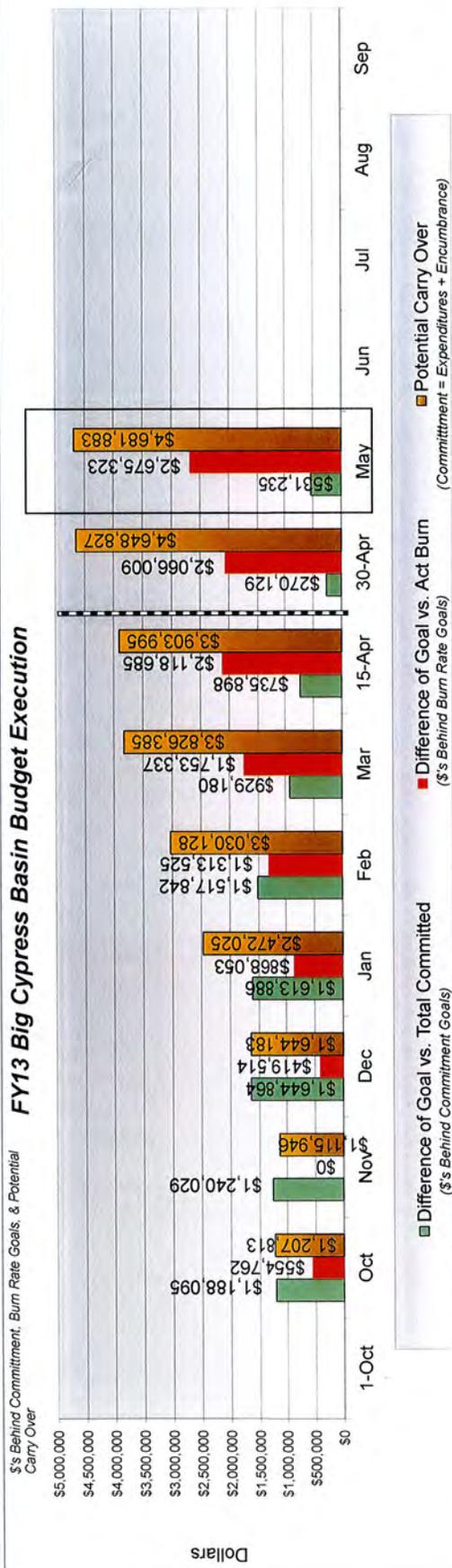
Big Cypress Basin Fund Type 403000 - FY13

Fund Center Description	Consumable Budget	Expenditures	Encumbrance	Pre-Encumbrance	Funds Reservations	Funds Block	Available Budget	Burn Rate	Encumb Rate	FY12 Carry Forward
• 3310139000 Ofc Ever Policy&Co	53,150	16,667	36,333				150	31.36%	99.72%	\$244,631
• 3510144000 Real Estate	244,631		244,631					0.00%	100.00%	
• 4511167300 Data Validation Unit	29,000		29,000							
• 5010170400 Fleet Mgmt Unit	145,507	145,507					29,800	100.00%	100.00%	\$145,507
• 5313301000 BCB Field Station	55,743		25,943					77.86%	100.00%	\$46,986
• 5611187000 Infrastruct Mgmt S	46,986	36,582	10,404				141,404	10.79%	33.46%	
• 5613220000 Eng & Constr Burea	212,505	22,921	48,180				171,354	28.15%	78.24%	\$437,124
• 5613222000 Engineer-Constr Se			394,491							
Total: Big Cypress Basin Fund 403000	787,522	221,677	394,491							

FY13 Big Cypress Basin Budget Execution

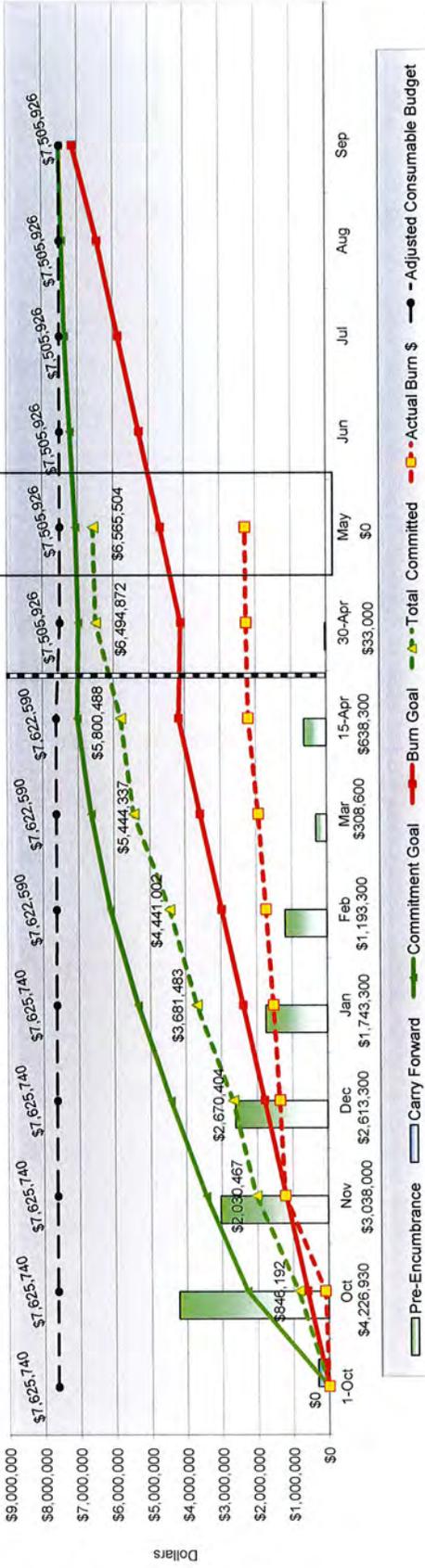


FY13 Big Cypress Basin Budget Execution



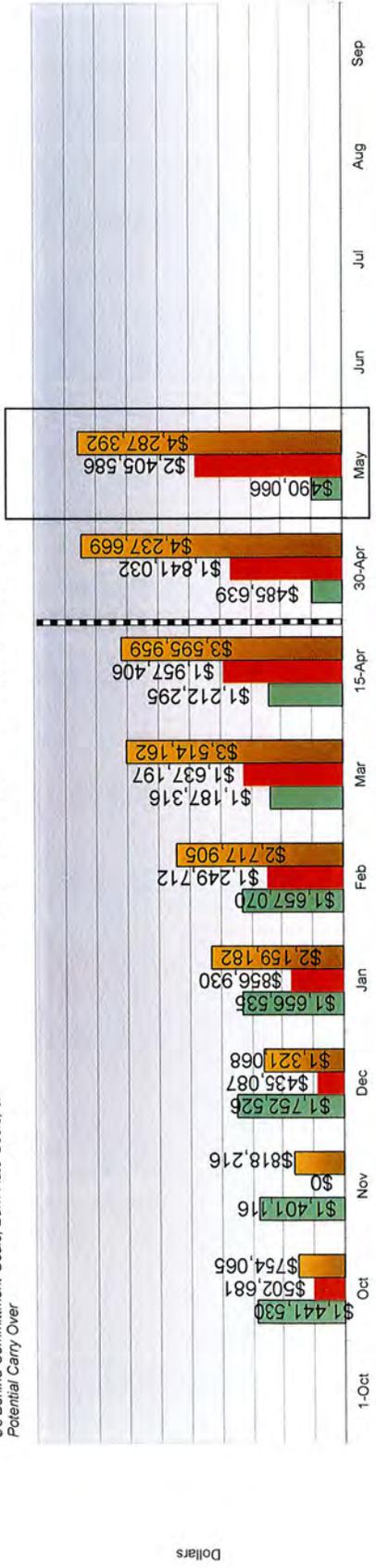
Month	Adjusted Consumable Budget	Percent Goal Committed	Percent Goal Burn	Actual Committed	Actual Burn	Actual Burn %	Commitment Goal	Burn Goal	Difference of Goal vs. Act Burn (\$ Behind Burn Rate Goals)	Actual Committed	Actual Burn	Difference of Goal vs. Act Burn	Potential Carry Over
1-Oct	\$8,293,448	0.00	0.00	\$0	\$0	0.00%	\$0	\$0	\$0	\$0	\$0	\$0	\$1,207,813
Oct	\$8,293,448	30.00	7.80	\$2,488,034	\$646,889	1.11%	\$2,488,034	\$646,889	\$0	\$1,207,813	\$92,127	\$554,782	\$1,207,813
Nov	\$8,293,448	45.00	15.60	\$3,732,052	\$1,115,946	16.59%	\$3,732,052	\$1,115,946	\$0	\$1,207,813	\$1,376,076	\$0	\$1,115,946
Dec	\$8,293,448	58.00	23.40	\$4,810,200	\$1,940,667	18.34%	\$4,810,200	\$1,940,667	\$0	\$1,207,813	\$1,521,152	\$866,053	\$1,644,183
Jan	\$8,293,448	70.00	31.20	\$5,605,414	\$2,597,556	20.73%	\$5,605,414	\$2,597,556	\$0	\$1,207,813	\$1,719,503	\$1,878,642	\$2,472,025
Feb	\$8,293,448	78.00	39.00	\$6,468,889	\$3,234,445	23.16%	\$6,468,889	\$3,234,445	\$0	\$1,207,813	\$1,920,919	\$1,313,525	\$3,030,128
Mar	\$8,293,448	83.00	46.80	\$6,883,562	\$3,881,334	25.66%	\$6,883,562	\$3,881,334	\$0	\$1,207,813	\$2,127,997	\$1,753,337	\$3,826,385
15-Apr	\$8,293,448	85.00	47.07%	\$7,049,415	\$4,048,223	29.05%	\$7,049,415	\$4,048,223	\$0	\$1,207,813	\$2,408,538	\$2,118,685	\$3,903,995
30-Apr	\$8,293,448	89.00	54.60	\$7,381,169	\$5,175,112	29.69%	\$7,381,169	\$5,175,112	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827
May	\$8,293,448	93.00	62.40	\$7,712,907	\$5,175,112	30.14%	\$7,712,907	\$5,175,112	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827
Jun	\$8,293,448	96.00	70.20	\$7,961,710	\$5,822,000	30.14%	\$7,961,710	\$5,822,000	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827
Jul	\$8,293,448	98.00	78.00	\$8,127,579	\$6,468,889	30.14%	\$8,127,579	\$6,468,889	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827
Aug	\$8,293,448	99.00	85.80	\$8,210,513	\$7,115,778	30.14%	\$8,210,513	\$7,115,778	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827
Sep	\$8,293,448	99.00	85.80	\$8,210,513	\$7,115,778	30.14%	\$8,210,513	\$7,115,778	\$0	\$1,207,813	\$2,462,213	\$2,066,009	\$4,648,827

BCB 203000 - FY13 Budget Execution



BCB 203000 - FY13 Budget Execution

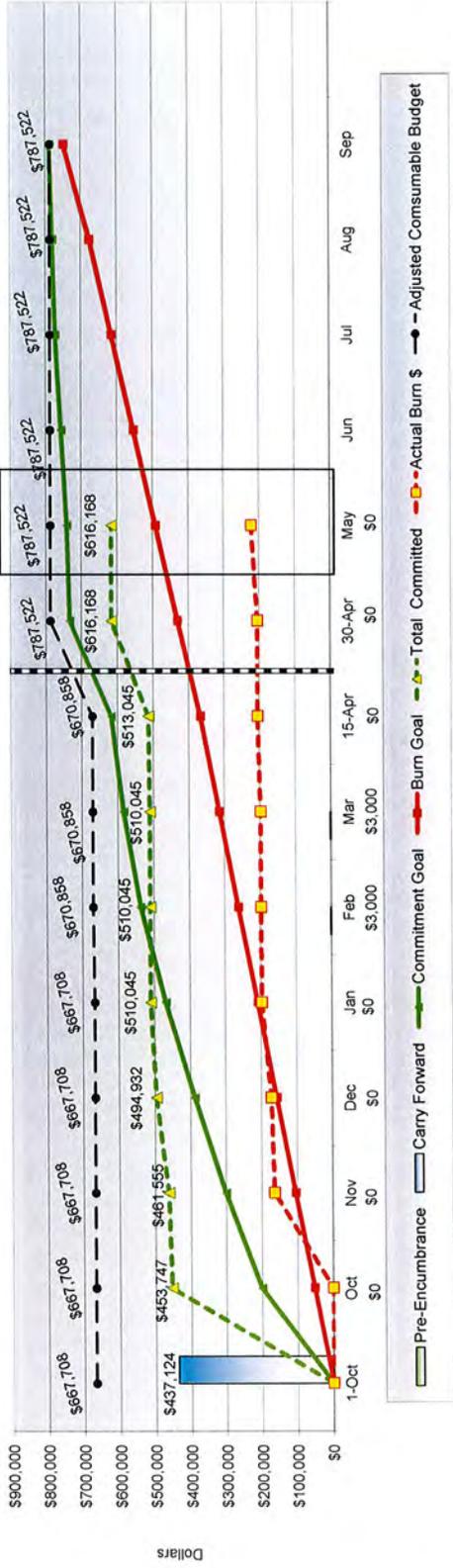
\$'s Behind Commitment Goals, Burn Rate Goals, & Potential Carry Over



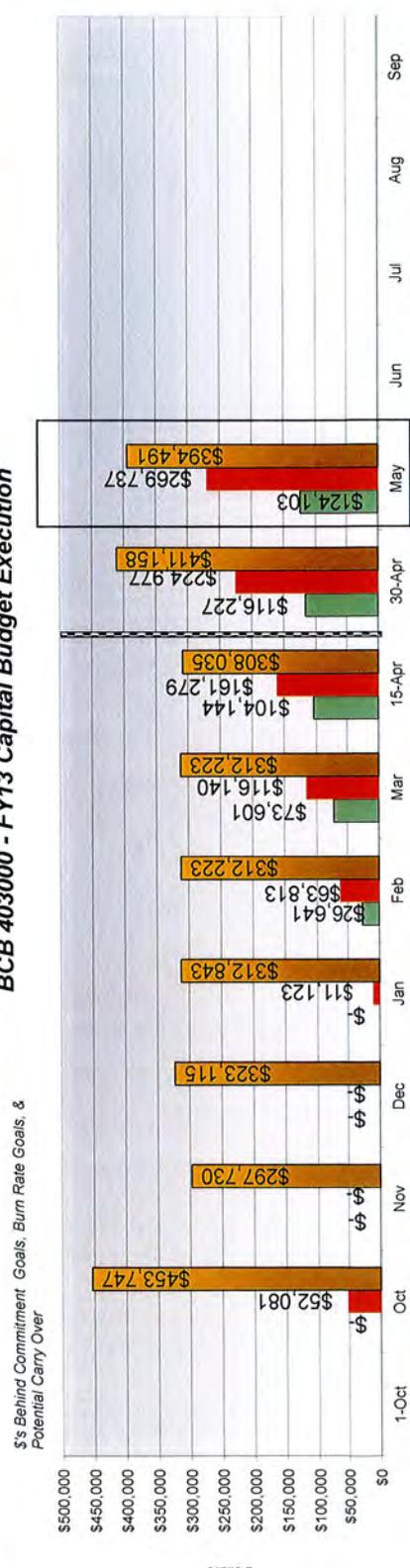
Difference of Goal vs. Total Commitment (\$'s Behind Commitment Goals)
 Difference of Goal vs. Act Burn (\$'s Behind Burn Rate Goals)
 Potential Carry Over (Commitment = Expenditures + Encumbrances)

Month	Adjusted Consumable Budget	Percent Goal Committed	Percent Goal Burn	Actual Committed	Actual Burn %	Commitment Goal	Burn Goal	Actual Committed	Actual Burn \$	Difference of Goal vs. Total Commitment	Difference of Goal vs. Act Burn	Potential Carry Over
1-Oct	\$7,625,740	0.00	0.00	\$0		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Oct	\$7,625,740	30.00	7.80	\$1,657,070	1.21%	\$2,287,722	\$594,808	\$754,065	\$92,127	\$1,441,530	\$502,681	\$754,065
Nov	\$7,625,740	45.00	15.60	\$3,431,583	17.90%	\$3,431,583	\$1,189,615	\$818,216	\$1,212,215	\$1,401,116	\$435,087	\$818,216
Dec	\$7,625,740	58.00	23.40	\$4,422,929	17.69%	\$4,422,929	\$1,784,423	\$1,321,068	\$1,349,336	\$1,752,526	\$856,930	\$1,321,068
Jan	\$7,625,740	70.00	31.20	\$5,338,018	19.96%	\$5,338,018	\$2,375,231	\$2,159,182	\$1,522,301	\$1,656,535	\$856,930	\$2,159,182
Feb	\$7,625,740	80.00	39.00	\$6,098,072	22.61%	\$6,098,072	\$2,972,610	\$2,717,905	\$1,723,098	\$1,657,070	\$1,248,712	\$2,717,905
Mar	\$7,625,740	87.00	46.80	\$6,631,654	25.32%	\$6,631,654	\$3,567,372	\$3,514,162	\$1,930,175	\$1,187,316	\$1,637,197	\$3,514,162
Apr	\$7,625,740	92.00	54.60	\$7,012,783	28.92%	\$7,012,783	\$4,161,934	\$3,595,959	\$2,204,528	\$1,212,295	\$1,957,406	\$3,595,959
May	\$7,505,926	93.00	54.60	\$6,980,511	30.07%	\$6,980,511	\$4,098,236	\$4,237,669	\$2,257,204	\$485,639	\$1,841,032	\$4,237,669
Jun	\$7,505,926	94.00	62.40	\$7,055,571	30.35%	\$7,055,571	\$4,683,698	\$4,287,392	\$2,278,112	\$490,066	\$2,405,586	\$4,287,392
Jul	\$7,505,926	96.00	70.20	\$7,355,808		\$7,355,808	\$5,654,622					
Aug	\$7,505,926	98.00	78.00	\$7,430,887		\$7,430,887	\$6,440,085					
Sep	\$7,505,926	100.00	85.80									

BCB 403000 - FY13 Capital Budget Execution



BCB 403000 - FY13 Capital Budget Execution



Month	Difference of Goal vs. Total Committed (\$'s Behind Commitment Goals)		Difference of Goal vs. Act Burn (\$'s Behind Burn Rate Goals)		Potential Carry Over (Commitment = Expenditures + Encumbrance)	
	Adjusted Consumable Budget	Percent Goal Committed	Actual Committed	Percent Goal Burn	Actual Committed	Potential Carry Over
1-Oct	\$667,708	0.00	\$0	0.00	\$0	\$0
Oct	\$667,708	7.80	\$52,081	7.80	\$52,081	\$453,747
Nov	\$667,708	15.60	\$297,730	15.60	\$297,730	\$297,730
Dec	\$667,708	23.40	\$467,395	23.40	\$467,395	\$323,115
Jan	\$667,708	31.20	\$536,696	31.20	\$536,696	\$312,843
Feb	\$667,708	39.00	\$583,646	39.00	\$583,646	\$312,223
Mar	\$667,708	46.80	\$617,189	46.80	\$617,189	\$312,223
15-Apr	\$670,858	54.60	\$732,395	54.60	\$732,395	\$312,223
30-Apr	\$787,522	62.40	\$740,270	62.40	\$740,270	\$312,223
May	\$787,522	70.20	\$756,021	70.20	\$756,021	\$312,223
Jun	\$787,522	78.00	\$771,771	78.00	\$771,771	\$312,223
Jul	\$787,522	85.80	\$779,646	85.80	\$779,646	\$312,223
Aug	\$787,522	93.60	\$787,522	93.60	\$787,522	\$312,223
Sep	\$787,522	100.00	\$787,522	95.00	\$787,522	\$312,223

SUMMARY OF HYDROLOGIC CONDITIONS IN BIG CYPRESS BASIN

APRIL, 2013

SUMMARY

Wetter than normal hydrologic conditions prevailed across southwest Florida, thanks to a series of unexpectedly welcomed April showers. Surface and groundwater levels, however, continued their declining trend of the annual dry season. All of the water control structures were operated on the dry season schedules. Pumping operation in none of the Basin's pumpstations was activated.

RAINFALL

A continuous series of cold fronts kept intruding deep into south Florida throughout April. Rainfall associated with the fronts helped produce the second wettest April since 1997. Amount of total rainfall ranged from 2.68 inches in Golden Gate to 6.81 inches in Bonita Springs. The weighted average total rainfall for the month was 4.04 inches, or 72 percent above normal for April. Year to date rainfall is approximately 11 percent below normal. A summary of rainfall at 14 stations across the Basin is illustrated in Table 1 and Figure 1.

STREAMFLOWS AND GROUNDWATER LEVELS

Surface and groundwater levels in the canals, streams and regional aquifers continued to retreat along the downward trend of south Florida dry season. All of the water control structures were operated on the dry season schedules. None of the three recharge pumps was activated. A summary of the surface water stage hydrographs at selected locations is illustrated in Figures 2, 3 and 4.

The regional groundwater levels in the surficial water table aquifer recorded an average decline of 0.11 feet and the Lower Tamiami aquifer wells

recorded an average drop of 0.55 feet from the previous month. Hydrographs of selected key indicator wells are illustrated in Figure 5.

WATER USE

The average daily raw water pumpage data from the major public water utilities in the Basin during April were not available at the time of preparation of this report:

Average Daily Raw Water Pumped (MGD)

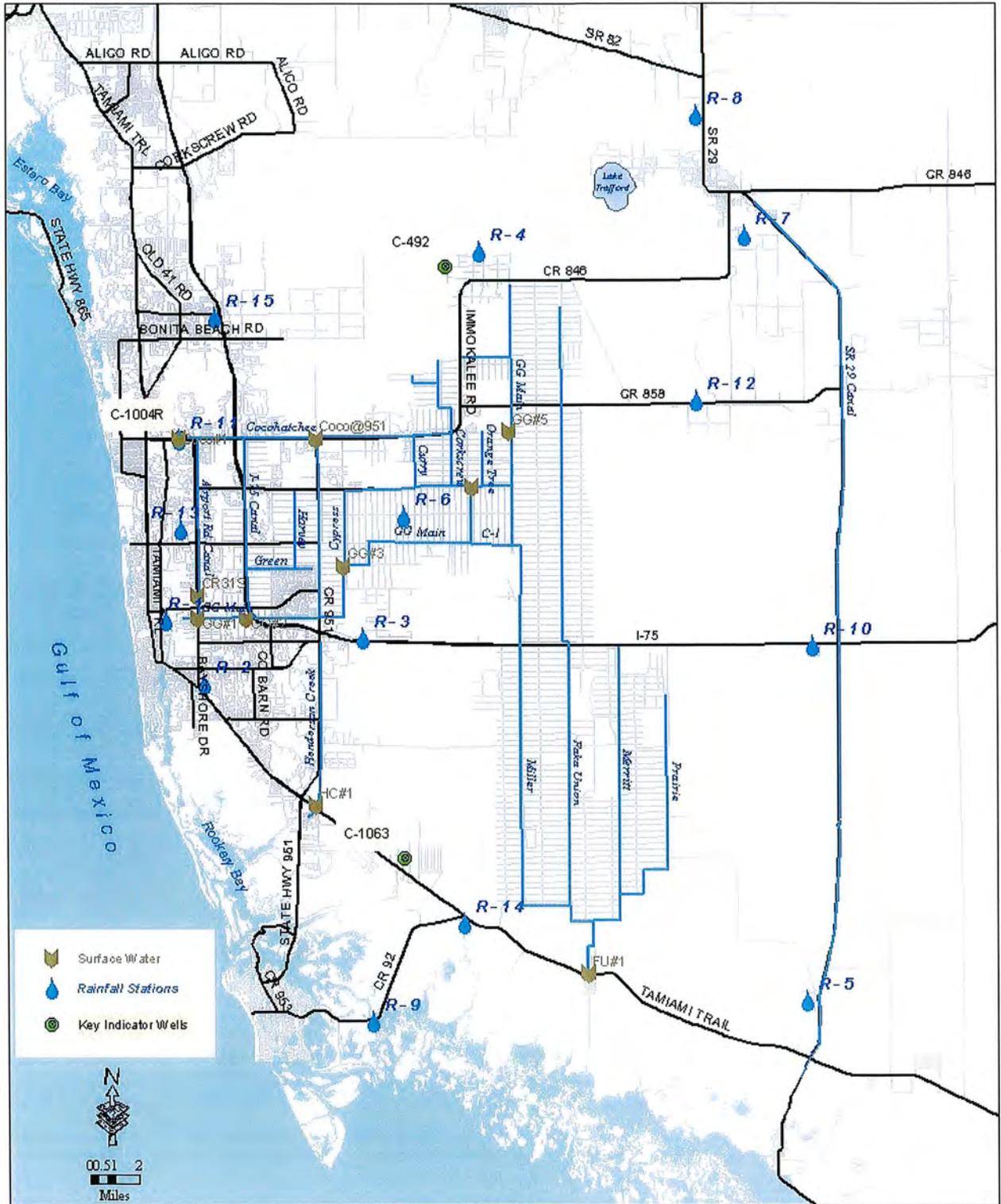
Utility	April 2013	April 2012
1. City of Naples Water Utility	NA	
2. Collier County Utilities	NA	
3. Marco Island Water Utility*	NA	
4. Immokalee Water & Sewer District	NA	

*Raw water to the lime softening plant only

Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Hydrologic Report Station Map



MAP 1

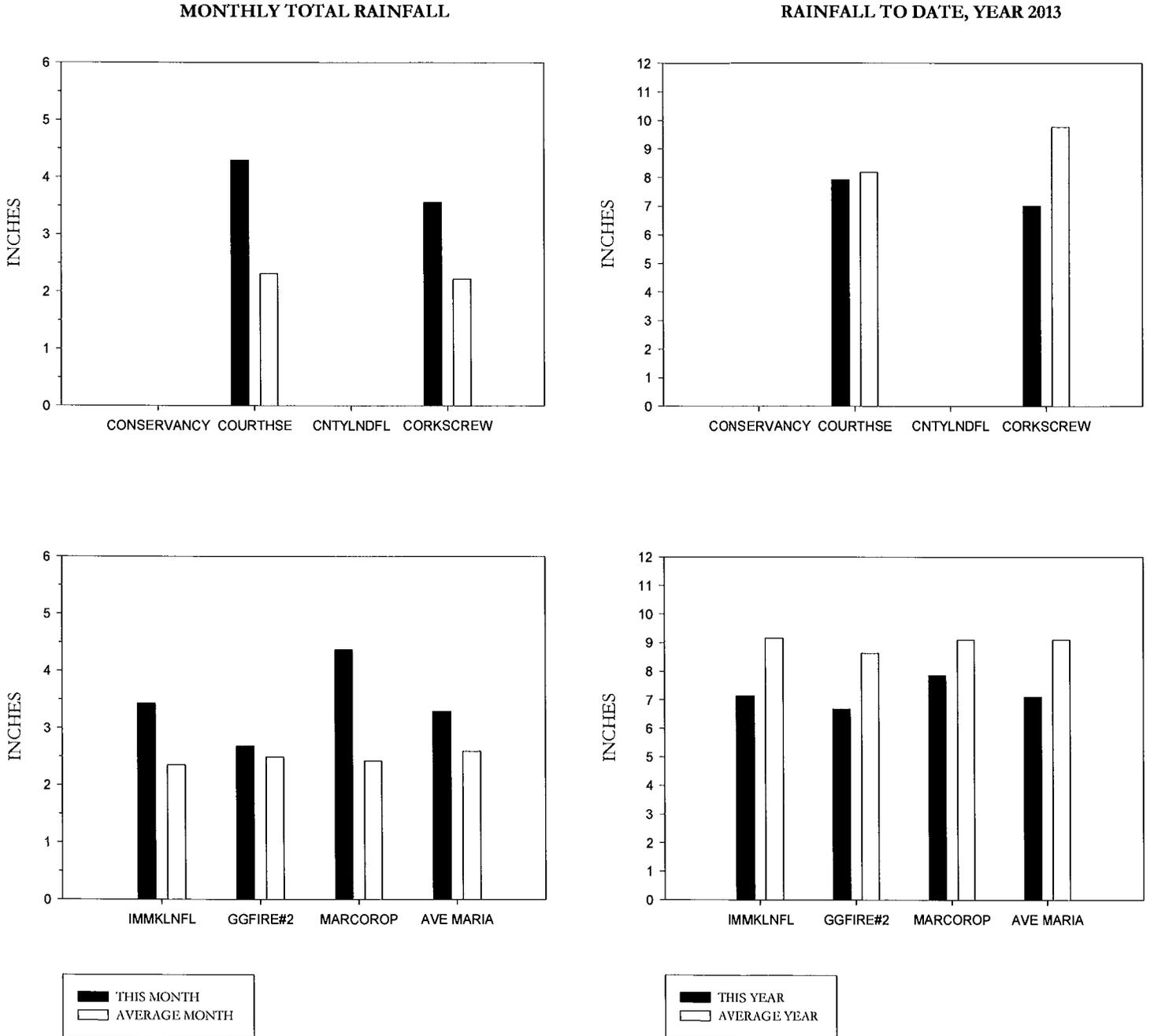
Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

TABLE 1
RAINFALL REPORT - APRIL 2013
DISTRICT/BASIN RAINFALL STATIONS
 (ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	CURRENT MONTH 2013	LONG TERM AVERAGE FOR THIS MONTH	MONTHLY DIFFERENCE	CALENDAR YEAR 2013 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	YEAR TO DATE DIFFERENCE	LONG TERM YEARLY AVERAGE
R-1	CONSERVANCY	Site off line	Gauge relocation					
R-2	COLLIER COUNTY COURTHOUSE	4.29	2.31	1.98	7.92	8.19	-0.27	51.65
R-3	COLLIER COUNTY LANDFILL							62.03
R-4	CORKSCREW SWAMP	3.56	2.22	1.34	7.01	9.77	-2.76	58.79
R-5	FAKAHATCHEE STRAND STATE PRESERVE	3.34	2.29	1.05	7.16	8.49	-1.33	61.22
R-6	GOLDEN GATE FIRE STATION #2	2.68	2.49	0.19	6.86	8.63	-1.77	58.33
R-7	IMMOKALEE LANDFILL	3.43	2.35	1.08	7.14	9.16	-2.02	51.98
R-8	IFAS	3.13	2.29	0.84	8.12	9.22	-1.10	50.04
R-9	MARCO ISLAND R.O. PLANT	4.37	2.42	1.95	7.85	9.10	-1.25	53.92
R-10	FAKAHATCHEE NORTH END	7.40	2.79	4.61	11.38	10.04	1.34	61.09
R-11	COCOHATCHEE STRUCTURE #1	2.93	1.87	1.06	7.23	7.70	-0.47	47.76
R-12	AVE MARIA	3.29	2.59	0.70	7.11	9.10	-1.99	54.55
R-13	BCB FIELD STATION	3.50	2.38	1.12	6.83	8.44	-1.61	54.63
R-14	COLLIER/SEMINOLE STATE PARK	3.85	2.50	1.35	7.40	8.10	-0.70	55.25
R-15	BONITA SPRINGS WATER PLANT	6.81	2.01	4.80	9.53	8.60	0.93	53.03
Averages		4.04	2.35	1.70	7.81	8.81	-1.00	55.31

MONTHLY AND YEAR-TO-DATE RAINFALL AT SELECTED LOCATIONS

APRIL 2013

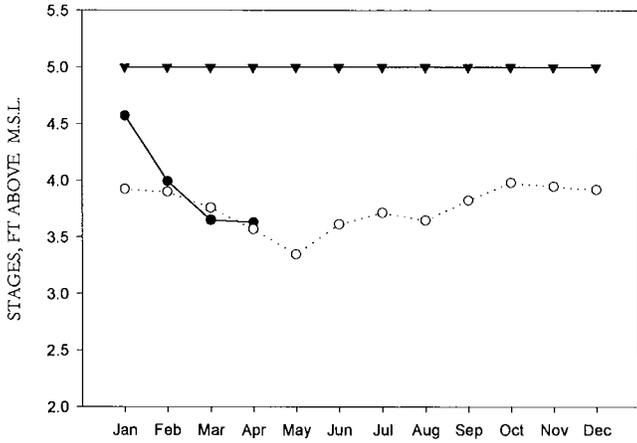


Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

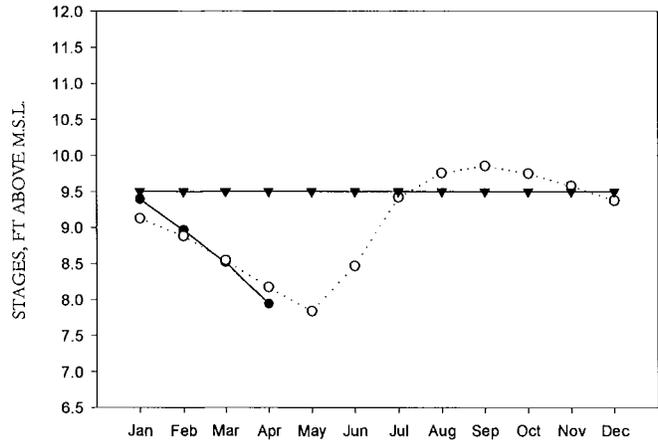
FIGURE 1

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

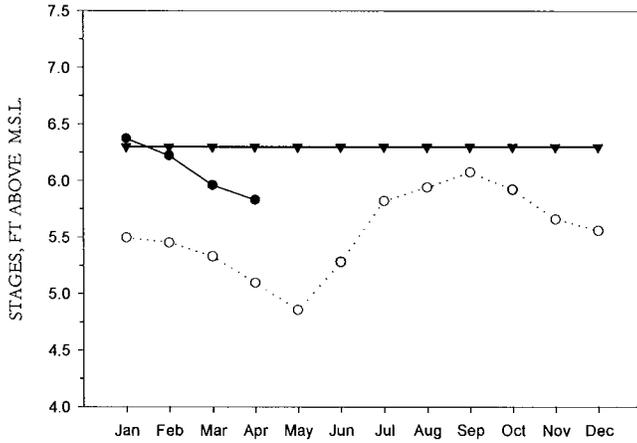
GOLDEN GATE CANAL AT WEIR 1



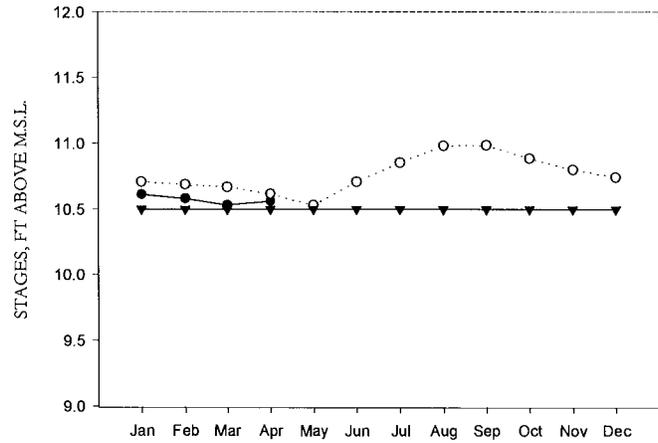
GOLDEN GATE CANAL AT WEIR 4



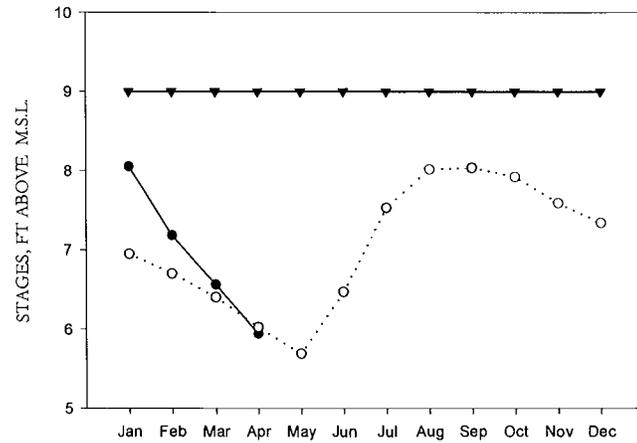
GOLDEN GATE CANAL AT WEIR 2



GOLDEN GATE CANAL AT WEIR 5



GOLDEN GATE CANAL AT WEIR 3



AIRPORT ROAD CANAL AT CR 31 SOUTH

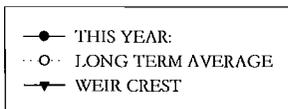
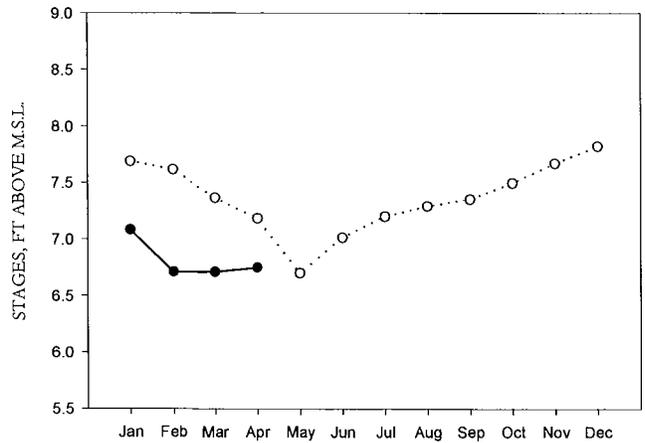


FIGURE 2

Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

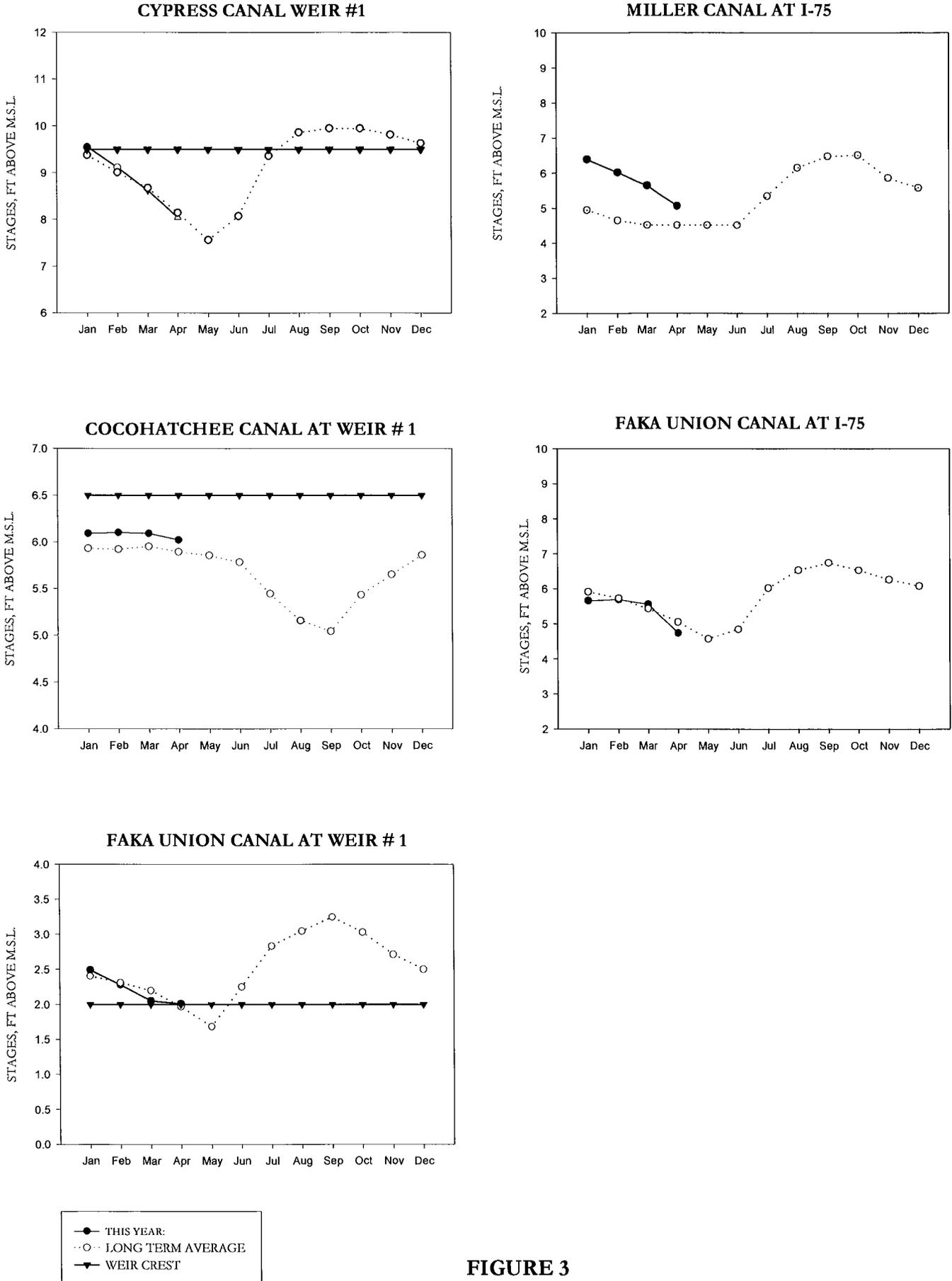
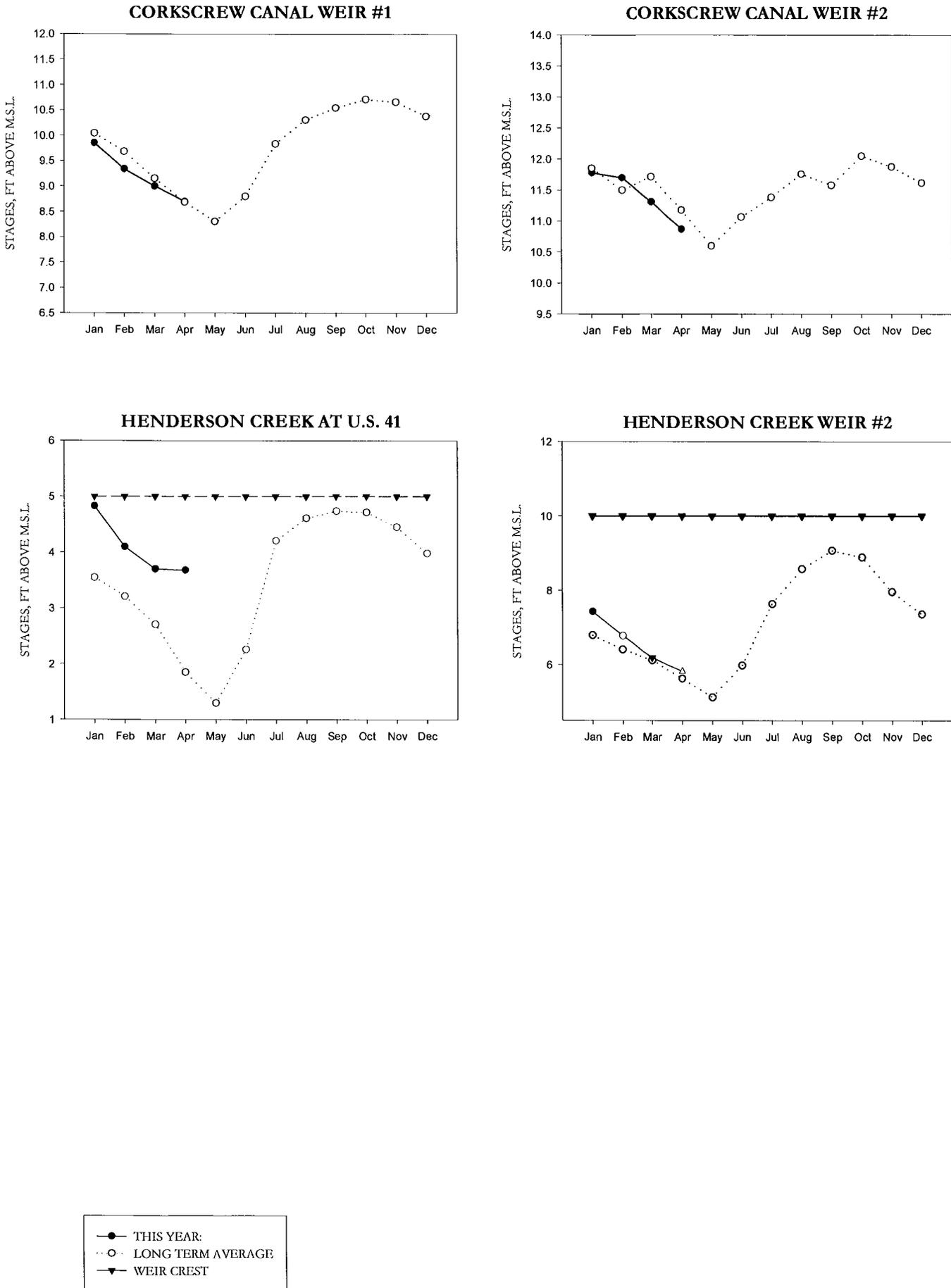


FIGURE 3

Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

1.11.b

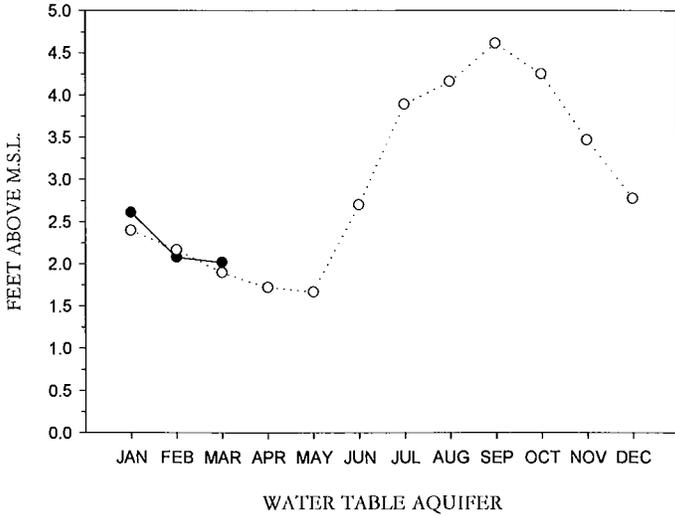


Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

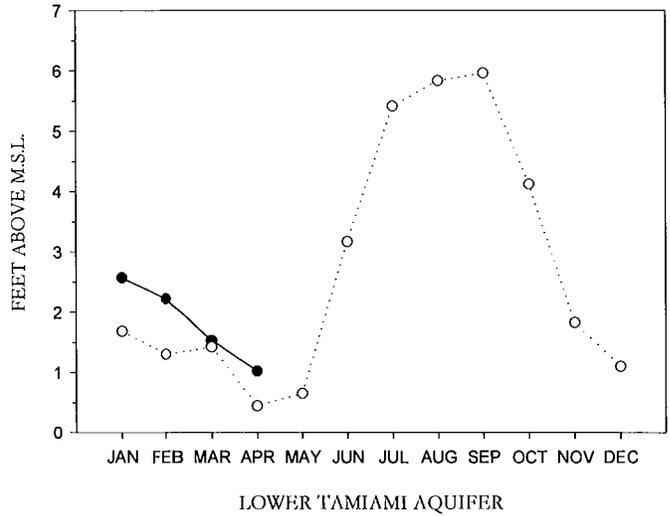
FIGURE 4

GROUNDWATER LEVELS AT SELECTED LOCATIONS 2013

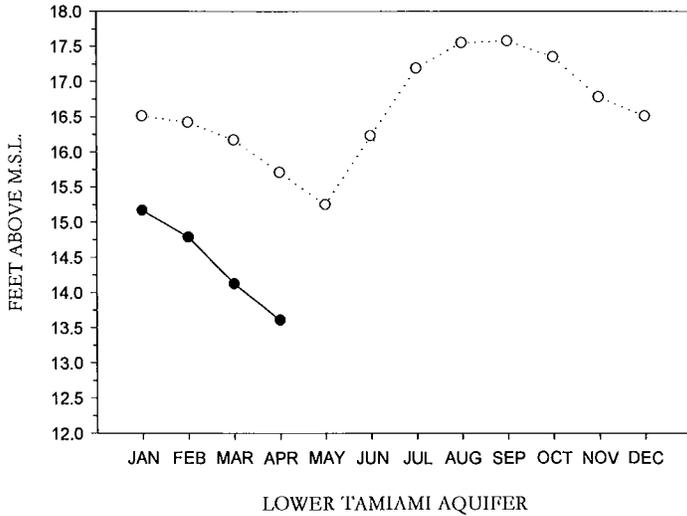
GROUND WATER LEVELS AT WELL C-1063
NEAR SIX Ls FARM ON US 41 EAST



GROUND WATER LEVELS AT WELL C-1004r
PALM RIVER BOULEVARD, NORTH NAPLES



GROUND WATER LEVELS AT C-492
CORKSCREW SWAMP SANCTUARY



—●— 2013
- - -○- - - Historical

FIGURE 5

Attachment: Item 11_BCB HYDRO RPT APR 2013 (1266 : Basin Administrator Report)

SUMMARY OF HYDROLOGIC CONDITIONS IN BIG CYPRESS BASIN

MARCH, 2013

SUMMARY

Hydrologic conditions in March were significantly below normal with continued decline of surface and groundwater levels across the basin. All of the water control structures were operated on the dry season schedules. Pumping operation in none of the Basin's pumpstations was activated.

RAINFALL

Two mild cold fronts intruded deep into south Florida during the second and the fourth week in March. Rainfall associated with the fronts, however, varied spatially from 0.48 inches in Marco Island to 2.44 inches in North Immokalee. The weighted average total rainfall for the month was 0.97 inches, or 61 percent below normal for March. Year to date rainfall is approximately 45 percent below normal. A summary of rainfall at 14 stations across the Basin is illustrated in Table 1 and Figure 1.

STREAMFLOWS AND GROUNDWATER LEVELS

Surface and groundwater levels in the canals, streams and regional aquifers continued to retreat along the downward trend of south Florida dry season. All of the water control structures were operated on the dry season schedules. None of the three recharge pumps was activated. A summary of the surface water stage hydrographs at selected locations is illustrated in Figures 2, 3 and 4.

The regional groundwater levels in the surficial water table aquifer recorded an average decline of 0.24 feet and the Lower Tamiami aquifer wells recorded an average drop of 0.76 feet from the previous month. Hydrographs of selected key indicator wells are illustrated in Figure 5.

WATER USE

The average daily raw water pumpage by the major public water utilities in the Basin during March are as follows:

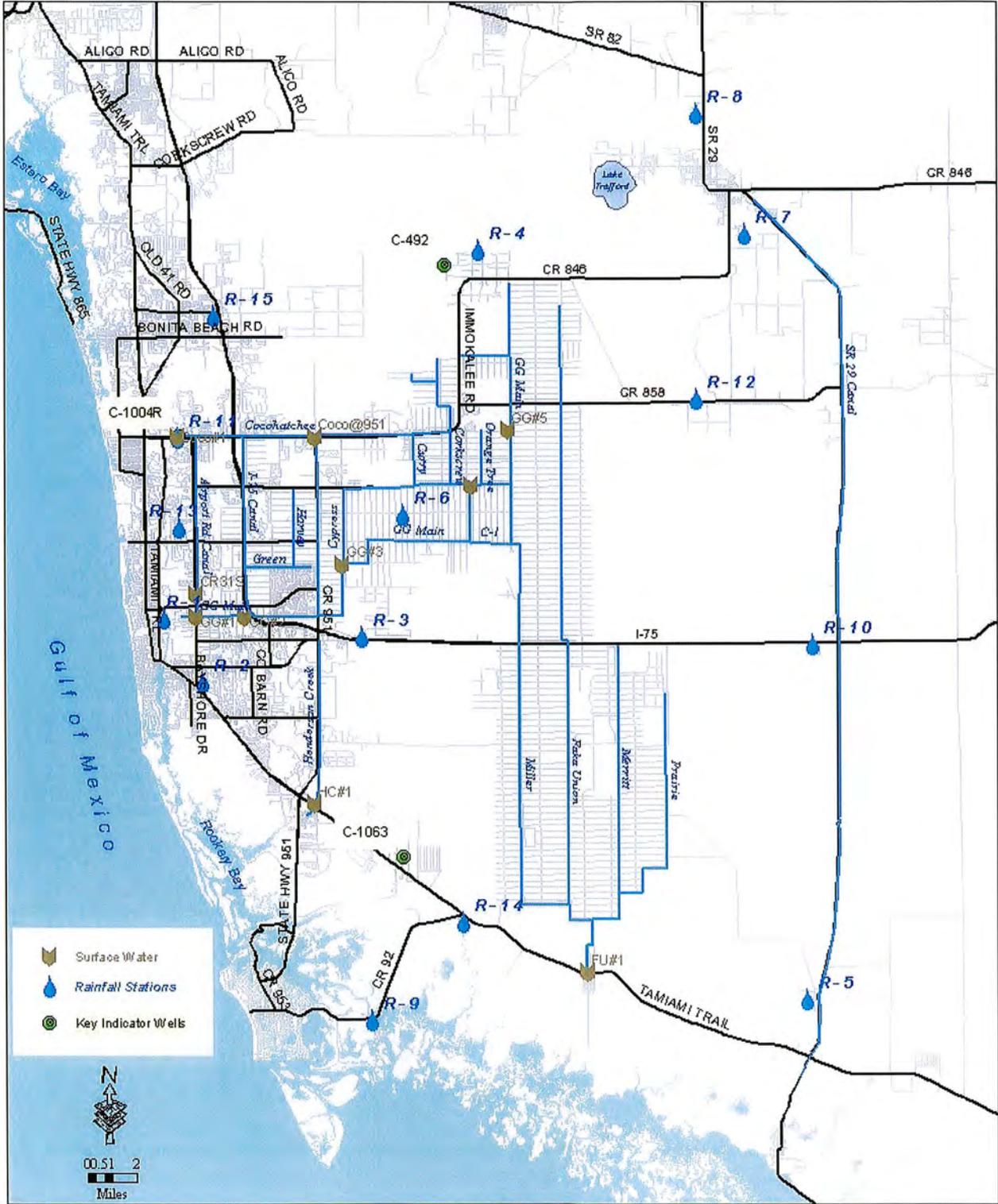
Average Daily Raw Water Pumped (MGD)

Utility	March 2013	March 2012
1. City of Naples Water Utility	NA	15.06
2. Collier County Utilities	32.14	31.05
3. Marco Island Water Utility*	5.50	5.68
4. Immokalee Water & Sewer District	2.11	2.62

*Raw water to the lime softening plant only

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Hydrologic Report Station Map



MAP 1

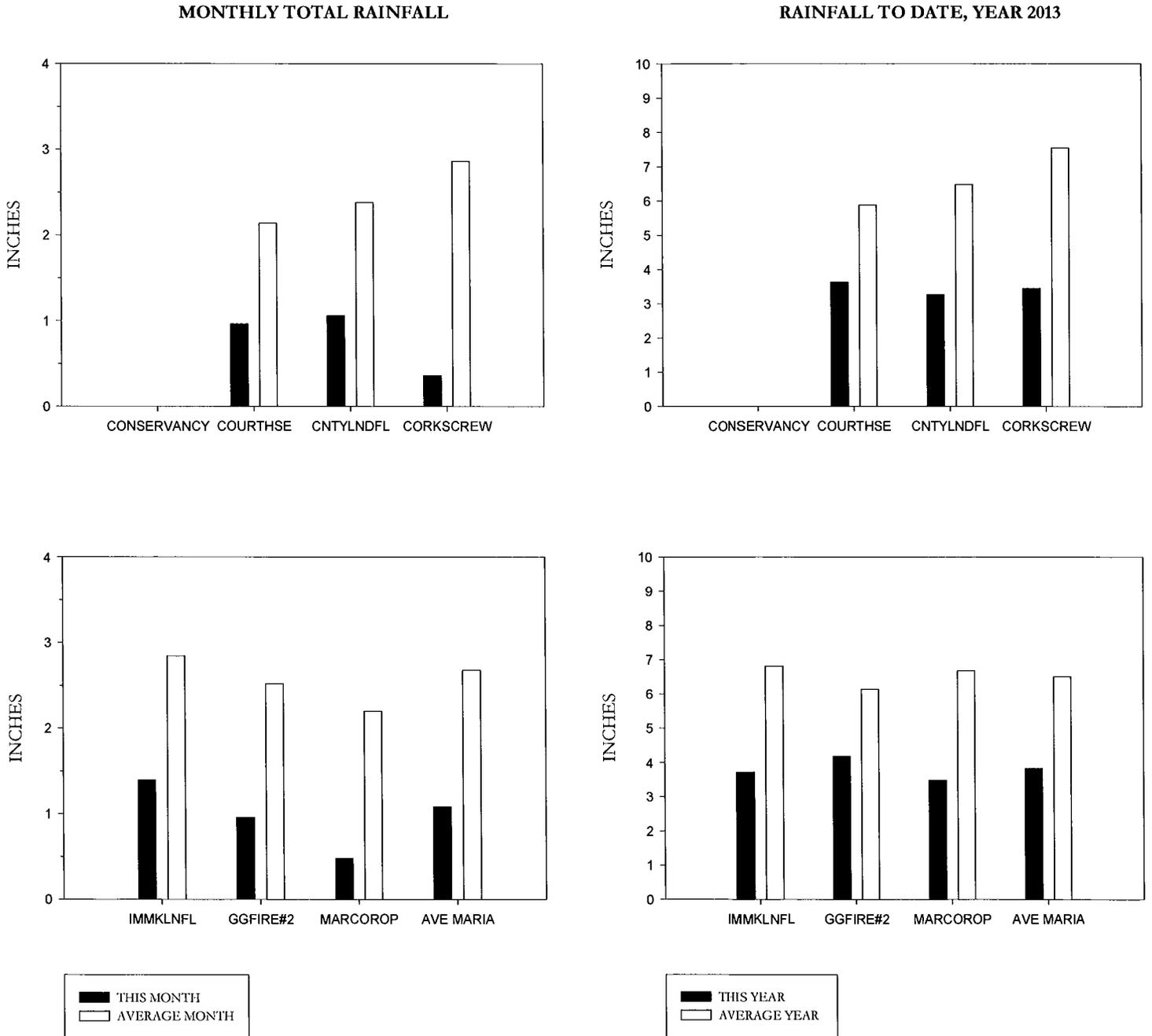
Attachment: Item 11_BCB HYDRO RPT_MAR 2013 (1266 : Basin Administrator Report)

TABLE 1
RAINFALL REPORT - MARCH 2013
DISTRICT/BASIN RAINFALL STATIONS
 (ALL NUMBERS ARE IN INCHES)

STATION INDEX NO	STATION NAME	CURRENT MONTH 2013	LONG TERM AVERAGE FOR THIS MONTH	MONTHLY DIFFERENCE	CALENDAR YEAR 2013 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	YEAR TO DATE DIFFERENCE	LONG TERM YEARLY AVERAGE
R-1	CONSERVANCY	Site off line	Gauge relocation					
R-2	COLLIER COUNTY COURTHOUSE	0.96	2.14	-1.18	3.63	5.88	-2.25	51.42
R-3	COLLIER COUNTY LANDFILL	1.06	2.38	-1.32	3.26	6.48	-3.22	62.21
R-4	CORKSCREW SWAMP	0.36	2.86	-2.50	3.45	7.55	-4.10	58.59
R-5	FAKAHATCHEE STRAND STATE PRESERVE	0.80	2.53	-1.73	3.82	6.20	-2.38	61.11
R-6	GOLDEN GATE FIRE STATION #2	0.96	2.52	-1.56	4.18	6.14	-1.96	58.19
R-7	IMMOKALEE LANDFILL	1.39	2.84	-1.45	3.71	6.81	-3.10	51.61
R-8	IFAS	2.44	2.96	-0.52	4.99	6.92	-1.93	49.8
R-9	MARCO ISLAND R.O. PLANT	0.48	2.20	-1.72	3.48	6.68	-3.20	53.79
R-10	FAKAHATCHEE NORTH END	0.82	2.69	-1.87	3.98	7.25	-3.27	60.98
R-11	COCOHATCHEE STRUCTURE #1	1.21	2.39	-1.18	4.30	5.83	-1.53	47.69
R-12	AVE MARIA	1.08	2.68	-1.60	3.82	6.51	-2.69	54.09
R-13	BCB FIELD STATION	0.92	2.09	-1.17	3.33	6.06	-2.73	54.27
R-14	COLLIER/SEMINOLE STATE PARK	0.62	2.50	-1.88	3.55	8.10	-4.55	55.39
R-15	BONITA SPRINGS WATER PLANT	0.51	2.01	-1.50	2.72	8.60	-5.88	52.41
Averages		0.97	2.49	-1.51	3.73	6.79	-3.06	55.11

MONTHLY AND YEAR-TO-DATE RAINFALL AT SELECTED LOCATIONS

MARCH 2013

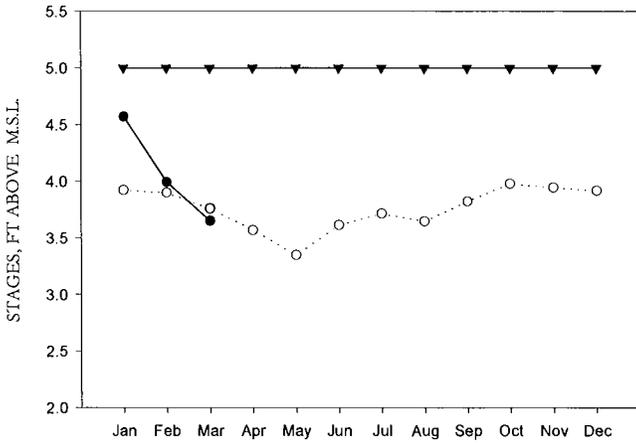


Attachment: Item 11_BCB HYDRO RPT_MAR 2013 (1266 : Basin Administrator Report)

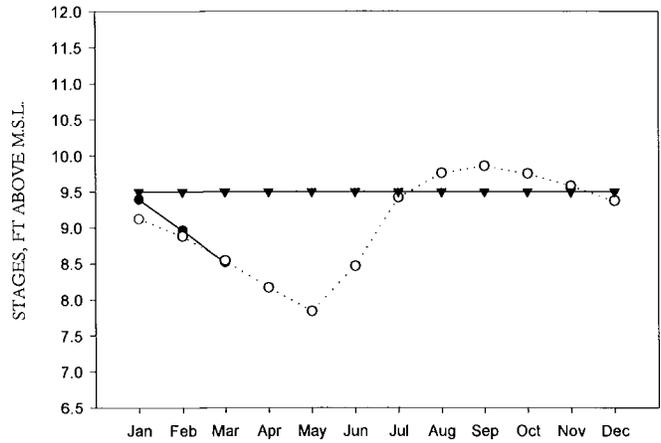
FIGURE 1

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

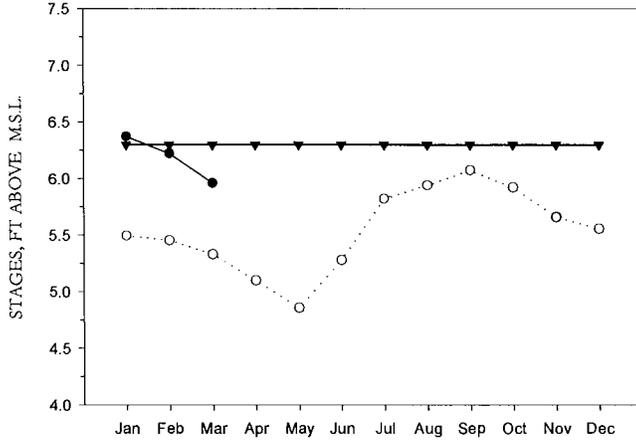
GOLDEN GATE CANAL AT WEIR 1



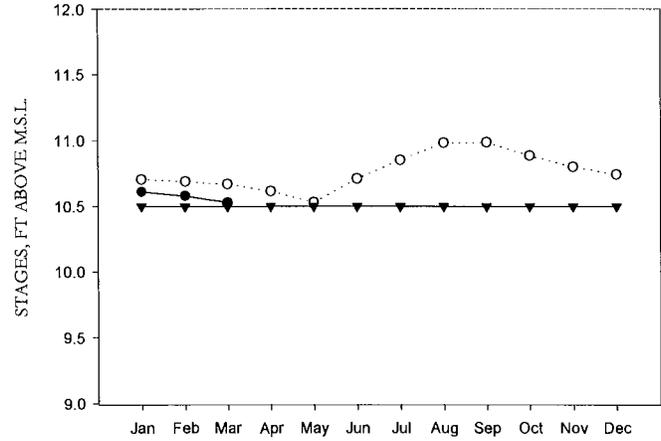
GOLDEN GATE CANAL AT WEIR 4



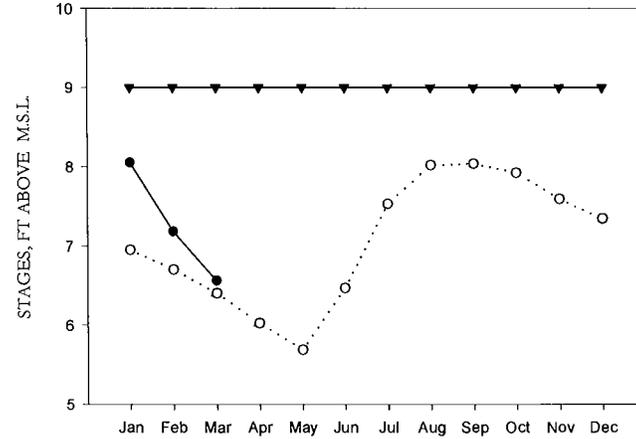
GOLDEN GATE CANAL AT WEIR 2



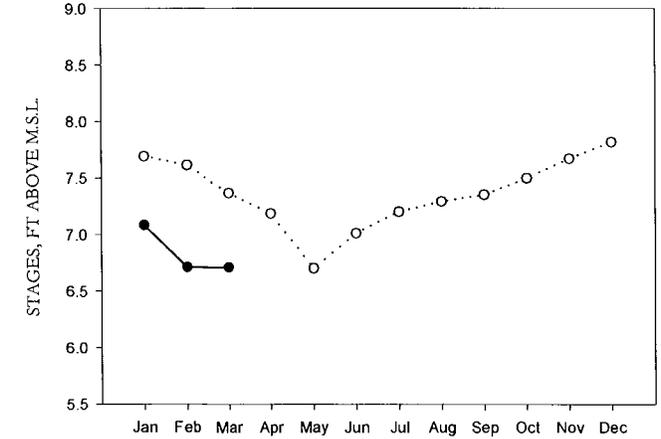
GOLDEN GATE CANAL AT WEIR 5



GOLDEN GATE CANAL AT WEIR 3



AIRPORT ROAD CANAL AT CR 31 SOUTH



● THIS YEAR:
 ○ LONG TERM AVERAGE
 ▼ WEIR CREST

FIGURE 2

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

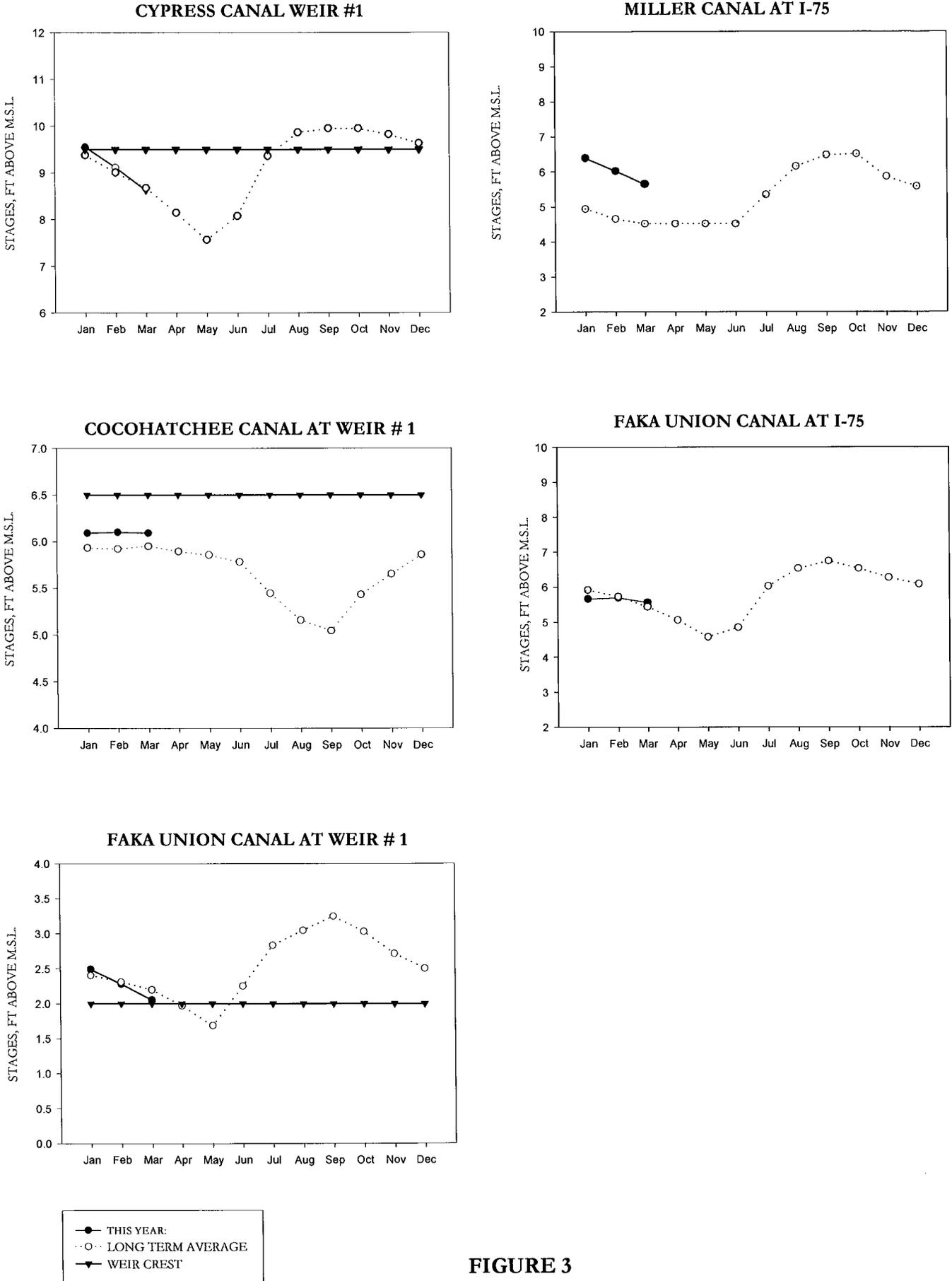


FIGURE 3

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

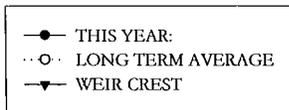
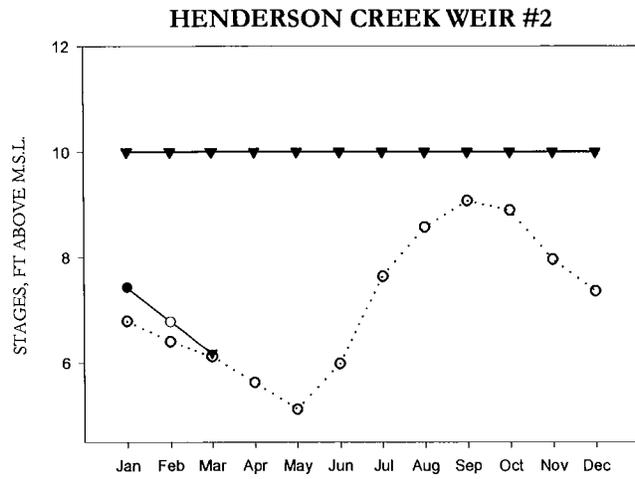
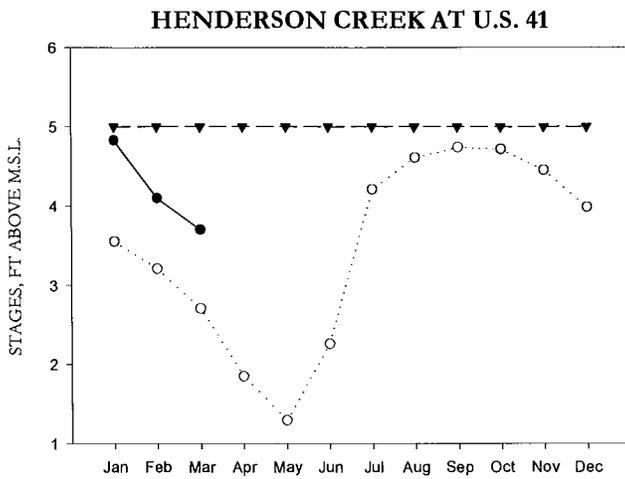
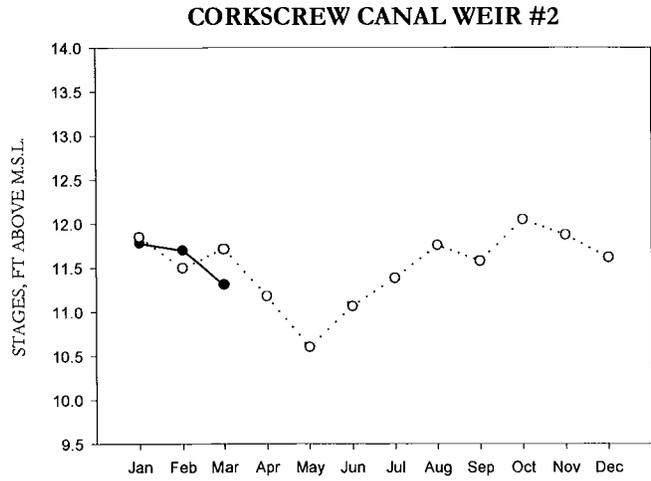
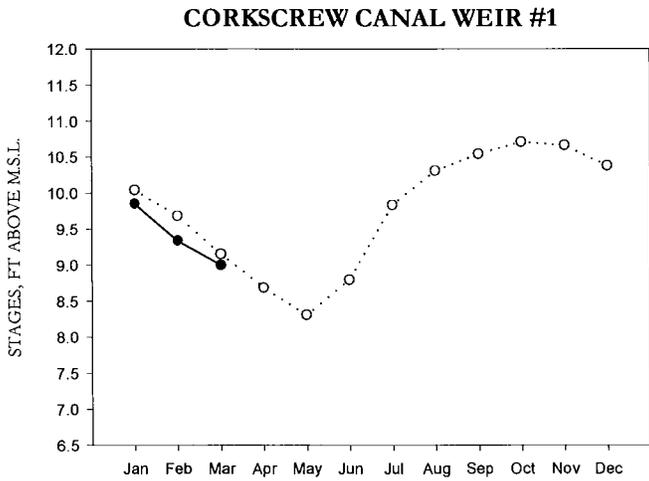
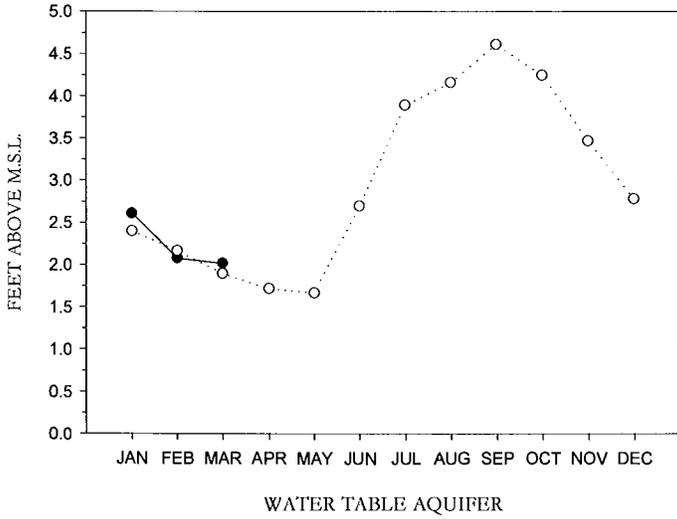


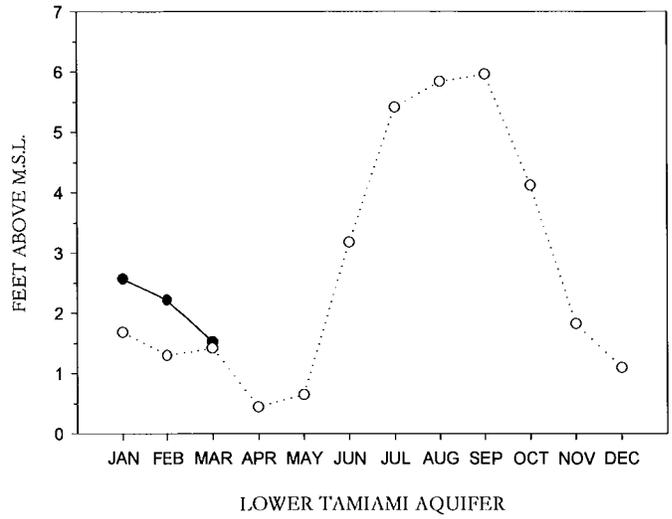
FIGURE 4

GROUNDWATER LEVELS AT SELECTED LOCATIONS 2013

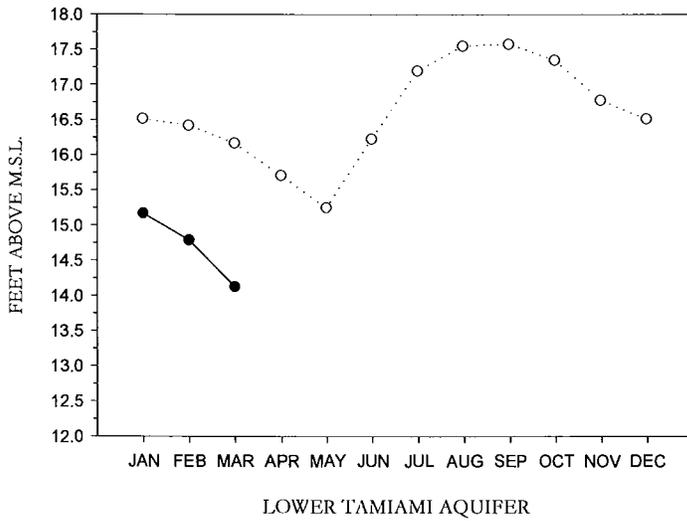
GROUND WATER LEVELS AT WELL C-1063
NEAR SIX Ls FARM ON US 41 EAST



GROUND WATER LEVELS AT WELL C-1004r
PALM RIVER BOULEVARD, NORTH NAPLES



GROUND WATER LEVELS AT C-492
CORKSCREW SWAMP SANCTUARY



—●— 2013
-○- Historical

FIGURE 5

Attachment: Item 11_BCB HYDRO RPT_MAR 2013 (1266 : Basin Administrator Report)

WATER USE BY MAJOR PUBLIC UTILITIES 2013

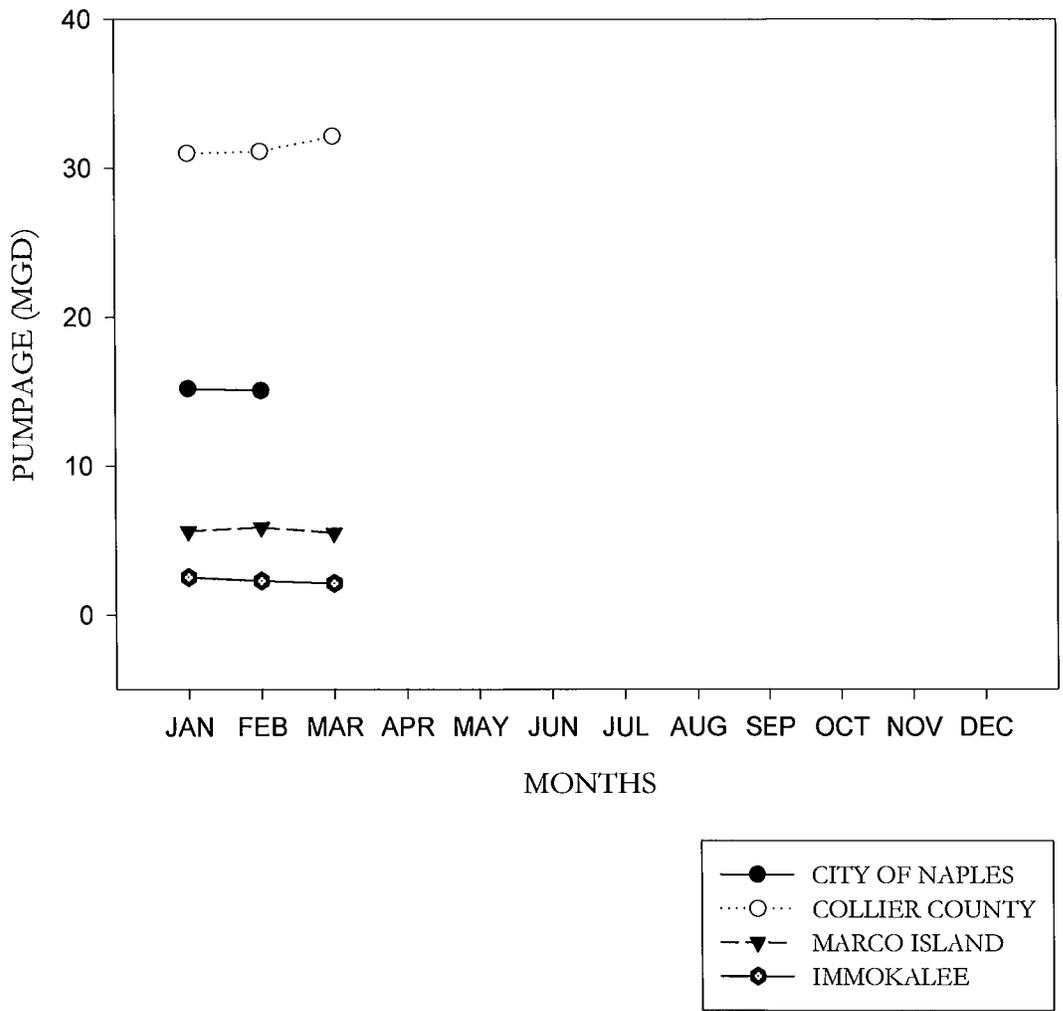


FIGURE 6

Attachment: Item 11_BCB HYDRO RPT_MAR 2013 (1266 : Basin Administrator Report)

SUMMARY OF HYDROLOGIC CONDITIONS IN BIG CYPRESS BASIN

FEBRUARY, 2013

SUMMARY

Hydrologic conditions in February were slightly above normal, thanks to a large system of frontal rain covering all of south Florida. Surface and groundwater levels continued the downward trend of the annual dry season cycle, but stayed at near normal levels. All of the water control structures were operated on the dry season schedules. Pumping operation in none of the Basin's pumpstations was activated.

RAINFALL

A strong cold front intruded deep into south Florida, and stalled over the eastern Gulf of Mexico during the second week of February. Favorable atmospheric moisture and wind directions generated an average of two inches of rain across the basin on 14th February. Dry and cool conditions prevailed for the rest of the month. The weighted average total rainfall for the month was 2.54 inches, or 29 percent above normal for February. Year to date rainfall is, however, 30 percent below normal. A summary of rainfall at various stations across the Basin is illustrated in Table 1 and Figure 1.

STREAMFLOWS AND GROUNDWATER LEVELS

Surface and groundwater levels in the canals, streams and regional aquifers continued to retreat from their annual peaks reached earlier in October. The operating ranges of the water control gates at Golden Gate Weir#1 were slightly modified to minimize release of water to the tides. All of the water control structures were operated on the dry season schedules. None of the three recharge pumps was activated. A summary of the surface water stage hydrographs at selected locations is illustrated in Figures 2, 3 and 4.

The regional groundwater levels in the surficial water table aquifer recorded an average decline of 0.54 feet and the Lower Tamiami aquifer wells recorded an average drop of 0.86 feet from the previous month. Hydrographs of selected key indicator wells are illustrated in Figure 5.

WATER USE

The average daily raw water pumpage by the major public water utilities in the Basin during February were not available at the time of writing this report:

Average Daily Raw Water Pumped (MGD)

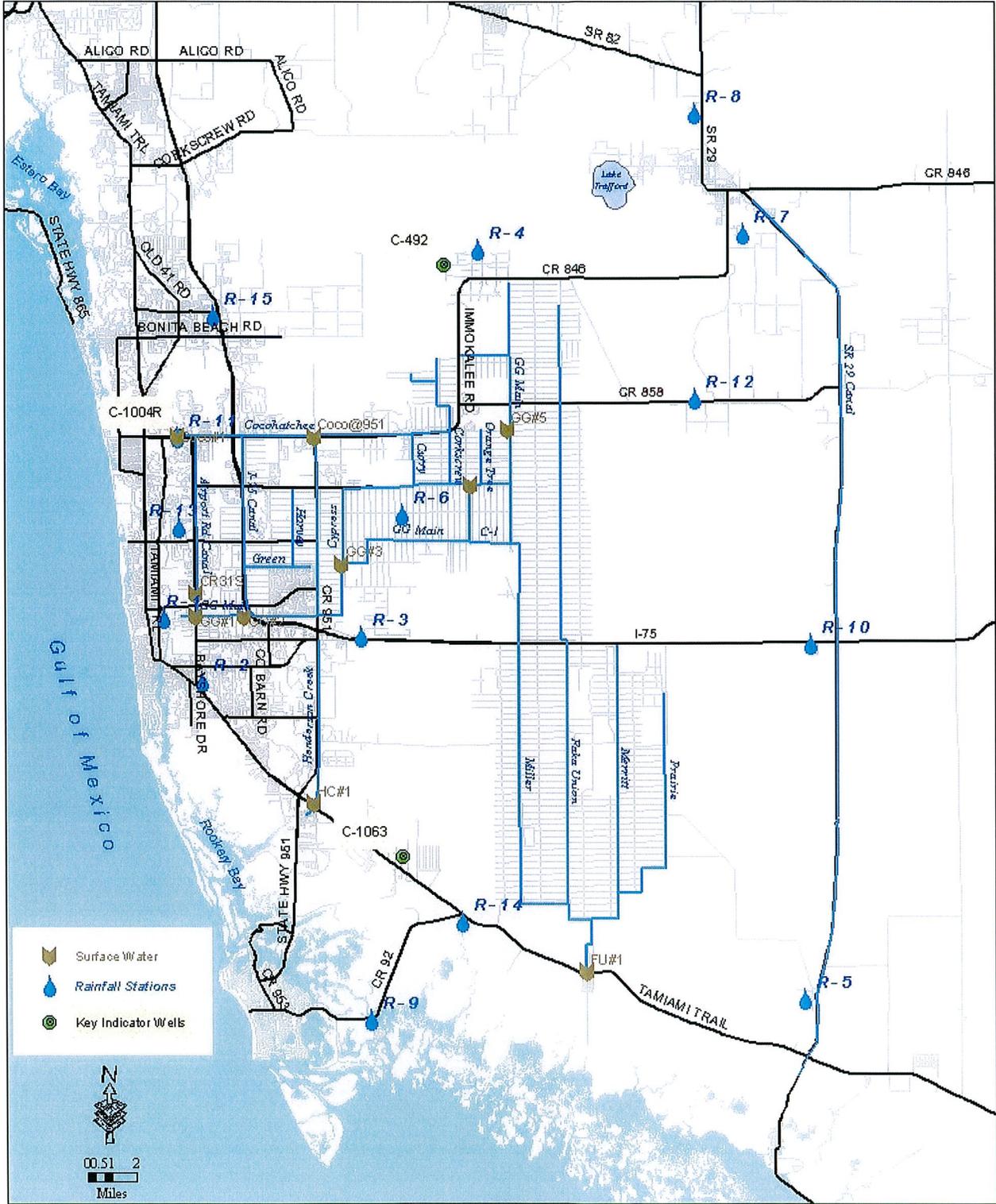
Utility	February 2013	February 2012
1. City of Naples Water Utility	15.07	14.99
2. Collier County Utilities	31.13	31.09
3. Marco Island Water Utility*	NA	5.79
4. Immokalee Water & Sewer District	2.27	2.20

*Raw water to the lime softening plant only

Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Hydrologic Report Station Map



MAP 1

Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

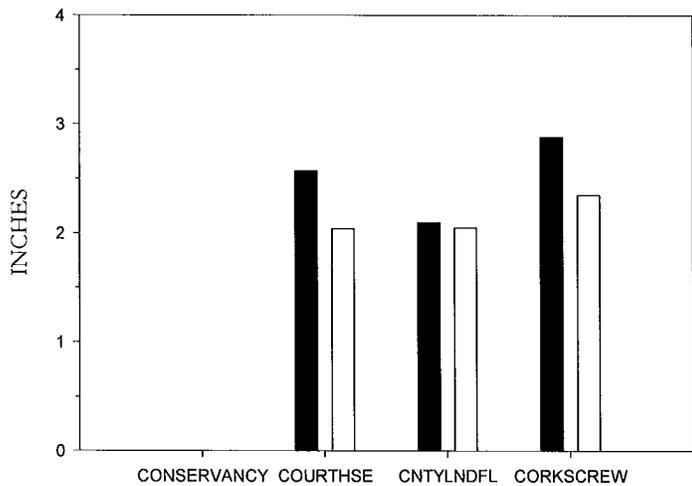
TABLE 1
RAINFALL REPORT - FEBRUARY 2013
DISTRICT/BASIN RAINFALL STATIONS
 (ALL NUMBERS ARE IN INCHES)

STATION INDEX NO.	STATION NAME	CURRENT MONTH 2013	LONG TERM AVERAGE FOR THIS MONTH	MONTHLY DIFFERENCE	CALENDAR YEAR 2013 CUMULATIVE TOTAL	AVERAGE CALENDAR YEAR TO DATE	YEAR TO DATE DIFFERENCE	LONG TERM YEARLY AVERAGE
R-1	CONSERVANCY	Site off line	Gauge relocation					
R-2	COLLIER COUNTY COURTHOUSE	2.57	2.04	0.53	2.67	3.74	-1.07	51.65
R-3	COLLIER COUNTY LANDFILL	2.10	2.05	0.05	2.20	4.10	-1.90	62.03
R-4	CORKSCREW SWAMP	2.88	2.35	0.53	3.09	4.69	-1.60	58.79
R-5	FAKAHATCHEE STRAND STATE PRESERVE	2.96	1.97	0.99	3.02	3.67	-0.65	61.22
R-6	GOLDEN GATE FIRE STATION #2	2.85	1.72	1.13	3.22	3.62	-0.40	58.33
R-7	IMMOKALEE LANDFILL	2.23	1.84	0.39	2.32	3.97	-1.65	51.98
R-8	IFAS	2.37	2.09	0.28	2.55	3.96	-1.41	50.04
R-9	MARCO ISLAND R.O. PLANT	2.97	2.00	0.97	3.00	4.48	-1.48	53.92
R-10	FAKAHATCHEE NORTH END	1.96	2.24	-0.28	3.16	4.56	-1.40	61.09
R-11	COCOATCHEE STRUCTURE #1	2.81	1.84	0.97	3.09	3.43	-0.34	47.76
R-12	AVE MARIA	2.69	1.77	0.92	2.74	3.83	-1.09	54.55
R-13	BCB FIELD STATION	2.37	2.05	0.32	2.41	3.97	-1.56	54.63
R-14	COLLIER/SEMINOLE STATE PARK	2.91	1.62	1.29	2.93	3.26	-0.33	55.25
R-15	BONITA SPRINGS WATER PLANT	1.93	2.04	-0.11	2.21	3.97	-1.76	53.03
Averages		2.54	1.97	0.57	2.76	3.95	-1.19	55.31

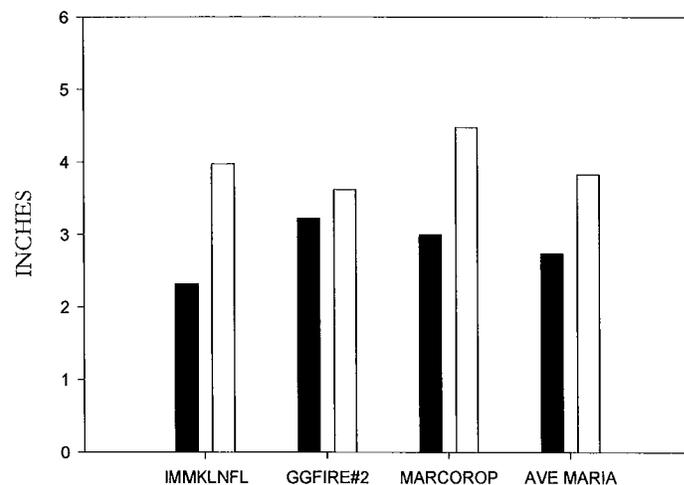
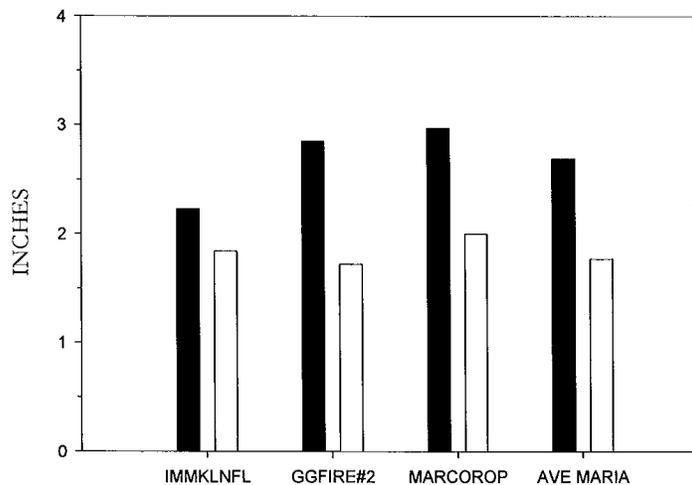
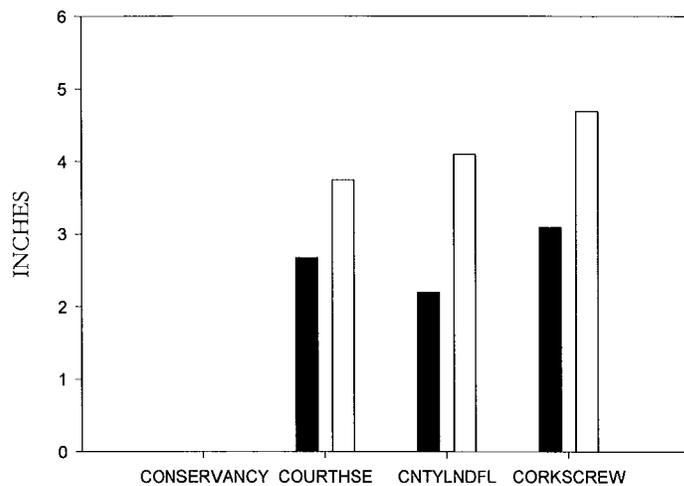
MONTHLY AND YEAR-TO-DATE RAINFALL AT SELECTED LOCATIONS

FEBRUARY 2013

MONTHLY TOTAL RAINFALL



RAINFALL TO DATE, YEAR 2013



THIS MONTH
AVERAGE MONTH

THIS YEAR
AVERAGE YEAR

FIGURE 1

Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

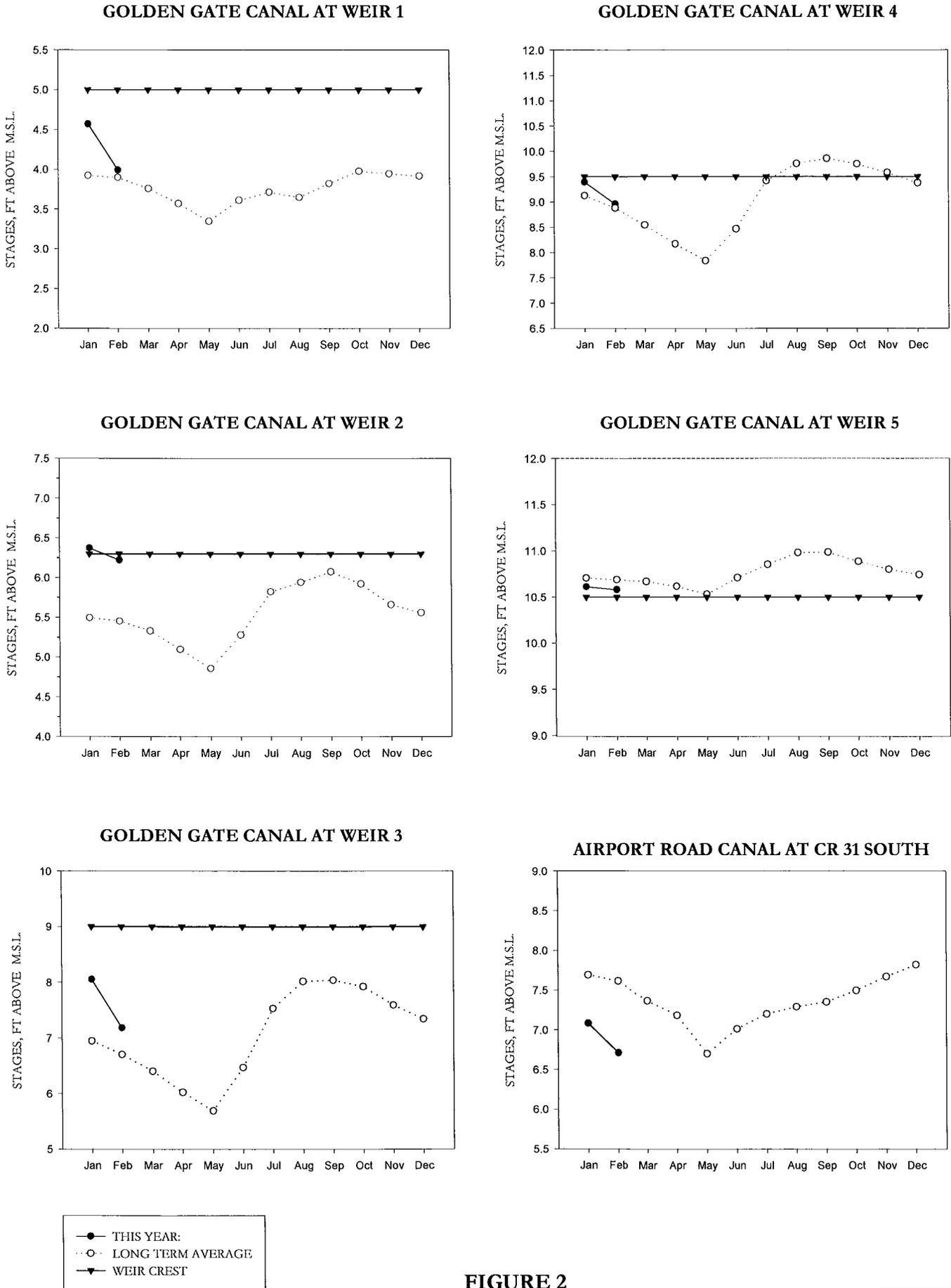


FIGURE 2

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

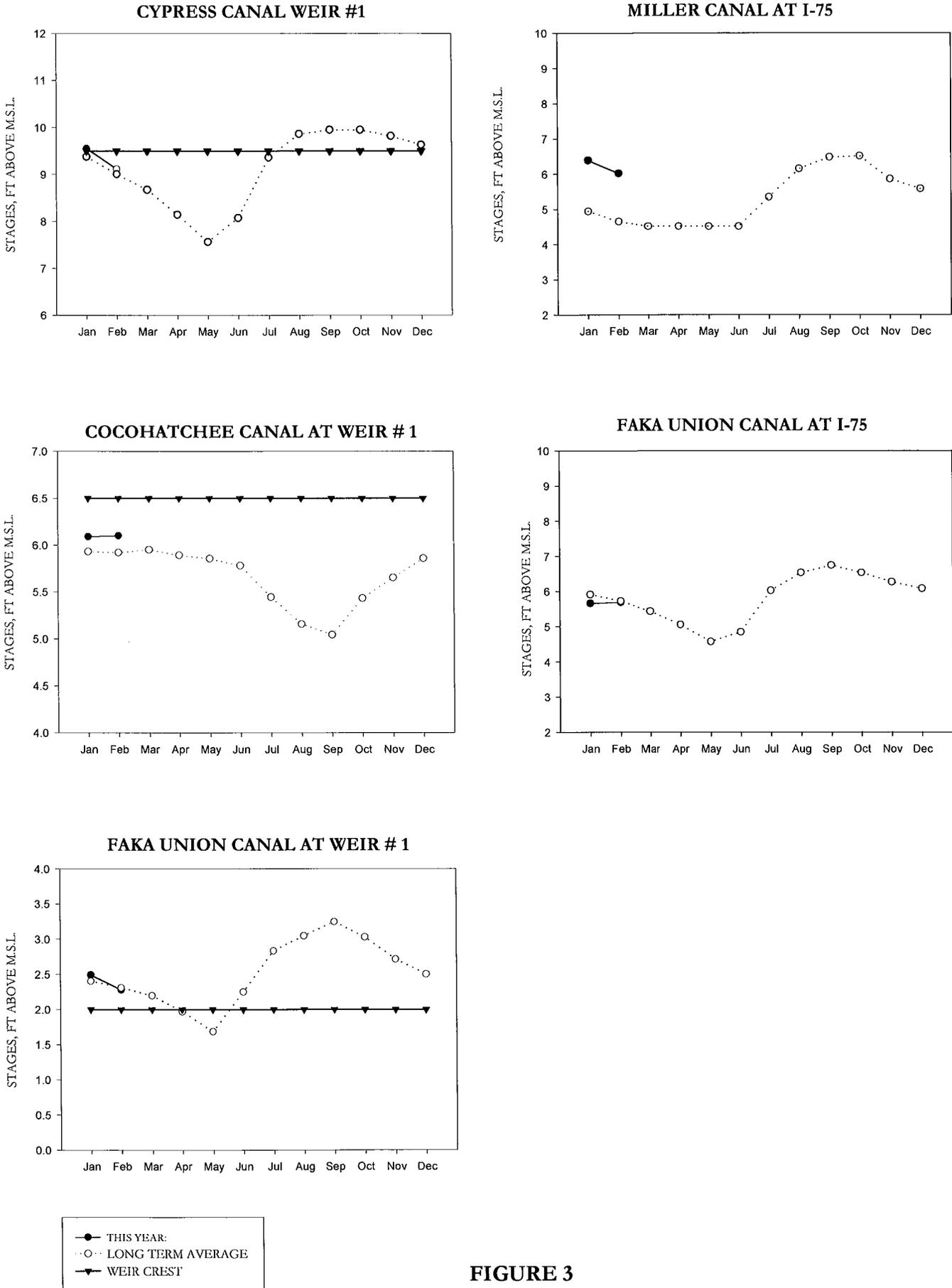
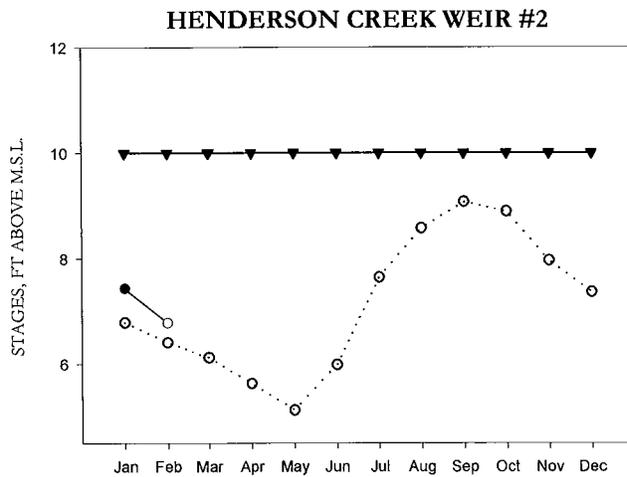
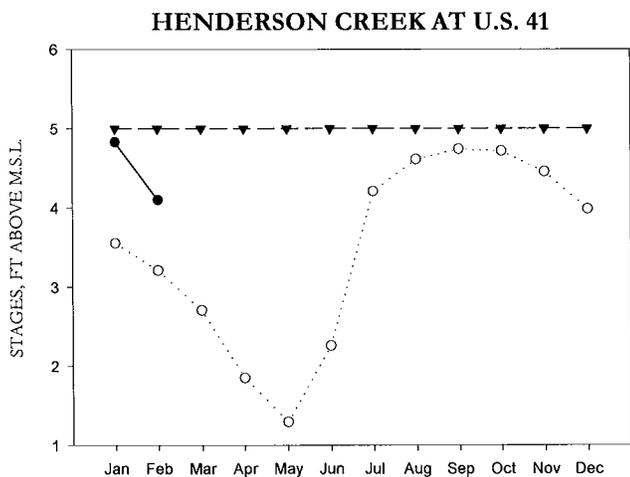
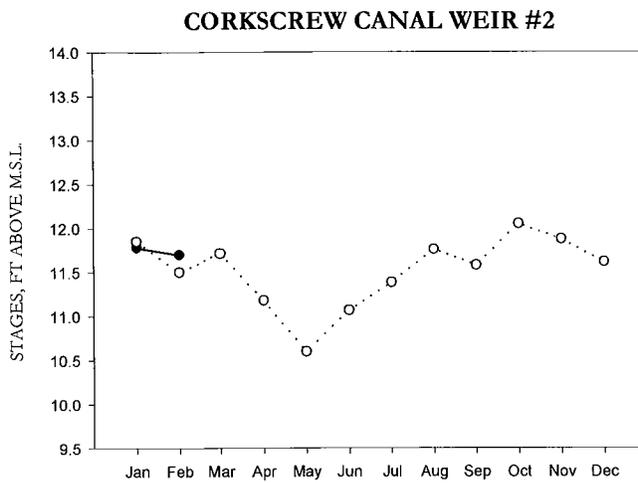
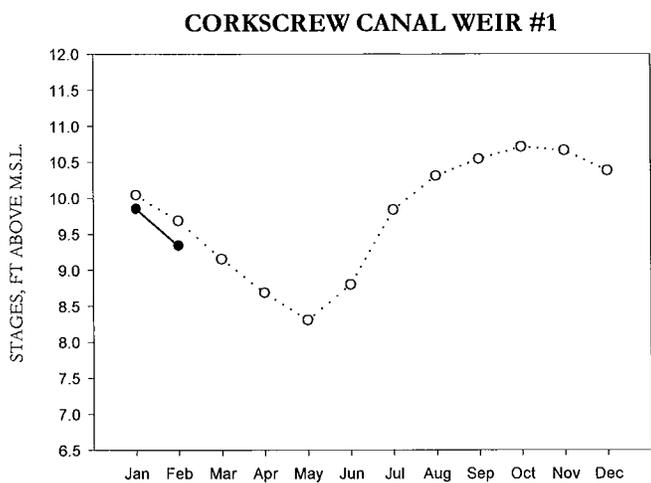


FIGURE 3

MONTHLY MEAN CANAL STAGES AT SELECTED LOCATIONS 2013

1.11.d



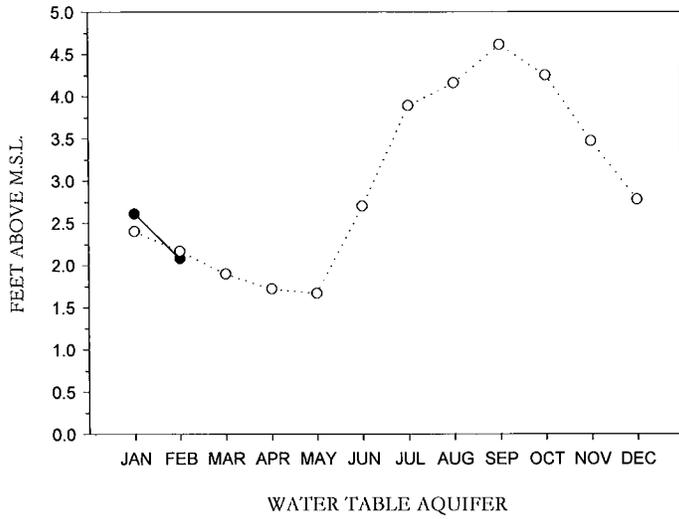
THIS YEAR:
LONG TERM AVERAGE
WEIR CREST

FIGURE 4

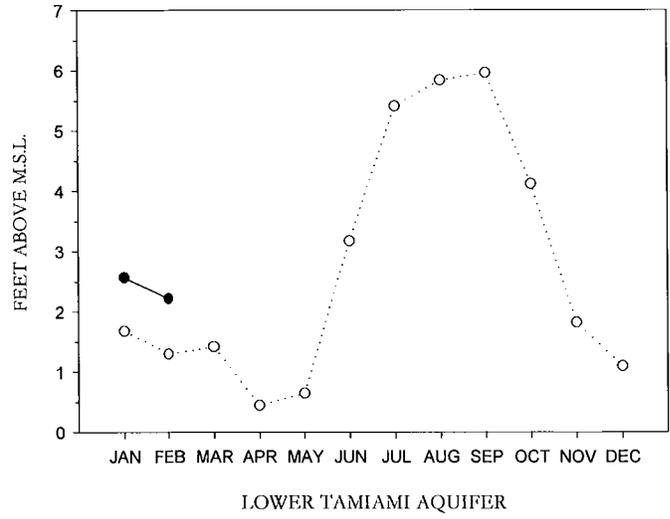
Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

GROUNDWATER LEVELS AT SELECTED LOCATIONS 2013

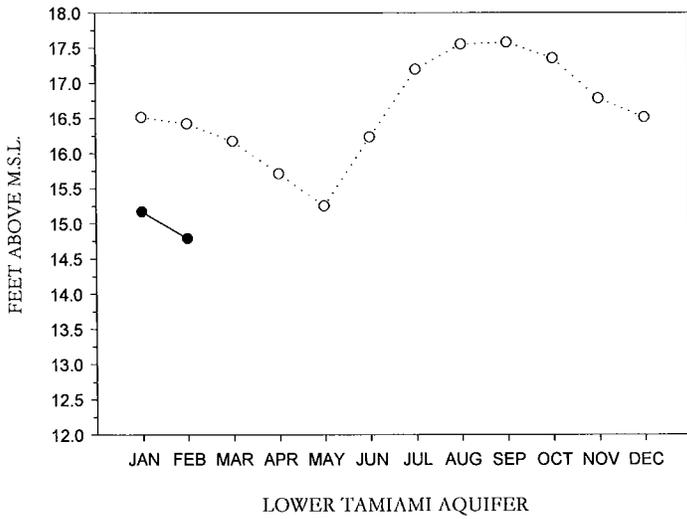
GROUND WATER LEVELS AT WELL C-1063
NEAR SIX Ls FARM ON US 41 EAST



GROUND WATER LEVELS AT WELL C-1004r
PALM RIVER BOULEVARD, NORTH NAPLES



GROUND WATER LEVELS AT C-492
CORKSCREW SWAMP SANCTUARY



—●— 2013
- - -○- - - Historical

FIGURE 5

Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

WATER USE BY MAJOR PUBLIC UTILITIES 2013

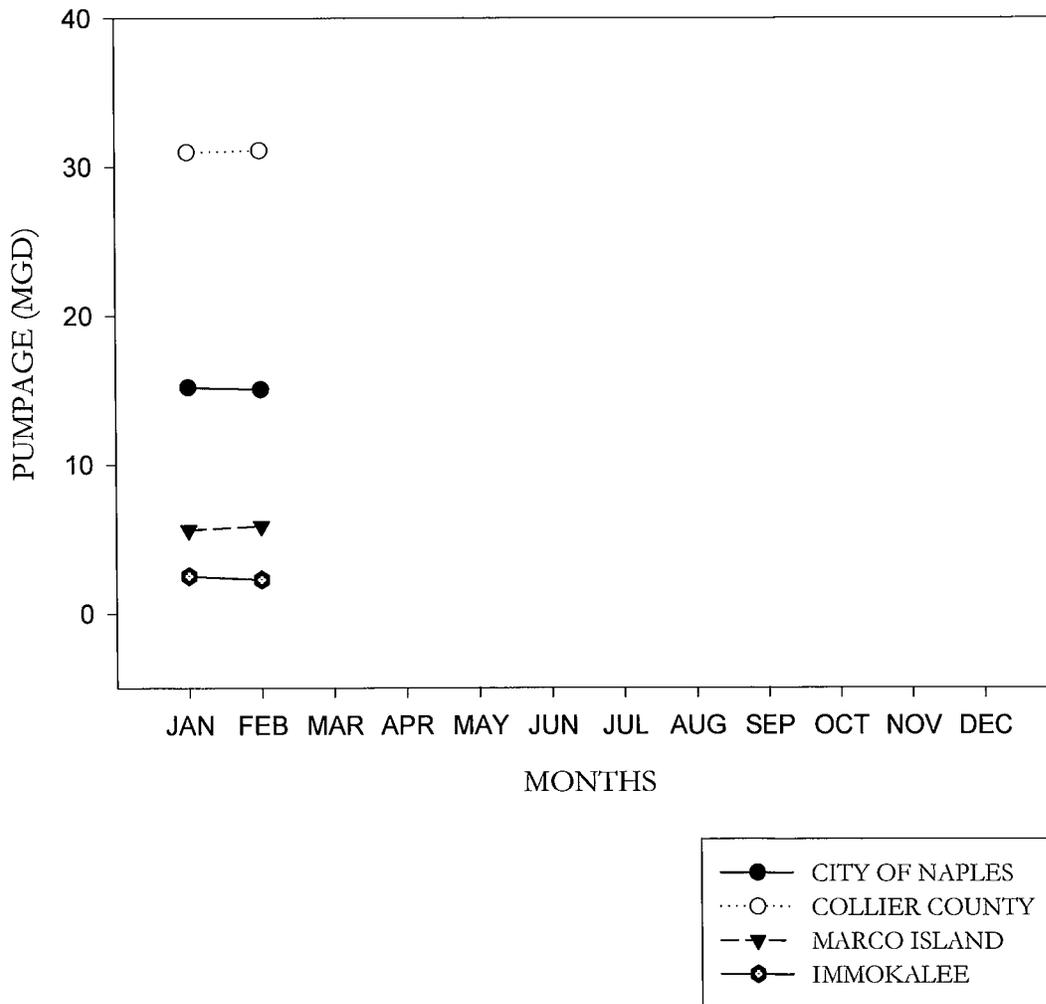


FIGURE 6

Attachment: Item 11_BCB HYDRO RPT FEB 2013 (1266 : Basin Administrator Report)

BIG CYPRESS BASIN WATER MANAGEMENT PLANNING AND CONSTRUCTION REPORT

February-April 2013

A. Ecosystem Restoration Projects

Lake Trafford:

Florida Gulf Coast University scientists are performing biological monitoring to assess the post restoration health of the lake. The FGCU team coordinates the inter-agency team (comprised of DEP, FWC, Collier County, FWS and SFWMD) and holds a quarterly progress meeting. At the last meeting in April, DEP provided an update regarding the installation of three new monitoring wells for assessment of groundwater inflow/outflow to/from the lake as a part of development of Basin Management Action Plan (BMAP).

Picayune Strand Restoration Project (PSRP)

1. Meritt Canal Pump station - Construction is approximately 9% behind schedule. Completed installation of majority of the intake and outflow piping system, and fuel piping and conduits, placement of articulating concrete blocks at weirs, forming and placing of the metal sheet piling, concrete cap, installation of trash rakes, installation of lightning protection, and alignment of pump drives. Other major inside work completed recently are installation of fuel piping supports, plumbing features and control panels for roll filters.
2. Faka Union Pumpstation - Construction is approximately 1% behind schedule. Continued road degrading through 122nd Ave; excavation of borrow canals for extension of the Merritt levee to the Faka Union pumpstation; clearing, stock piling and burning of surplus biomass between 114th and 128th Avenues. Maintenance of erosion and storm water controls continues. Structural reinforcement concrete work of the pumpstation building continues in bays 2, 3 and 4.
3. Miller Canal Pumpstation – Inter-agency review of the intermediate plans and specs have been completed. Final design in progress with expected construction contract bidding in late summer.
4. Protection Features - Tier 1 modeling completed. Engineering staff provided inter-agency review comments for the features near Six L's Farm/Collier Seminole State Park areas

B. Capital Projects

1. **Miller #3** - District Engineering Design staff has completed intermediate design, and it is under District inter-departmental staff review.
2. **28th Avenue Culvert Replacement** - Grady Minor Engineering has completed intermediate design of the culvert replacement on Miller Canal, consultants under contract with Collier County Transportation Engineering Department. The District's Design Review Team submitted comments in response to the County's Request for Additional Information of the Right-of-Way application review process. Collier County will construct the project under a cooperative agreement with the District. Construction will begin later this year.
3. **Field Station**- Engineering & Construction Bureau staff is evaluating contractual process for architectural and engineering design and construction of a new Field Station building in the City Gate Commercial Complex. Staff will provide periodic updates to the board on the progress of this project.
4. **Henderson Creek Diversion** – Several meetings have occurred regarding the acquisition of land for the Henderson Creek Diversion project. Collier County Public Utilities Division has taken the lead on acquisition and will be working with the current owner on acquisition. Staff has been coordinating with the Collier County Transportation and Utility Divisions and has identified the mutual benefit of the public to partner on the acquisition of this property. Acquisition of the property, and consequently, our easement, is not expected until early fall.

D. Water Management Planning

1. The draft Hydrologic-Hydraulic assessment report for construction of a new Miller Canal Weir#3 was completed and furnished to the Engineering Design Team.
2. The Big Cypress Basin Surface and Groundwater Integrated model, updated, as a part of the Collier County Watershed Management Plan has been further enhanced incorporating the peer review comments of consultants and District staff. Basin staff continues to update the model as a part of routine modeling work.
3. Integrated hydrologic-hydraulic modeling for Henderson Creek Diversion is in progress.
4. Atkins Engineers for Collier County completed a draft final report of the Northern Golden Gate Estates Flowway Restoration plan in January under joint funding provided by BCB and DEP. Staff from the District, DEP and Collier County provided comments to the consultant and the final deliverable is expected shortly.