WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow January 5, 2016 to January 11, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

------ Data Summary ------
December 25, 2015 to January 1, 2016

WCA-3A Stage (end of week) 10.53 ft. msl
Angel's 6.65 ft. msl
G3273 7.04 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.17</td>
<td>1.02</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>0.90</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.17 0.96
Pre-Project Avg 0.27 0.75

----- Transition Zone Information ----- 
WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.03 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- 
Rainfall Formula Amount 668 cfs
Last Week's Rainfall Formula 699 cfs
Pre-Project Mean Discharge 247 cfs
Rainfall Excess Terms
RL1 -0.06
RL2 4.62
RL3 0.24

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow: January 12, 2016 to January 18, 2016

S-12 Discharge: MAX cfs
S-333 Discharge: MAX cfs

------ Data Summary ------

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.51 ft. msl</td>
<td></td>
</tr>
<tr>
<td>Angel's</td>
<td>6.60 ft. msl</td>
<td></td>
</tr>
<tr>
<td>G3273</td>
<td>7.04 ft. msl</td>
<td></td>
</tr>
</tbody>
</table>

NEXRAD Rain for WCA-3A and S7 evaporation
This Week's Avg: 0.64 in
Pre-Project Avg: 0.25 in

S-140
This Week's Avg: 0.64 in
Pre-Project Avg: 0.25 in

ENP
This Week's Avg: 0.76 in
Pre-Project Avg: 0.77 in

----- Transition Zone Information -----

WCA-3A is in Zone A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone: -0.06 feet
Distance to Top of Current Zone: N/A feet

----- Statistical Parameters -----

Rainfall Formula Amount: 1073 cfs
Last Week's Rainfall Formula: 668 cfs
Pre-Project Mean Discharge: 216 cfs

Rainfall Excess Terms
RL1 0.06  RL2 3.31  RL3 1.89

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  January 19, 2016  to  January 25, 2016  MAX  cfs
S-12 Discharge  MAX  cfs
S-333 Discharge  MAX  cfs

------- Data Summary -------
January 8, 2016  to  January 15, 2016
WCA-3A Stage (end of week)  10.57  ft. msl
Angel's  6.83  ft. msl
G3273  7.11  ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A</td>
<td>1.80</td>
<td>0.85</td>
</tr>
<tr>
<td>and S7 evaporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-140</td>
<td>0.77</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg  1.80  0.81
Pre-Project Avg  0.35  0.81

----- Transition Zone Information -----
WCA-3A is in Zone  A  Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is  MAX  cfs
Distance to Bottom of Current Zone  -0.17  feet
Distance to Top of Current Zone  N/A  feet

----- Statistical Parameters ------
Rainfall Formula Amount  757  cfs
Last Week's Rainfall Formula  652  cfs
Pre-Project Mean Discharge  186  cfs
Rainfall Excess Terms
  RL1  1.77
  RL2  0.69
  RL3  4.86

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
### WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow**  
January 26, 2016 to February 1, 2016  
MAX cfs

- **S-12 Discharge**  
- **S-333 Discharge**

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.76</td>
<td>1.11</td>
</tr>
<tr>
<td>S-140</td>
<td>0.63</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg  
Pre-Project Avg

1.76  
0.33

0.87  
0.83

<table>
<thead>
<tr>
<th>WCA-3A is in Zone</th>
<th>Discharge Coeff. (cfs/ft) = N/A</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>MAX cfs</td>
</tr>
</tbody>
</table>

- **Supplemental discharge is**  
- **Distance to Bottom of Current Zone** -0.26 feet  
- **Distance to Top of Current Zone** N/A feet

<table>
<thead>
<tr>
<th>Rainfall Excess Terms</th>
<th>RL1</th>
<th>RL2</th>
<th>RL3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.85</td>
<td>0.11</td>
<td>4.87</td>
</tr>
</tbody>
</table>

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE:* Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
# WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow**  February 2, 2016 to  February 8, 2016  MAX  cfs

S-12 Discharge  
S-333 Discharge  MAX  cfs

-------- Data Summary --------

<table>
<thead>
<tr>
<th>Date</th>
<th>Stage (end of week)</th>
<th>Angel's</th>
<th>G3273</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 22, 2016</td>
<td>11.02 ft. msl</td>
<td>7.33 ft. msl</td>
<td>7.39 ft. msl</td>
</tr>
</tbody>
</table>

Station | Rainfall (in) | Pan Evaporation (in) |
--------|---------------|----------------------|
NEXRAD Rain for WCA-3A and S7 evaporation | 4.76 | 1.55 |
S-140 | 0.67 |
ENP | M |

| This Week's Avg | 4.76 |
| Pre-Project Avg | 0.35 |

### Transition Zone Information

- **WCA-3A is in Zone A**
- **Discharge Coeff. (cfs/ft) = N/A**
- **Supplemental discharge is MAX cfs**
- **Distance to Bottom of Current Zone = -0.71 feet**
- **Distance to Top of Current Zone = N/A feet**

### Statistical Parameters

- **Rainfall Formula Amount** = 1279 cfs
- **Last Week's Rainfall Formula** = 918 cfs
- **Pre-Project Mean Discharge** = 130 cfs

| Rainfall Excess Terms | RL1 5.62 | RL2 1.72 | RL3 4.62 |

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  February 9, 2016  to  February 15, 2016  MAX  cfs
S-12 Discharge
S-333 Discharge

-------- Data Summary --------
January 29, 2016  to  February 5, 2016

WCA-3A Stage (end of week) 11.22 ft. msl
Angel's 7.20 ft. msl
G3273 7.31 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.63</td>
<td>1.11</td>
</tr>
<tr>
<td>S-140</td>
<td>1.06</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
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</tbody>
</table>

This Week's Avg 0.63 1.08
Pre-Project Avg 0.35 0.94

----- Transition Zone Information -----  
WCA-3A is in Zone A  Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs  
Distance to Bottom of Current Zone -0.96 feet  
Distance to Top of Current Zone N/A feet

----- Statistical Parameters -----  
Rainfall Formula Amount 1520 cfs  
Last Week's Rainfall Formula 1279 cfs  
Pre-Project Mean Discharge 110 cfs

Rainfall Excess Terms
SL1 4.39  
SL2 2.91  
SL3 3.31

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  February 16, 2016  to  February 22, 2016  MAX  cfs
S-12 Discharge  MAX  cfs
S-333 Discharge  MAX  cfs

------ Data Summary ------
WCA-3A Stage (end of week)  February 5, 2016  to  February 12, 2016
Angel's  11.38 ft. msl
G3273  7.03 ft. msl

Station                  Rainfall (in)  Pan Evaporation (in)
NEXRAD Rain for WCA-3A  and S7 evaporation  0.70  0.97

S-140  1.08

ENP  M

This Week's Avg  0.70  1.03
Pre-Project Avg  0.35  1.01

----- Transition Zone Information -----  Discharge Coeff. (cfs/ft) = N/A
WCA-3A is in Zone A  MAX  cfs
Supplemental discharge is  N/A
Distance to Bottom of Current Zone  -1.17 feet
Distance to Top of Current Zone  N/A  feet

----- Statistical Parameters -----  Rainfall Formula Amount  1479 cfs
Rainfall Formula Amount  Last Week's Rainfall Formula  1520 cfs
Pre-Project Mean Discharge  88 cfs

Rainfall Excess Terms  RL1  0.50  RL2  7.40  RL3  0.69

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow February 23, 2016 to February 29, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

------- Data Summary -------
February 12, 2016 to February 19, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>11.49 ft. msl</td>
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</tr>
<tr>
<td>Angel's</td>
<td>6.90 ft. msl</td>
<td></td>
</tr>
<tr>
<td>G3273</td>
<td>7.17 ft. msl</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.02</td>
<td>1.34</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.16</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.02 1.25
Pre-Project Avg 0.38 1.08

----- Transition Zone Information ----- WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -1.32 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- Rainfall Formula Amount 1392 cfs
Last Week's Rainfall Formula 1479 cfs
Pre-Project Mean Discharge 69 cfs

Rainfall Excess Terms RL1 -0.16 RL2 7.24 RL3 0.11

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  March 1, 2016  to  March 7, 2016  MAX  cfs
S-12 Discharge
S-333 Discharge

------- Data Summary -------
February 19, 2016  to  February 26, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A</td>
<td>0.39</td>
<td>1.04</td>
</tr>
<tr>
<td>and S7 evaporation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-140</td>
<td>1.20</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg  0.39
Pre-Project Avg  0.40

----- Transition Zone Information -----  
WCA-3A is in Zone  A  Discharge Coeff. (cfs/ft) =  N/A
Supplemental discharge is  MAX  cfs
Distance to Bottom of Current Zone  -1.35 feet
Distance to Top of Current Zone  N/A  feet

----- Statistical Parameters -----  
Rainfall Formula Amount  1299 cfs
Last Week's Rainfall Formula  1392 cfs
Pre-Project Mean Discharge  50 cfs

Rainfall Excess Terms
RL1  -0.48  RL2  6.13  RL3  1.72

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow March 8, 2016 to March 14, 2016 MAX cfs
S-12 Discharge
S-333 Discharge

------ Data Summary ------
February 26, 2016 to March 4, 2016 MAX cfs
WCA-3A Stage (end of week) 11.41 ft. msl
Angel's 7.04 ft. msl
G3273 7.26 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.00</td>
<td>1.10</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.21</td>
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<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.00 1.15
Pre-Project Avg 0.33 1.22

------ Transition Zone Information ------
WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -1.34 feet
Distance to Top of Current Zone N/A feet

------ Statistical Parameters ------
Rainfall Formula Amount 1220 cfs
Last Week's Rainfall Formula 1299 cfs
Pre-Project Mean Discharge 35 cfs
Rainfall Excess Terms
RL1 -0.26
RL2 4.23
RL3 2.91

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  March 15, 2016 to March 21, 2016  MAX cfs
S-12 Discharge  MAX cfs
S-333 Discharge  MAX cfs

-------- Data Summary --------  March 4, 2016 to March 11, 2016
WCA-3A Stage (end of week)  11.22 ft. msl
Angel's  7.10 ft. msl
G3273  7.31 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.28</td>
<td>1.54</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.53</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg  0.28  1.54
Pre-Project Avg  0.43  1.29

----- Transition Zone Information -----  WCA-3A is in Zone A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone  -1.19 feet
Distance to Top of Current Zone  N/A feet

----- Statistical Parameters -----  Discharge Coeff. (cfs/ft) = N/A
Rainfall Formula Amount  1135 cfs
Last Week's Rainfall Formula  1220 cfs
Pre-Project Mean Discharge  25 cfs
Rainfall Excess Terms
RL1  -0.62
RL2  0.02
RL3  7.40

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow March 22, 2016 to March 28, 2016  MAX cfs
S-12 Discharge  MAX cfs
S-333 Discharge  MAX cfs

------- Data Summary -------  March 11, 2016 to March 18, 2016
WCA-3A Stage (end of week)  11.22 ft. msl
Angel's  7.17 ft. msl
G3273  7.36 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.11</td>
<td>1.36</td>
</tr>
<tr>
<td>S-140</td>
<td>1.57</td>
<td></td>
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<tr>
<td>ENP</td>
<td>M</td>
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</table>

This Week's Avg 0.11  1.46
Pre-Project Avg 0.43  1.36

----- Transition Zone Information -----  WCA-3A is in Zone A  Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -1.24 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters -----  Rainfall Formula Amount 1060 cfs
Last Week’s Rainfall Formula 1135 cfs
Pre-Project Mean Discharge 26 cfs

Rainfall Excess Terms
RL1 -0.75  RL2 -0.42  RL3 7.24

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
## WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow** March 29, 2016 to April 4, 2016 **MAX** cfs

- S-12 Discharge
- S-333 Discharge

**------- Data Summary -------**

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A</td>
<td>0.89</td>
<td>1.23</td>
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<tr>
<td>and S7 evaporation</td>
<td></td>
<td></td>
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<tr>
<td>S-140</td>
<td>1.43</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
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</table>

This Week's Avg: 0.89 1.33

Pre-Project Avg: 0.54 1.41

**---- Transition Zone Information ----**

- WCA-3A is in Zone A  **Discharge Coeff. (cfs/ft) = N/A**
- Supplemental discharge is MAX cfs
- Distance to Bottom of Current Zone: -0.94 feet
- Distance to Top of Current Zone: N/A feet

**---- Statistical Parameters ----**

- Rainfall Formula Amount: 1026 cfs
- Last Week's Rainfall Formula: 1060 cfs
- Pre-Project Mean Discharge: 31 cfs

Rainfall Excess Terms:

- RL1: 0.01
- RL2: -1.10
- RL3: 6.13

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
### WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow** April 5, 2016 to April 11, 2016

<table>
<thead>
<tr>
<th>Discharge</th>
<th>MAX cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12 Discharge</td>
<td></td>
</tr>
<tr>
<td>S-333 Discharge</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Summary</th>
<th>March 25, 2016 to April 1, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage</td>
<td>10.68 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>7.21 ft. msl</td>
</tr>
<tr>
<td>G3273</td>
<td>7.38 ft. msl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.85</td>
<td>1.14</td>
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<tr>
<td>S-140</td>
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<td>1.64</td>
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<table>
<thead>
<tr>
<th></th>
<th>This Week's Avg</th>
<th>Pre-Project Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall (in)</td>
<td>0.85</td>
<td>0.59</td>
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<tr>
<td>Pan Evaporation (in)</td>
<td>1.39</td>
<td>1.47</td>
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### Transition Zone Information

WCA-3A is in Zone **A**

<table>
<thead>
<tr>
<th>Supplemental discharge</th>
<th>MAX cfs</th>
</tr>
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<tbody>
<tr>
<td>Distance to Bottom of Current Zone</td>
<td>-0.79 feet</td>
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<tr>
<td>Distance to Top of Current Zone</td>
<td>N/A feet</td>
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### Statistical Parameters

<table>
<thead>
<tr>
<th>Rainfall Formula Amount</th>
<th>1025 cfs</th>
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<tbody>
<tr>
<td>Last Week's Rainfall Formula</td>
<td>1026 cfs</td>
</tr>
<tr>
<td>Pre-Project Mean Discharge</td>
<td>32 cfs</td>
</tr>
</tbody>
</table>

| Rainfall Excess Terms | RL1 0.74 | RL2 -1.01 | RL3 4.23 |

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow April 12, 2016 to April 18, 2016 MAX cfs
S-12 Discharge
S-333 Discharge

-------- Data Summary --------

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.43 ft. msl</td>
<td></td>
</tr>
<tr>
<td>Angel's</td>
<td>7.21 ft. msl</td>
<td></td>
</tr>
<tr>
<td>G3273</td>
<td>7.38 ft. msl</td>
<td></td>
</tr>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.07</td>
<td>1.78</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.58</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
<tr>
<td>This Week's Avg</td>
<td>0.07</td>
<td>1.68</td>
</tr>
<tr>
<td>Pre-Project Avg</td>
<td>0.60</td>
<td>1.51</td>
</tr>
</tbody>
</table>

----- Transition Zone Information ----- 
WCA-3A is in Zone A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.59 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- 
Rainfall Formula Amount 914 cfs
Last Week's Rainfall Formula 1025 cfs
Pre-Project Mean Discharge 31 cfs
Rainfall Excess Terms
RL1 -0.34
RL2 -0.61
RL3 0.02

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Deliveries to Shark River Slough
Computed by Rainfall Plan

- Actual Rain
- Historical Rainfall

Shark River Slough
Actual vs. Historical Rainfall

Data Week Ending

Average Rainfall (Inches)


Actual Rainfall Formula Amount
SRS Discharge from Rainfall Plan
Maximum Discharge

Flow (CFS)

-1000 -500 0 500 1000 1500 2000 2500 3000 3500 4000


Operational Week Starting

= Minimum Delivery Schedule
= Maximum Discharge
= SRS Discharge from Rainfall Plan
= Rainfall Formula Amount
### WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow** April 19, 2016 to April 25, 2016

<table>
<thead>
<tr>
<th>Discharge</th>
<th>MAX cfs</th>
</tr>
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<tbody>
<tr>
<td>S-12</td>
<td>cfs</td>
</tr>
<tr>
<td>S-333</td>
<td>cfs</td>
</tr>
</tbody>
</table>

#### Data Summary

<table>
<thead>
<tr>
<th>April 9, 2016 to April 15, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
</tr>
<tr>
<td>10.18 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
</tr>
<tr>
<td>7.07 ft. msl</td>
</tr>
<tr>
<td>G3273</td>
</tr>
<tr>
<td>7.32 ft. msl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.00</td>
<td>1.88</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.61</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

| This Week's Avg | 0.00 | 1.74 |
| Pre-Project Avg | 0.69 | 1.54 |

#### Transition Zone Information

WCA-3A is in Zone A

<table>
<thead>
<tr>
<th>Supplemental discharge is</th>
<th>MAX cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance to Bottom of Current Zone</td>
<td>-0.39 feet</td>
</tr>
<tr>
<td>Distance to Top of Current Zone</td>
<td>N/A feet</td>
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#### Statistical Parameters

<table>
<thead>
<tr>
<th>Rainfall Formula Amount</th>
<th>751 cfs</th>
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<tbody>
<tr>
<td>Last Week's Rainfall Formula</td>
<td>914 cfs</td>
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<tr>
<td>Pre-Project Mean Discharge</td>
<td>29 cfs</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Rainfall Excess Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL1 -1.51</td>
</tr>
<tr>
<td>RL2 -0.01</td>
</tr>
<tr>
<td>RL3 -0.42</td>
</tr>
</tbody>
</table>

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
Historical Rain

Ave R in (c e)
Fall (C F)

3 -1000
2 1000
1 1500
0 2000
3 3000
4 4000
5

Actual vs. Historical Rainfall

Shark River Slough

Data Week Ending

Operational Week Starting

Actual Rain
Historical Rain

Deliveries to Shark River Slough
Computed by Rainfall Plan

Flow (CFS)

-1000
-500
0
500
1000
1500
2000
2500
3000
3500
4000

Minimum Delivery Schedule
Maximum Discharge
SRS Discharge from Rainfall Plan
Rainfall Formula Amount
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  April 26, 2016  to  May 2, 2016  MAX  cfs
S-12 Discharge  MAX  cfs
S-333 Discharge  MAX  cfs

------- Data Summary -------
April 16, 2016  to  April 22, 2016
WCA-3A Stage (end of week)  10.02  ft. msl
Angel's  6.76  ft. msl
G3273  7.25  ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.54</td>
<td>1.81</td>
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<tr>
<td>S-140</td>
<td></td>
<td>1.60</td>
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<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg  1.54  1.70
Pre-Project Avg  0.80  1.58

----- Transition Zone Information -----  
WCA-3A is in Zone  A  Discharge Coeff. (cfs/ft) =  N/A
Supplemental discharge is  MAX  cfs
Distance to Bottom of Current Zone  -0.28  feet
Distance to Top of Current Zone  N/A  feet

----- Statistical Parameters -----  
Rainfall Formula Amount  668  cfs
Last Week's Rainfall Formula  751  cfs
Pre-Project Mean Discharge  24  cfs

Rainfall Excess Terms
RL1  -0.21  RL2  -0.33  RL3  -1.10

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow May 3, 2016 to May 9, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

-------- Data Summary --------

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>9.78 ft. msl</td>
<td></td>
</tr>
<tr>
<td>Angel's</td>
<td>6.55 ft. msl</td>
<td></td>
</tr>
<tr>
<td>G3273</td>
<td>7.23 ft. msl</td>
<td></td>
</tr>
</tbody>
</table>

NEXRAD Rain for WCA-3A and S7 evaporation

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-140</td>
<td>0.06</td>
<td>1.53</td>
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<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.06 1.60
Pre-Project Avg 0.92 1.60

----- Transition Zone Information ----- WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A

Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.08 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- Rainfall Formula Amount 589 cfs
Last Week's Rainfall Formula 668 cfs
Pre-Project Mean Discharge 16 cfs

Rainfall Excess Terms

| RL1  | 0.22 |
| RL2  | -0.77 |
| RL3  | -1.01 |

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow May 10, 2016 to May 16, 2016

MAX cfs

S-12 Discharge
S-333 Discharge

------- Data Summary -------

April 30, 2016 to May 6, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A</td>
<td>1.90</td>
<td>1.58</td>
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<tr>
<td>and S7 evaporation</td>
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<td></td>
</tr>
<tr>
<td>S-140</td>
<td>1.46</td>
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<td>ENP</td>
<td>M</td>
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</table>

This Week's Avg 1.90 1.52
Pre-Project Avg 1.08 1.61

----- Transition Zone Information -----  
WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = N/A

Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.08 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters -----  
Rainfall Formula Amount 535 cfs
Last Week's Rainfall Formula 589 cfs
Pre-Project Mean Discharge 13 cfs

Rainfall Excess Terms

RL1 0.03  RL2 -0.55  RL3 -0.61

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow May 17, 2016 to May 23, 2016 1432 cfs

S-12 Discharge 644 cfs
S-333 Discharge 787 cfs

------- Data Summary ------- May 7, 2016 to May 13, 2016
WCA-3A Stage (end of week) 9.54 ft. msl
Angel's 7.25 ft. msl
G3273 7.41 ft. msl

Station Rainfall (in) Pan Evaporation (in)
NEXRAD Rain for WCA-3A and S7 evaporation 0.15 2.01

S-140 1.94

ENP M

This Week's Avg 0.15 1.98
Pre-Project Avg 1.21 1.62

----- Transition Zone Information ----- WCA-3A is in Zone E1 Discharge Coeff. (cfs/ft) = 2500
Supplemental discharge is 971 cfs
Distance to Bottom of Current Zone -0.39 feet
Distance to Top of Current Zone 0.06 feet

----- Statistical Parameters ----- Rainfall Formula Amount 461 cfs
Last Week's Rainfall Formula 535 cfs
Pre-Project Mean Discharge 12 cfs

Rainfall Excess Terms
RL1 -0.45 RL2 -1.73 RL3 -0.01

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  May 24, 2016  to  May 30, 2016  MAX  cfs
S-12 Discharge  MAX  cfs
S-333 Discharge  MAX  cfs

------- Data Summary -------  May 14, 2016  to  May 20, 2016
WCA-3A Stage (end of week)  9.57  ft. msl
Angel's  6.98  ft. msl
G3273  7.29  ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>4.23</td>
<td>1.77</td>
</tr>
<tr>
<td>S-140</td>
<td>1.26</td>
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<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg  4.23  1.51
Pre-Project Avg  1.43  1.61

----- Transition Zone Information -----  WCA-3A is in Zone A
Supplemental discharge is MAX  cfs
Distance to Bottom of Current Zone -0.01 feet
Distance to Top of Current Zone  N/A feet

----- Statistical Parameters -----  Discharge Coeff. (cfs/ft) = N/A
Rainfall Formula Amount  533 cfs
Last Week's Rainfall Formula  461 cfs
Pre-Project Mean Discharge  17 cfs
Rainfall Excess Terms

RL1  1.53  RL2  -0.18  RL3  -0.33

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
### WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow June 7, 2016 to June 13, 2016 MAX cfs

<table>
<thead>
<tr>
<th></th>
<th>MAX cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12 Discharge</td>
<td></td>
</tr>
<tr>
<td>S-333 Discharge</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Summary</th>
<th>May 28, 2016 to June 3, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>9.60 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.49 ft. msl</td>
</tr>
<tr>
<td>G3273</td>
<td>7.11 ft. msl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.51</td>
<td>1.61</td>
</tr>
<tr>
<td>S-140</td>
<td>1.49</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

| This Week's Avg | 1.51 |
| Pre-Project Avg | 1.67 |

| Transition Zone Information |
| WCA-3A is in Zone A |
| Discharge Coeff. (cfs/ft) = N/A |
| Supplemental discharge is MAX cfs |
| Distance to Bottom of Current Zone | -0.07 feet |
| Distance to Top of Current Zone | N/A feet |

| Statistical Parameters |
| Rainfall Formula Amount | 499 cfs |
| Last Week's Rainfall Formula | 602 cfs |
| Pre-Project Mean Discharge | 40 cfs |

| Rainfall Excess Terms |
| RL1 | -1.48 |
| RL2 | 1.56 |
| RL3 | -0.55 |

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
# WCA-3A RAINFALL-BASED MANAGEMENT PLAN

**Target Flow** June 14, 2016 to June 20, 2016  
**MAX cfs**

**S-12 Discharge**  
**MAX cfs**

**S-333 Discharge**  
**MAX cfs**

<table>
<thead>
<tr>
<th>Data Summary</th>
<th>June 4, 2016 to June 10, 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>9.67 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.00 ft. msl</td>
</tr>
<tr>
<td>G3273</td>
<td>7.01 ft. msl</td>
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<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>2.69</td>
<td>1.66</td>
</tr>
</tbody>
</table>

| S-140 | 1.37 |
| ENP | M |

<table>
<thead>
<tr>
<th></th>
<th>This Week's Avg</th>
<th>Pre-Project Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.69</td>
<td>1.83</td>
<td></td>
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<tr>
<td>1.52</td>
<td>1.55</td>
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<table>
<thead>
<tr>
<th>Transition Zone Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A is in Zone A</td>
</tr>
<tr>
<td>Discharge Coeff. (cfs/ft) = N/A</td>
</tr>
<tr>
<td>Supplemental discharge is MAX cfs</td>
</tr>
<tr>
<td>Distance to Bottom of Current Zone</td>
</tr>
<tr>
<td>Distance to Top of Current Zone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Statistical Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall Formula Amount</td>
</tr>
<tr>
<td>Last Week's Rainfall Formula</td>
</tr>
<tr>
<td>Pre-Project Mean Discharge</td>
</tr>
<tr>
<td>Rainfall Excess Terms</td>
</tr>
</tbody>
</table>

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
Historical Rain

Aerage Rainfall (Inches)

Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan

Data Week Ending

Operational Week Starting

Minimum Delivery Schedule
Maximum Discharge
SRS Discharge from Rainfall Plan
Rainfall Formula Amount
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  June 21, 2016  to  June 27, 2016  MAX  cfs
S-12 Discharge  MAX  cfs
S-333 Discharge  MAX  cfs

-------- Data Summary --------  June 11, 2016  to  June 17, 2016
WCA-3A Stage (end of week)  9.66  ft. msl
Angel's  5.71  ft. msl
G3273  6.87  ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.23</td>
<td>1.48</td>
</tr>
</tbody>
</table>

This Week's Avg  1.23  1.56
Pre-Project Avg  1.98  1.51

----- Transition Zone Information -----  Discharge Coeff. (cfs/ft) = N/A
WCA-3A is in Zone  A  Supplemental discharge is  MAX  cfs
Distance to Bottom of Current Zone  -0.04  feet
Distance to Top of Current Zone  N/A  feet

----- Statistical Parameters -----  Rainfall Formula Amount  518  cfs
Last Week's Rainfall Formula  535  cfs
Pre-Project Mean Discharge  75  cfs

Rainfall Excess Terms
RL1  0.10
RL2  0.06
RL3  -0.18

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow June 28, 2016 to July 4, 2016

MAX cfs

S-12 Discharge
S-333 Discharge

------- Data Summary -------

June 18, 2016 to June 24, 2016

WCA-3A Stage (end of week) 9.67 ft. msl
Angel's 6.41 ft. msl
G3273 6.91 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain</td>
<td>1.66</td>
<td>1.64</td>
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<tr>
<td>for WCA-3A</td>
<td></td>
<td></td>
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<tr>
<td>and S7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>evaporation</td>
<td></td>
<td></td>
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<tr>
<td>S-140</td>
<td>1.57</td>
<td></td>
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<td>ENP</td>
<td>M</td>
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This Week's Avg 1.66 1.60
Pre-Project Avg 2.10 1.49

----- Transition Zone Information ----- 

WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.01 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- 

Rainfall Formula Amount 448 cfs
Last Week's Rainfall Formula 518 cfs
Pre-Project Mean Discharge 94 cfs

Rainfall Excess Terms
RL1 -1.32
RL2 2.29
RL3 -0.67

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow July 5, 2016 to July 11, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

-------- Data Summary --------
June 25, 2016 to July 1, 2016
WCA-3A Stage (end of week) 9.88 ft. msl
Angel's 6.47 ft. msl
G3273 6.93 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>2.69</td>
<td>1.48</td>
</tr>
<tr>
<td>S-140</td>
<td>1.75</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
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</table>

This Week's Avg 2.69 1.62
Pre-Project Avg 2.05 1.45

----- Transition Zone Information ----- WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.17 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- Rainfall Formula Amount 446 cfs
Last Week's Rainfall Formula 448 cfs
Pre-Project Mean Discharge 111 cfs

Rainfall Excess Terms
RL1 -0.02
RL2 -1.38
RL3 1.56

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow July 12, 2016 to July 18, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

------- Data Summary -------

July 2, 2016 to July 8, 2016

WCA-3A Stage (end of week) 9.86 ft. msl
Angel's 5.95 ft. msl
G3273 6.86 ft. msl

Station Rainfall (in) Pan Evaporation (in)
NEXRAD Rain for WCA-3A and S7 evaporation 0.41 1.52

S-140 1.68
ENP M

This Week's Avg 0.41 1.60
Pre-Project Avg 1.93 1.45

----- Transition Zone Information ----- WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone 0.11 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- Rainfall Formula Amount 383 cfs
Last Week's Rainfall Formula 446 cfs
Pre-Project Mean Discharge 128 cfs

Rainfall Excess Terms
RL1 -1.13 RL2 -0.56 RL3 1.07

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
## WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow: July 19, 2016 to July 25, 2016

### MAX cfs Discharge
- **S-12 Discharge**: MAX cfs
- **S-333 Discharge**: MAX cfs

### Data Summary

#### July 9, 2016 to July 15, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.87</td>
<td>1.66</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.69</td>
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<tr>
<td>ENP</td>
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<td>M</td>
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<table>
<thead>
<tr>
<th></th>
<th>This Week's Avg</th>
<th>Pre-Project Avg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rainfall (in)</td>
<td>0.87</td>
<td>1.95</td>
</tr>
<tr>
<td>Pan Evaporation (in)</td>
<td>1.68</td>
<td>1.43</td>
</tr>
</tbody>
</table>

### Transition Zone Information

- **WCA-3A is in Zone A**: MAX cfs
- **Discharge Coeff. (cfs/ft)**: N/A
- **Supplemental discharge is**: MAX cfs
- **Distance to Bottom of Current Zone**: -0.01 feet
- **Distance to Top of Current Zone**: N/A feet

### Statistical Parameters

- **Rainfall Formula Amount**: 227 cfs
- **Last Week's Rainfall Formula**: 383 cfs
- **Pre-Project Mean Discharge**: 148 cfs
- **Rainfall Excess Terms**
  - RL1: -2.92
  - RL2: 0.07
  - RL3: 0.06

**COMMENT**: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE**: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow  July 26, 2016  to  August 1, 2016  2260 cfs

S-12 Discharge  1017 cfs
S-333 Discharge  1243 cfs

------- Data Summary -------

WCA-3A Stage (end of week)  July 16, 2016  to  July 22, 2016
Angel's  6.07 ft. msl
G3273  6.82 ft. msl

Station
NEXRAD Rain for WCA-3A and S7 evaporation
Rainfall (in)  Pan Evaporation (in)

S-140  1.37  1.34
ENP  M

This Week's Avg  1.37  1.63
Pre-Project Avg  1.92  1.42

----- Transition Zone Information ----- WCA-3A is in Zone D
Discharge Coeff. (cfs/ft) = 5000
Supplemental discharge is  2110 cfs
Distance to Bottom of Current Zone  -0.42 feet
Distance to Top of Current Zone  0.07 feet

----- Statistical Parameters ----- Rainfall Formula Amount  151 cfs
Last Week's Rainfall Formula  227 cfs
Pre-Project Mean Discharge  162 cfs

Rainfall Excess Terms
RL1 -2.00  RL2 -2.46  RL3 2.29

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan

Computed by Rainfall Plan

Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan

Computed by Rainfall Plan
**WCA-3A RAINFALL-BASED MANAGEMENT PLAN**

Target Flow August 2, 2016 to August 8, 2016  1947 cfs

S-12 Discharge  876 cfs  
S-333 Discharge  1071 cfs

-------- Data Summary --------

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>9.78 ft. msl</td>
<td>9.78 ft. msl</td>
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<tr>
<td>Angel's</td>
<td>6.02 ft. msl</td>
<td>6.02 ft. msl</td>
</tr>
<tr>
<td>G3273</td>
<td>6.81 ft. msl</td>
<td>6.81 ft. msl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.82</td>
<td>2.31</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.21</td>
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<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.82 1.76
Pre-Project Avg 1.83 1.42

----- Transition Zone Information -----  
WCA-3A is in Zone **D**  
Discharge Coeff. (cfs/ft) = **5000**

Supplemental discharge is 1887 cfs  
Distance to Bottom of Current Zone -0.38 feet  
Distance to Top of Current Zone 0.11 feet

----- Statistical Parameters -----  
Rainfall Formula Amount 60 cfs  
Last Week's Rainfall Formula 151 cfs  
Pre-Project Mean Discharge 175 cfs

Rainfall Excess Terms  
RL1 -2.00  
RL2 -2.94  
RL3 -1.38

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Historical Rain

Shark River Slough
Actual vs. Historical Rainfall

Data Week Ending

Deliveries to Shark River Slough
Computed by Rainfall Plan

Operational Week Starting

Minimum Delivery Schedule
Maximum Discharge
SRS Discharge from Rainfall Plan
Rainfall Formula Amount
## WCA-3A RAINFALL-BASED MANAGEMENT PLAN

### Target Flow

- **S-12 Discharge**: August 9, 2016 to August 15, 2016
- **S-333 Discharge**: MAX cfs

### Data Summary

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7</td>
<td>3.93</td>
<td>1.81</td>
</tr>
<tr>
<td>S-140</td>
<td>0.97</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

### Statistical Parameters

- **Rainfall Formula Amount**: 148 cfs
- **Last Week's Rainfall Formula**: 60 cfs
- **Pre-Project Mean Discharge**: 185 cfs

- **Rainfall Excess Terms**:
  - RL1: 0.95
  - RL2: -3.13
  - RL3: -0.56

**COMMENT**: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE**: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow August 16, 2016 to August 22, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

------- Data Summary -------

WCA-3A Stage (end of week) August 6, 2016 to August 12, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>2.94</td>
<td>1.36</td>
</tr>
<tr>
<td>S-140</td>
<td>1.79</td>
<td></td>
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<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg 2.94
Pre-Project Avg 1.70

----- Transition Zone Information -----  
WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.05 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters -----  
Rainfall Formula Amount 401 cfs
Last Week's Rainfall Formula 148 cfs
Pre-Project Mean Discharge 199 cfs

Rainfall Excess Terms
RL1 3.32
RL2 -4.92
RL3 0.07

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow August 23, 2016 to August 29, 2016 MAX cfs
S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

------- Data Summary ------- August 13, 2016 to August 19, 2016
WCA-3A Stage (end of week) 10.03 ft. msl
Angel's 6.31 ft. msl
G3273 7.07 ft. msl

Station Rainfall (in) Pan Evaporation (in)
NEXRAD Rain for WCA-3A and S7 evaporation 0.81 1.82

S-140 1.75
ENP M

This Week's Avg 0.81 1.78
Pre-Project Avg 1.73 1.40

----- Transition Zone Information ----- WCA-3A is in Zone A Discharge Coeff. (cfs/ft) = N/A
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone 0.00 feet
Distance to Top of Current Zone N/A feet

----- Statistical Parameters ----- Rainfall Formula Amount 399 cfs
Last Week's Rainfall Formula 401 cfs
Pre-Project Mean Discharge 223 cfs

Rainfall Excess Terms
RL1 -0.13 RL2 -1.05 RL3 -2.46

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow August 30, 2016 to September 5, 2016

| S-12 Discharge | MAX | cfs |
| S-333 Discharge | MAX | cfs |

-----Data Summary-----
August 20, 2016 to August 26, 2016

WCA-3A Stage (end of week) 10.20 ft. msl
Angel’s 6.43 ft. msl
G-3273 7.02 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.99</td>
<td>1.64</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.69</td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg 1.99 1.66
Pre-Project Avg 1.89 1.36

-----Transition Zone Information-----
WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = MAX
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.12 feet
Distance to Top of Current Zone N/A feet

-----Statistical Parameters-----
Rainfall Formula Amount 357 cfs
Last Week's Rainfall Formula 399 cfs
Pre-project Mean Discharge 257 cfs

Rainfall Excess Terms
RL1 -1.37
RL2 1.31
RL3 -2.94

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
### WCA-3A RAINFALL-BASED MANAGEMENT PLAN

#### Target Flow
- **September 6, 2016**
- **to September 12, 2016**

<table>
<thead>
<tr>
<th>Discharge</th>
<th>MAX</th>
<th>cfs</th>
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</thead>
<tbody>
<tr>
<td>S-12</td>
<td>MAX</td>
<td>cfs</td>
</tr>
<tr>
<td>S-333</td>
<td>MAX</td>
<td>cfs</td>
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#### Data Summary
- **August 27, 2016**
- **to September 2, 2016**

<table>
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<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>2.55</td>
<td>1.45</td>
</tr>
<tr>
<td>S-140</td>
<td>1.10</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

| This Week's Avg | 2.55 | 1.27 |
| Pre-Project Avg | 1.90  | 1.34 |

#### Transition Zone Information
- **WCA-3A is in Zone A**
- **Discharge Coeff. (cfs/ft) = MAX**

- Supplemental discharge is MAX cfs
- Distance to Bottom of Current Zone: -0.38 feet
- Distance to Top of Current Zone: N/A feet

#### Statistical Parameters
- Rainfall Formula Amount: 448 cfs
- Last Week's Rainfall Formula: 357 cfs
- Pre-project Mean Discharge: 310 cfs

Rainfall Excess Terms:
- RL1: 0.56
- RL2: 0.82
- RL3: -3.14

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan
WCA-3A RAINFOIL-BASED MANAGEMENT PLAN

Target Flow September 13, 2016 to September 19, 2016

S-12 Discharge  MAX   cfs
S-333 Discharge  MAX   cfs

-----Data Summary-----

<table>
<thead>
<tr>
<th>Station Description</th>
<th>September 3, 2016 to September 9, 2016</th>
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<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.70 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.64 ft. msl</td>
</tr>
<tr>
<td>G-3273</td>
<td>7.33 ft. msl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.96</td>
<td>1.35</td>
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<tr>
<td>S-140</td>
<td></td>
<td>1.50</td>
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<td>ENP</td>
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<td>M</td>
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This Week's Avg 1.96 1.42
Pre-Project Avg 2.00 1.31

-----Transition Zone Information-----

WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = MAX cfs
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone N/A feet
Distance to Top of Current Zone -0.53 feet

-----Statistical Parameters-----

Rainfall Formula Amount 569 cfs
Last Week's Rainfall Formula 448 cfs
Pre-project Mean Discharge 385 cfs

Rainfall Excess Terms
RL1 0.57
RL2 1.96
RL3 -4.93

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAiNFALL-BASED MANAGEMENT PLAN

Target Flow September 20, 2016 to September 26, 2016

<table>
<thead>
<tr>
<th></th>
<th>MAX</th>
<th>cfs</th>
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<tbody>
<tr>
<td>S-12 Discharge</td>
<td>MAX</td>
<td>cfs</td>
</tr>
<tr>
<td>S-333 Discharge</td>
<td>MAX</td>
<td>cfs</td>
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-----Data Summary-----

<table>
<thead>
<tr>
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<th>September 10, 2016 to September 16, 2016</th>
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<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.80 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.74 ft. msl</td>
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<tr>
<td>G-3273</td>
<td>7.37 ft. msl</td>
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<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.57</td>
<td>1.58</td>
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<tr>
<td>S-140</td>
<td>1.49</td>
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<td>ENP</td>
<td>M</td>
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This Week's Avg 1.57 1.54
Pre-Project Avg 2.16 1.27

-----Transition Zone Information-----

WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = MAX

<table>
<thead>
<tr>
<th></th>
<th>MAX</th>
<th>cfs</th>
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<tbody>
<tr>
<td>Supplemental discharge is</td>
<td>MAX</td>
<td>cfs</td>
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<tr>
<td>Distance to Bottom of Current Zone</td>
<td>-0.59</td>
<td>feet</td>
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<tr>
<td>Distance to Top of Current Zone</td>
<td>N/A</td>
<td>feet</td>
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-----Statistical Parameters-----

<table>
<thead>
<tr>
<th></th>
<th>MAX</th>
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<tbody>
<tr>
<td>Rainfall Formula Amount</td>
<td>662 cfs</td>
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<tr>
<td>Last Week’s Rainfall Formula</td>
<td>569 cfs</td>
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<tr>
<td>Pre-project Mean Discharge</td>
<td>540 cfs</td>
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<tr>
<td>Rainfall Excess Terms</td>
<td>RL1 -0.93, RL2 0.43, RL3 -1.05</td>
</tr>
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COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Target Flow September 27, 2016 to October 3, 2016

S-12 Discharge MAX cfs
S-333 Discharge MAX cfs

-----Data Summary-----
September 17, 2016 to September 23, 2016
WCA-3A Stage (end of week) 10.77 ft. msl
Angel’s 6.95 ft. msl
G-3273 7.42 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.09</td>
<td>1.24</td>
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<tr>
<td>S-140</td>
<td>1.15</td>
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<td>ENP</td>
<td>M</td>
<td></td>
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</table>

This Week’s Avg 1.09 1.20
Pre-Project Avg 2.07 1.25

-----Transition Zone Information-----
WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = MAX

Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.51 feet
Distance to Top of Current Zone N/A feet

-----Statistical Parameters-----

<table>
<thead>
<tr>
<th>Rainfall Formulas</th>
<th>Amount</th>
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<tbody>
<tr>
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<td>811 cfs</td>
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<tr>
<td>Last Week's Rainfall Formula</td>
<td>662 cfs</td>
</tr>
<tr>
<td>Pre-project Mean Discharge</td>
<td>779 cfs</td>
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</table>

Rainfall Excess Terms

<table>
<thead>
<tr>
<th>RL1</th>
<th>RL2</th>
<th>RL3</th>
</tr>
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<tbody>
<tr>
<td>-1.74</td>
<td>-0.80</td>
<td>1.31</td>
</tr>
</tbody>
</table>

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow October 4, 2016 to October 10, 2016

<table>
<thead>
<tr>
<th>Station</th>
<th>WCA-3A Stage (end of week)</th>
<th>Angel's</th>
<th>G-3273</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ft. msl</td>
<td>ft. msl</td>
<td>ft. msl</td>
</tr>
<tr>
<td>September 24, 2016</td>
<td>10.71</td>
<td>6.95</td>
<td>7.42</td>
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----Data Summary-----

<table>
<thead>
<tr>
<th>Station Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
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<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.29</td>
</tr>
<tr>
<td>S-140</td>
<td>1.40</td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
</tr>
</tbody>
</table>

This Week’s Avg 1.29 1.15
Pre-Project Avg 1.88 1.21

-----Transition Zone Information-----

WCA-3A is in Zone A

Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.41 feet
Distance to Top of Current Zone N/A feet

-----Statistical Parameters-----

Rainfall Formula Amount 954 cfs
Last Week’s Rainfall Formula 811 cfs
Pre-project Mean Discharge 995 cfs

Rainfall Excess Terms
RL1 -1.48
RL2 -0.37
RL3 0.82

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.
Shark River Slough
Actual vs. Historical Rainfall

Actual Rain
Historical Rain

 Deliveries to Shark River Slough
Computed by Rainfall Plan

Minimum Delivery Schedule
Maximum Discharge
SRS Discharge from Rainfall Plan
Rainfall Formula Amount
**WCA-3A RAINFALL-BASED MANAGEMENT PLAN**

Target Flow October 11, 2016 to October 17, 2016  MAX cfs

S-12 Discharge  MAX cfs
S-333 Discharge  MAX cfs

-----Data Summary-----

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>1.96</td>
<td>1.27</td>
</tr>
<tr>
<td>S-140</td>
<td>1.82</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week’s Avg 1.96 1.55
Pre-Project Avg 1.67 1.16

-----Transition Zone Information-----

WCA-3A is in Zone A
Discharge Coeff. (cfs/ft) = MAX
Supplemental discharge is MAX cfs
Distance to Bottom of Current Zone -0.47 feet
Distance to Top of Current Zone N/A feet

-----Statistical Parameters-----

Rainfall Formula Amount 1081 cfs
Last Week’s Rainfall Formula 954 cfs
Pre-project Mean Discharge 1130 cfs
Rainfall Excess Terms
RL1 -0.56 RL2 -1.17 RL3 1.96

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
## WCA-3A RAINEFFAL-BASED MANAGEMENT PLAN

<table>
<thead>
<tr>
<th>Target Flow</th>
<th>October 18, 2016 to October 24, 2016</th>
<th>MAX cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12 Discharge</td>
<td></td>
<td>MAX cfs</td>
</tr>
<tr>
<td>S-333 Discharge</td>
<td></td>
<td>MAX cfs</td>
</tr>
</tbody>
</table>

### Data Summary

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.74</td>
<td>ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.38</td>
<td>ft. msl</td>
</tr>
<tr>
<td>G-3273</td>
<td>7.30</td>
<td>ft. msl</td>
</tr>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.37</td>
<td>1.29</td>
</tr>
<tr>
<td>S-140</td>
<td></td>
<td>1.70</td>
</tr>
<tr>
<td>ENP</td>
<td></td>
<td>M</td>
</tr>
</tbody>
</table>

This Week's Avg 0.37 1.49
Pre-Project Avg 1.38 1.12

### Transition Zone Information

WCA-3A is in Zone A

<table>
<thead>
<tr>
<th>Discharge Coeff. (cfs/ft)</th>
<th>MAX cfs</th>
</tr>
</thead>
</table>

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

<table>
<thead>
<tr>
<th>Target Flow October 25, 2016 to October 31, 2016</th>
<th>MAX cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12 Discharge</td>
<td>MAX</td>
</tr>
<tr>
<td>S-333 Discharge</td>
<td>MAX</td>
</tr>
</tbody>
</table>

-----Data Summary-----

<table>
<thead>
<tr>
<th>October 15, 2016 to October 21, 2016</th>
<th>ft. msl</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.70</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.24</td>
</tr>
<tr>
<td>G-3273</td>
<td>7.28</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.62</td>
<td>1.16</td>
</tr>
<tr>
<td>S-140</td>
<td>1.48</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg 0.62 1.32
Pre-Project Avg 1.19 1.06

-----Transition Zone Information-----

WCA-3A is in Zone A

<table>
<thead>
<tr>
<th>Discharge Coeff. (cfs/ft) = MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental discharge is MAX cfs</td>
</tr>
<tr>
<td>Distance to Bottom of Current Zone</td>
</tr>
<tr>
<td>Distance to Top of Current Zone</td>
</tr>
</tbody>
</table>

-----Statistical Parameters-----

| Rainfall Formula Amount | 1012 cfs |
| Last Week's Rainfall Formula | 1120 cfs |
| Pre-project Mean Discharge | 1220 cfs |

Rainfall Excess Terms

RL1 -2.09  RL2 -2.30  RL3 -0.80

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
Shark River Slough
Actual vs. Historical Rainfall

Deliveries to Shark River Slough
Computed by Rainfall Plan

- Minimum Delivery Schedule
- Maximum Discharge
- SRS Discharge from Rainfall Plan
- Rainfall Formula Amount
### WCA-3A RAINFOLL-BASED MANAGEMENT PLAN

**Target Flow November 1, 2016 to November 7, 2016**

<table>
<thead>
<tr>
<th>Discharge</th>
<th>MAX</th>
<th>cfs</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-333</td>
<td></td>
<td></td>
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</table>

**-----Data Summary-----**

<table>
<thead>
<tr>
<th>Stage/Location</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCA-3A Stage (end of week)</td>
<td>10.61 ft. msl</td>
</tr>
<tr>
<td>Angel's</td>
<td>6.41 ft. msl</td>
</tr>
<tr>
<td>G-3273</td>
<td>7.26 ft. msl</td>
</tr>
</tbody>
</table>

**Station**

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.31</td>
<td>1.21</td>
</tr>
<tr>
<td>S-140</td>
<td>1.28</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg | 0.31 | 1.25 |
Pre-Project Avg | 0.92 | 1.02 |

**-----Transition Zone Information-----**

WCA-3A is in Zone A

<table>
<thead>
<tr>
<th>Discharge Coeff. (cfs/ft)</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental discharge is</td>
<td></td>
</tr>
<tr>
<td>Distance to Bottom of Current Zone</td>
<td>-0.12 feet</td>
</tr>
<tr>
<td>Distance to Top of Current Zone</td>
<td>N/A feet</td>
</tr>
</tbody>
</table>

**-----Statistical Parameters-----**

<table>
<thead>
<tr>
<th>Rainfall Formula Amount</th>
<th>814 cfs</th>
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</thead>
<tbody>
<tr>
<td>Last Week's Rainfall Formula</td>
<td>1012 cfs</td>
</tr>
<tr>
<td>Pre-project Mean Discharge</td>
<td>1084 cfs</td>
</tr>
</tbody>
</table>

Rainfall Excess Terms

| RL1 | -1.57 |
| RL2 | -2.81 |
| RL3 | -0.37 |

**COMMENT:** S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

**NOTE:** Actual discharges may vary from target discharges because of changing hydrologic conditions.
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow November 8, 2016 to November 14, 2016 2990 cfs

S-12 Discharge 1345 cfs
S-333 Discharge 1644 cfs

-----Data Summary----- October 29, 2016 to November 4, 2016
WCA-3A Stage (end of week) 10.50 ft. msl
Angel’s 6.14 ft. msl
G-3273 7.24 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.23</td>
<td>1.01</td>
</tr>
<tr>
<td>S-140</td>
<td>1.69</td>
<td></td>
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<tr>
<td>ENP</td>
<td>M</td>
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</tr>
</tbody>
</table>

This Week's Avg 0.23 1.35
Pre-Project Avg 0.56 0.97

-----Transition Zone Information-----
WCA-3A is in Zone D
Discharge Coeff. (cfs/ft) = 5000

Supplemental discharge is 2373 cfs
Distance to Bottom of Current Zone -0.47 feet
Distance to Top of Current Zone 0.00 feet

-----Statistical Parameters-----
Rainfall Formula Amount 617 cfs
Last Week’s Rainfall Formula 814 cfs
Pre-project Mean Discharge 937 cfs

Rainfall Excess Terms
RL1 -1.43
RL2 -2.65
RL3 -1.17

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow November 15, 2016 to November 21, 2016 1821 cfs

S-12 Discharge 819 cfs
S-333 Discharge 1001 cfs

-----Data Summary -----
November 5, 2016 to November 11, 2016

WCA-3A Stage (end of week) 10.34 ft. msl
Angel’s 5.93 ft. msl
G-3273 7.16 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.03</td>
<td>1.04</td>
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<tr>
<td>S-140</td>
<td></td>
<td>1.12</td>
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<td>ENP</td>
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<td>M</td>
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</table>

This Week’s Avg 0.03 1.08
Pre-Project Avg 0.40 0.91

-----Transition Zone Information ----- WCA-3A is in Zone D
Discharge Coeff. (cfs/ft) = 5000

Supplemental discharge is 1350 cfs
Distance to Bottom of Current Zone -0.27 feet
Distance to Top of Current Zone 0.16 feet

-----Statistical Parameters ----- Rainfall Formula Amount 470 cfs
Last Week’s Rainfall Formula 617 cfs
Pre-project Mean Discharge 820 cfs

Rainfall Excess Terms RL1 -1.14 RL2 -2.90 RL3 -2.41

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*
WCA-3A RAINFALL-BASED MANAGEMENT PLAN

Target Flow November 22, 2016 to November 28, 2016 760 cfs

S-12 Discharge 342 cfs
S-333 Discharge 418 cfs

-----Data Summary-----
November 12, 2016 to November 18, 2016
WCA-3A Stage (end of week) 10.20 ft. msl
Angel’s 5.86 ft. msl
G-3273 7.05 ft. msl

<table>
<thead>
<tr>
<th>Station</th>
<th>Rainfall (in)</th>
<th>Pan Evaporation (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXRAD Rain for WCA-3A and S7 evaporation</td>
<td>0.02</td>
<td>0.83</td>
</tr>
<tr>
<td>S-140</td>
<td>0.81</td>
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</tr>
<tr>
<td>ENP</td>
<td>M</td>
<td></td>
</tr>
</tbody>
</table>

This Week's Avg 0.02 0.82
Pre-Project Avg 0.32 0.87

-----Transition Zone Information-----
WCA-3A is in Zone D
Discharge Coeff. (cfs/ft) = 5000
Supplemental discharge is 428 cfs
Distance to Bottom of Current Zone -0.09 feet
Distance to Top of Current Zone 0.30 feet

-----Statistical Parameters-----
Rainfall Formula Amount 332 cfs
Last Week's Rainfall Formula 470 cfs
Pre-project Mean Discharge 689 cfs
Rainfall Excess Terms
RL1 -0.77
RL2 -3.51
RL3 -2.30

COMMENT: S7 estimated evap data and S140 estimated evap data were used. ENP evap data were missing.

*NOTE: Actual discharges may vary from target discharges because of changing hydrologic conditions.*