

**Crystal River/Kings Bay Basin Management Action Plan**  
**Source Reduction Projects by Stakeholder - As of March 29, 2017**

| Lead Entity   | Priority Ranking | Project Number | Project Name                                                                | Project Description                                                                                                                                                                                                           | Project Type               | Status    | Start Date | Estimated Completion Date | Estimated Nutrient Load Reduction (lbs-N/yr) | Cost Estimate | Funding Source | Funding Amount                           |
|---------------|------------------|----------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------|------------|---------------------------|----------------------------------------------|---------------|----------------|------------------------------------------|
| Citrus County | High             | CC-1           | Public Education Activities                                                 | Fertilizer ordinance; implementation of Florida Yards & Neighborhood Program; and website, public service announcements, brochures, etc.                                                                                      | Education Efforts          | Underway  | 2016       |                           |                                              |               | County         |                                          |
| Citrus County | High             | CC-2           | Citrus Springs Force Main                                                   | Construction of a force main from the Citrus Springs Wastewater Treatment Plant (WWTP) to the Meadowcrest Wastewater Treatment Facility (WWTF).                                                                               | Wastewater Management      | Completed | 2015       | 2016                      |                                              | \$ 2,300,000  | County         | County: \$2,300,000                      |
| Citrus County | High             | CC-3           | Fort Island Trail Force Main                                                | Constructed seven miles of eight inch force main along Fort Island Trail corridor that connects to the Meadowcrest WWTF that will enable up to 250 septic systems to send flows once systems are connected to the force main. | Septic Replacement         | Completed | 2013       | 2015                      |                                              | \$ 2,000,000  | County/SFWMD   | County:\$1 million<br>SFWMD: \$1 million |
| Citrus County | High             | CC-4           | Hunter Springs Water Quality                                                | Expansion of an existing water quality treatment area at the intersection of NE 2nd Street and NE 3rd Avenue to reduce total nitrogen released into Kings Bay.                                                                | Stormwater Management      | Completed | 2013       | 2015                      | 29                                           | \$ 350,000    | County/SFWMD   | County: \$175,000<br>SFWMD: \$175,000    |
| Citrus County | High             | CC-5           | Fort Island Trail Septic to Sewer (Montezuma, Crystal Shores, Dixie Shores) | Design and construction of gravity sewer lines, force mains, lift stations, and lateral connections to connect 250 septic systems to central sewer.                                                                           | Septic Replacement         | Underway  | 2016       | 2018                      | 1,924                                        | \$ 2,200,000  | DEP            | DEP: \$2,200,000                         |
| Citrus County | High             | CC-6           | Phase 1 Package Plant Interconnections                                      | Provide connection of the Crystal Isle RV and River Cove Landing communities to central sewer and decommission the individual package plants.                                                                                 | Septic Replacement         | Underway  | 2016       | 2018                      | 284                                          | \$ 570,000    | DEP            | DEP: \$570,000                           |
| Citrus County | High             | CC-7           | Phase 2 Package Plant Interconnections                                      | Provide connection of the Pelican Bay, Imperial Gardens, and Forest View communities to central sewer and decommission the individual package plants.                                                                         | Septic Replacement         | Underway  | 2017       | 2019                      | 196                                          | \$ 860,000    | DEP            | DEP:\$860,000                            |
| Citrus County | High             | CC-8           | Phase 3 Package Interconnections                                            | Provide connection of the Belle Villa and Stonebrook communities to central sewer and decommission the individual package plants.                                                                                             | Septic Replacement         | Underway  | 2017       | 2019                      | 132                                          | \$ 570,000    | DEP            | DEP: \$570,000                           |
| Citrus County | High             | CC-9           | Duke Energy Reclaimed Water Interconnection, Phase 1                        | Construction of a reclaimed water line from the Meadowcrest WWTF to the City of Crystal River's reclaimed line that provides reclaimed water to the Duke Energy complex.                                                      | Reclaimed Water Management | Underway  | 2016       | 2019                      | 13,000                                       | \$ 6,573,625  | County/DEP     | DEP: \$4,290,000<br>County: \$2,283,625  |
| Citrus County | High             | CC-10          | Duke Energy Reclaimed Water Interconnection, Phase 2                        | Construction of a reclaimed water line connecting the Southwest Regional Water Reclamation Facility to the Phase 1 Duke Energy reclaimed water line.                                                                          | Reclaimed Water Management | Planned   | 2018       | 2019                      |                                              | \$ 6,000,000  | County/DEP     | DEP: \$3,000,000<br>County: \$3,000,000  |
| Citrus County | High             | CC-11          | Duke Energy Reclaimed Water Interconnection, Phase 3                        | Construction of a reclaimed water line connecting the Brentwood WWTF to the Phase 1 Duke Energy reclaimed water line.                                                                                                         | Reclaimed Water Management | Planned   | 2019       | 2020                      |                                              | \$ 5,600,000  | County/DEP     | DEP: \$2,800,000<br>County: \$2,800,000  |

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| Citrus County                                  | High             | CC-12          | Northwest Quadrant Wastewater Extension                                          | Construction of gravity sewer and force main to connect septic systems and private package plants to central sewer in the northwest quadrant of the county.                                                        | Septic Replacement       | Planned   | 2020          | 2021                      |                                              | \$ 6,000,000  | County/DEP     | DEP: \$3,000,000<br>County: \$3,000,000                   |
| Citrus County                                  | High             | CC-13          | C.R. 491 Regional Stormwater Facility                                            | Construction of a regional stormwater pond and water retention areas to treat approximately 31 acres of watershed.                                                                                                 | Stormwater Management    | Underway  | 2016          | 2018                      | 59                                           | \$ 358,500    | County/SFWMD   | County: \$179,250<br>SFWMD: \$179,250                     |
| Citrus County                                  | High             | CC-14          | C.R. 491 Regional Stormwater Project Phase I                                     | Phase I includes construction of regional stormwater drainage retention areas from Laurel Street to south of Audubon Park.                                                                                         | Stormwater Management    | Underway  | 2015          | 2018                      |                                              | \$ 7,083,000  | County/FDOT    |                                                           |
| Citrus County                                  | Medium           | CC-15          | C.R. 491 Regional Stormwater Project Phase II                                    | Phase II includes construction of regional stormwater drainage retention areas from Audubon Park to west of Horace Allen Street.                                                                                   | Stormwater Management    | Planned   | 2019          | 2021                      |                                              | \$ 4,838,000  | County/SFWMD   | County: \$2,419,000<br>SFWMD: \$2,419,000                 |
| Citrus County                                  | Medium           | CC-16          | C.R. 491 Regional Stormwater Project Phase III                                   | Implementation/installation of advanced water quality treatment elements in regional drainage retention areas.                                                                                                     | Stormwater Management    | Planned   | 2022          | 2024                      |                                              | \$ 9,000,000  | County/SFWMD   | County: \$4,500,000<br>SFWMD: \$4,500,000                 |
| City of Crystal River                          | High             | CR-1           | Areas 112 and 113 Central Sewer                                                  | Installation of central sewer to remove approximately 204 septic systems.                                                                                                                                          | Septic Replacement       | Completed | Prior to 2012 | 2012                      | 4,513                                        | \$ 3,776,508  | City/DEP       |                                                           |
| City of Crystal River                          | High             | CR-2           | Harbor Isle Central Sewer                                                        | Installation of central sewer to remove approximately 18 septic systems.                                                                                                                                           | Septic Replacement       | Completed | Prior to 2012 | 2012                      | 398                                          | \$ 299,799    | City/DEP       |                                                           |
| City of Crystal River                          | High             | CR-3           | Area 114 Central Sewer                                                           | Installation of central sewer to remove approximately 183 septic systems.                                                                                                                                          | Septic Replacement       | Completed | 2012          | 2014                      | 4,048                                        | \$ 4,153,932  | City/DEP       |                                                           |
| City of Crystal River                          | High             | CR-4           | Duke Energy Reclaimed Water Project                                              | Design and construction of transmission mains, 1.5 million gallon storage tank, filtration and pumping infrastructure to provide reclaimed water from the city to the Duke Energy complex.                         | Wastewater Management    | Completed | 2012          | 2015                      |                                              | \$ 6,228,712  | City/DEP/SFWMD | City:\$2,555,485<br>DEP:\$1,117,742<br>SFWMD: \$2,555,485 |
| City of Crystal River/Save Crystal River, Inc. | High             | CR-5           | Kings Bay Pilot Vacuum Dredge                                                    | Pilot project in two private canals in the Hunters Cove area of northeastern Kings Bay to remove accumulated sediment and revegetate with native eelgrass.                                                         | Surface Water Management | Underway  | 2016          | 2017                      |                                              | \$ 1,600,000  | DEP            | DEP:\$1,600,000                                           |
| City of Crystal River                          | High             | CR-6           | Hunter Springs Park Living Shoreline                                             | Pilot project that added wetland vegetation between the water and land to treat stormwater runoff inputs to the spring.                                                                                            | Surface Water Management | Completed | 2014          | 2016                      |                                              | \$ 600,000    | SFWMD          | SFWMD: \$600,000                                          |
| City of Crystal River                          | High             | CR-7           | Kings Bay Stormwater Project Phase I                                             | Design, permit, and construction of stormwater improvements to reduce stormwater pollution draining to Kings Bay.                                                                                                  | Stormwater Management    | Completed | 2015          | 2016                      |                                              | \$ 500,000    | City/SFWMD     | City: \$250,000<br>SFWMD: \$250,000                       |
| City of Crystal River                          | High             | CR-8           | Septic to Aerobic at Crystal River State Park and facilities off State Park Road | Design, permit, and remove existing septic systems and connect the state park to the city's sewer system. The project will have the capacity to add future septic systems from neighboring waterfront communities. | Septic Replacement       | Underway  | 2016          | 2019                      | 100                                          | \$ 850,000    | DEP            | DEP: \$850,000                                            |

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| City of Crystal River                                 | High             | CR-9           | Indian Waters Sewer Expansion Phase I                                        | Installation of central sewer to remove approximately 95 septic systems.                                                                                                                    | Septic Replacement       | Underway  | 2016       | 2018                      | 1,870                                        | \$ 1,000,000  | City/DEP       | DEP: \$900,000<br>City: \$100,000   |
| City of Crystal River                                 | High             | CR-10          | Stormwater Best Management Practices (BMPs) Alternatives Analysis            | The city is conducting an alternatives analysis to determine the best site locations for the implementation of stormwater BMPs and for design and permitting of water quality improvements. | Stormwater Management    | Underway  | 2017       | 2017                      |                                              | \$ 100,000    | City/SWFWMMD   | SWFWMD: \$50,000<br>City: \$50,000  |
| City of Crystal River                                 | High             | CR-11          | Kings Bay Restoration Project                                                | Restoration of approximately 80 acres of canal waterways through the removal of invasive plants and organic material from the canal bottom.                                                 | Surface Water Management | Underway  | 2016       | 2018                      |                                              | \$ 5,061,980  | DEP            | DEP: \$2,061,980                    |
| City of Crystal River                                 | Medium           | CR-12          | Low Impact Development (LID) Incentives                                      | Implement LID incentives for commercial redevelopment along U.S. Highway 19 to manage stormwater.                                                                                           | Stormwater Management    | Planned   | 2017       | 2018                      |                                              | \$ 500,000    | SWFWMD         | SWFWMD: \$500,000                   |
| City of Crystal River                                 | High             | CR-13          | Indian Waters Sewer Expansion Phase II                                       | Installation of central sewer to remove approximately 178 septic systems and one package plant which serves 84 single family and 54 condo units.                                            | Septic Replacement       | Planned   | 2017       | 2018                      | 5,303                                        | \$ 4,000,000  | City/DEP       | DEP: \$3,600,000<br>City: \$400,000 |
| City of Crystal River                                 | High             | CR-14          | Public Education Activities                                                  | Adopt fertilizer ordinance in 2017; website, public service announcements, brochures, etc.                                                                                                  | Education Efforts        | Underway  | 2017       |                           |                                              |               | City           |                                     |
| Florida Department of Ag. & Consumer Services (FDACS) | High             | FDACS-1        | Agricultural BMPs - Farm Fertilizer                                          | Enrollment and verification of BMPs by agricultural producers.                                                                                                                              | BMPs                     | Underway  |            |                           |                                              |               | FDACS          |                                     |
| FDACS                                                 | High             | FDACS-2        | Agricultural BMPs - Livestock Waste                                          | Enrollment and verification of BMPs by agricultural producers.                                                                                                                              | BMPs                     | Underway  |            |                           |                                              |               | FDACS          |                                     |
| Southwest Florida Water Management District (SWFWMD)  | High             | SWF-1          | Crystal River/Kings Bay Surface Water Improvement and Management (SWIM) Plan | Implementation and periodic review and update of the CR/KB SWIM Plan.                                                                                                                       | Surface Water Management | Completed | 2013       | 2015                      |                                              | \$ 205,885    | SWFWMD         | SWFWMD: \$205,885                   |
| SWFWMD                                                | High             | SWF-2          | Three Sisters Springs Wetland Treatment Project                              | Design and construction of a stormwater treatment wetland that will intercept stormwater to improve water quality before discharge into Kings Bay.                                          | Stormwater Management    | Underway  | 2015       | 2017                      |                                              | \$ 643,099    | SWFWMD         | SWFWMD: \$643,099                   |

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|--------------------------------------------------------------------------|------------------|----------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------|---------------|---------------------------|----------------------------------------------|---------------|----------------|-----------------------------------|
| SWFWMD                                                                   | High             | SWF-3          | Three Sister Springs Sediment Removal                                 | Dredging activities and underwater habitat restoration to remove sediment from spring vents which should lead to increased spring discharge and removal of nutrients contained within the sediments.                                                                                                                                                     | Surface Water Management   | Underway | 2016          | 2018                      |                                              | \$ 470,000    | SWFWMD         | SWFWMD: \$470,000                 |
| SWFWMD                                                                   | High             | SWF-4          | Kings Bay Sediment Removal                                            | Multi-year project to remove sediment from northeastern Kings Bay.                                                                                                                                                                                                                                                                                       | Surface Water Management   | Underway | 2014          | 2020                      |                                              | \$ 1,400,000  | SWFWMD         | SWFWMD: \$1,400,000               |
| SWFWMD                                                                   | High             | SWF-5*         | Facilitating Agricultural Resource Management Systems (FARMS) Program | The FARMS Program is an agricultural BMP cost-share program to promote improved water quality in spring systems through approved precision nutrient application technologies.                                                                                                                                                                            | BMPs                       | Underway | Prior to 2012 | 2021                      |                                              | \$ 6,000,000  | SWFWMD         | SWFWMD: \$6,000,000               |
| SWFWMD                                                                   | High             | SWF-6*         | Evaluation of Nitrogen Leaching from Reclaimed Water                  | This project will determine typical nitrogen leaching rates from reclaimed water application to lawns, spray fields, and rapid infiltration basins. This information can be used to refine estimates of nitrogen loading to the aquifer and springs, and identify the best reclaimed water disposal methods to minimize nitrogen loading to groundwater. | Reclaimed Water Management | Underway | 2014          | 2018                      |                                              | \$ 294,000    | SWFWMD         | SWFWMD: \$294,000                 |
| SWFWMD                                                                   | High             | SWF-7*         | Springs Coast Nutrient Source Location Evaluation                     | Modeling of groundwater to identify the specific primary source areas of nutrient loading within the Springs Coast springshed and identify potential cost-effective projects to address nutrient loading.                                                                                                                                                | Groundwater Management     | Underway | 2016          | 2017                      |                                              | \$ 90,000     | SWFWMD/DEP     | SWFWMD: \$45,000<br>DEP: \$45,000 |
| SWFWMD                                                                   | High             | SWF-8*         | Springs Coast Wastewater Disposal Treatment Wetlands                  | This project will assess areas to determine sites appropriate for construction of wetlands to treat WWTF effluent.                                                                                                                                                                                                                                       | Wastewater Management      | Underway | 2014          | 2017                      |                                              | \$ 400,000    | SWFWMD         | SWFWMD: \$400,000                 |
| SWFWMD                                                                   | High             | SWF-9*         | Springs Aquatic Vegetation Restoration                                | Restoration of aquatic habitat and associated ecosystem services such as sediment stabilization and nutrient removal in the northern coastal spring systems.                                                                                                                                                                                             | Surface Water Management   | Underway | 2015          | 2018                      |                                              | \$ 1,362,481  | SWFWMD         | SWFWMD: \$1,362,481               |
| University of Florida Institute of Food and Agricultural Sciences (IFAS) | High             | IFAS-1*        | Development of Landscape Fertilizer Best Management Practices (BMPs)  | The objective of this project is to verify the accuracy of the Florida Yards and Neighborhoods (FYN) and Florida Green Industries BMPs fertilizer recommendations.                                                                                                                                                                                       | BMPs                       | Underway | 2012          | 2018                      |                                              | \$ 274,429    | SWFWMD         | SWFWMD: \$274,429                 |

\*Denotes project that is applicable in all Springs Coast BMAPs and will also be included in the Weeki Wachee/Aripeka BMAP and Homosassa/Chassahowitzka BMAP. The dollar amount is the total project amount (not split among the BMAPs).

**Crystal River/Kings Bay Basin Management Action Plan  
OSTDS Education Activities**

| Lead Entity           | Priority Ranking | Activity Number | Activity Name                                             | Description of Activity                                                                                                                               | Activity Status | Partners | Estimated Start Date | Estimated Completion Date | Cost Estimate (planning level) | Funding Source | Funding Amount |
|-----------------------|------------------|-----------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----------------------|---------------------------|--------------------------------|----------------|----------------|
| City of Crystal River | Medium           | CR-E-1          | Septic Systems in our Watershed Campaign                  | Install signs in urban areas with septic systems informing citizens that lack of inspection and maintenance leads to nutrient pollution in Kings Bay. | Planned         |          | 2019                 | 2019                      | \$5,000                        |                |                |
| UF/IFAS               | High             | IFAS-E-1*       | Outstanding Florida Springs (OFS) OSTDS Campaign, Phase 1 | Implement social marketing campaign that links septic systems to springs.                                                                             | Planned         |          | 2018                 | 2020                      | \$60,000                       | DEP            | \$ 60,000      |
| UF/IFAS               | High             | IFAS-E-2*       | OFS OSTDS Campaign, Phase 2                               | Create on-line clearinghouse of fact sheets, videos, public service announcements, etc.                                                               | Planned         |          | 2018                 | 2018                      | \$7,000                        | DEP            | \$ 7,000       |
| UF/IFAS               | High             | IFAS-E-3*       | OFS OSTDS Campaign, Phase 3                               | Presentations to realtors and distribution of information kits for home buyers.                                                                       | Planned         |          | 2018                 | 2018                      | \$10,000                       | DEP            | \$ 10,000      |
| UF/IFAS               | High             | IFAS-E-4*       | OFS OSTDS Campaign, Phase 4                               | Six to eight septic system workshops for elected officials.                                                                                           | Planned         |          | 2018                 | 2019                      | \$5,000                        | DEP            | \$ 5,000       |
| UF/IFAS               | High             | IFAS-E-5*       | OFS OSTDS Campaign, Phase 5                               | Homeowner workshops with field demonstrations.                                                                                                        | Planned         |          | 2018                 | 2020                      | \$25,000                       | DEP            | \$ 25,000      |

*\*Denotes activity that is applicable in all Springs Coast BMAPs and will also be included in the Weeki Wachee/Aripeka BMAP and Homosassa/Chassahowitzka BMAP. The dollar amount is the total project amount (not split among the BMAPs).*

**Crystal River/Kings Bay Basin Management Action Plan  
Urban Turfgrass Fertilizer Education Activities**

| Lead Entity   | Priority Ranking | Activity Number | Activity Name                                          | Description of Activity                                                                                                                                                                                               | Activity Status | Partners                                                                      | Estimated Start Date | Estimated Completion Date | Cost Estimate (planning level) | Funding Source | Funding Amount            |
|---------------|------------------|-----------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------|----------------------|---------------------------|--------------------------------|----------------|---------------------------|
| Citrus County | High             | CC-E-1          | Fertilizer Education Outreach Campaign                 | The Citrus County Board of County Commissioners intends to undertake a comprehensive multi-year program to educate local citizens and professionals about the role fertilizer plays in the health of aquatic systems. | Planned         | University of Florida (UF) Institute of Food and Agricultural Sciences (IFAS) | 2018                 | 2021                      |                                | County/DEP     |                           |
| Citrus County | High             | CC-E-2          | Public Education on Fertilizer Ordinance               | Presentations to homeowner associations on the county's adopted fertilizer ordinance.                                                                                                                                 | Continuing      | UF/IFAS                                                                       | 2017                 | 2017                      | \$300                          | County         | \$ 300                    |
| Citrus County | High             | CC-E-3          | Social Marketing Research                              | Determine public views/drivers/barriers to reduced use of fertilizer.                                                                                                                                                 | Planned         | UF/IFAS                                                                       | 2017                 | 2017                      | \$50,000                       | DEP            | \$ 50,000                 |
| Citrus County | High             | CC-E-4          | Education Materials                                    | Create branded/themed education materials for public distribution.                                                                                                                                                    | Planned         | UF/IFAS                                                                       | 2018                 | 2018                      | \$25,000                       | DEP            | \$ 25,000                 |
| Citrus County | High             | CC-E-5          | Training on Green Industries Best Management Practices | Train professionals and the general public who seek exemption from the fertilizer ordinance.                                                                                                                          | Continuing      | UF/IFAS                                                                       | 2015                 | 2021                      | In-kind                        | County/UF/IFAS |                           |
| Citrus County | High             | CC-E-6          | News Articles                                          | Publish articles in the <i>Citrus County Chronicle</i> regarding proper use of fertilizer.                                                                                                                            | Continuing      | UF/IFAS                                                                       | 2017                 | 2021                      | In-kind                        | County/UF/IFAS |                           |
| Citrus County | High             | CC-E-7          | Newsletters                                            | Monthly Citrus County Link e-newsletters and quarterly UF/IFAS newsletters that educate on fertilizer use.                                                                                                            | Continuing      | UF/IFAS                                                                       | 2015                 | 2021                      | In-kind                        | County/UF/IFAS |                           |
| Citrus County | High             | CC-E-8          | Webpage - Phase I                                      | Develop webpage geared toward youth with computer game showing impacts of impaired waters and various actions.                                                                                                        | Planned         | UF/IFAS                                                                       | 2018                 | 2019                      | \$25,000                       | DEP            | \$ 25,000                 |
| Citrus County | High             | CC-E-9          | Webpage - Phase II                                     | Develop webpage geared toward adults with content that is visually engaging, including video and social media links.                                                                                                  | Planned         | UF/IFAS                                                                       | 2018                 | 2019                      | \$35,000                       | DEP            | \$ 35,000                 |
| Citrus County | High             | CC-E-10         | Signage                                                | Post signage educating on fertilizer at parks and boat ramps.                                                                                                                                                         | Planned         | UF/IFAS                                                                       | 2019                 | 2019                      | \$3,000                        | DEP            | \$ 3,000                  |
| Citrus County | High             | CC-E-11         | Geocache Educational Tool                              | Create a geocache trail and event with each cache containing educational messages and trinkets.                                                                                                                       | Planned         | UF/IFAS                                                                       | 2019                 | 2020                      | \$3,000                        | County         | \$ 3,000                  |
| Citrus County | High             | CC-E-12         | Evaluation Tools                                       | Evaluate effectiveness of the high priority projects during the first five years.                                                                                                                                     | Planned         | UF/IFAS                                                                       | 2020                 | 2021                      | In-kind                        | County/UF/IFAS |                           |
| Citrus County | High             | CC-E-13         | School Events and Fairs                                | Engage youth with quick messages and hands-on activities.                                                                                                                                                             | Planned         | UF/IFAS                                                                       | 2020                 | 2021                      | In-kind                        | County/UF/IFAS |                           |
| Citrus County | High             | CC-E-14         | Promotional Materials                                  | Procure collateral promotional items such as water bottles, sponges, etc. to hand out at festivals.                                                                                                                   | Planned         | UF/IFAS                                                                       | 2019                 | 2020                      | \$10,000                       | DEP/County     | DEP: \$9k<br>County: \$1k |
| Citrus County | High             | CC-E-15         | Display                                                | Banner, tablecloth, promotional material for education at local events.                                                                                                                                               | Planned         | UF/IFAS                                                                       | 2018                 | 2018                      | \$2,000                        | DEP            | \$ 2,000                  |
| Citrus County | Medium           | CC-E-16         | Citrus 20/20 and Save our Waters Week Committee        | Partner with advisory or environmental groups to utilize their educational programs                                                                                                                                   | Planned         | UF/IFAS                                                                       | 2017                 | 2021                      | \$1,500                        | SWFWMD         | \$ 1,500                  |

**Crystal River/Kings Bay Basin Management Action Plan  
Urban Turfgrass Fertilizer Education Activities**

| Lead Entity   | Priority Ranking | Activity Number | Activity Name                                                  | Description of Activity                                                                                                              | Activity Status | Partners | Estimated Start Date | Estimated Completion Date | Cost Estimate (planning level) | Funding Source | Funding Amount    |
|---------------|------------------|-----------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|----------------------|---------------------------|--------------------------------|----------------|-------------------|
| Citrus County | Medium           | CC-E-17         | Education of Boat Captains and Other Leisure Service Providers | Educate those making a living on or near the water and asking them to be ambassadors.                                                | Planned         | UF/IFAS  | 2018                 | 2021                      | In-kind                        | County/UF/IFAS |                   |
| Citrus County | Medium           | CC-E-18         | Train Volunteers                                               | Train master gardeners and other volunteers about nonpoint source pollution from fertilizers.                                        | Planned         | UF/IFAS  | 2019                 | 2021                      | In-kind                        | County/UF/IFAS |                   |
| Citrus County | Low              | CC-E-19         | Billboards                                                     | Place billboards near the coast or rivers to educate on fertilizer.                                                                  | Planned         | UF/IFAS  | 2019                 | 2020                      | \$24,000                       | DEP            | \$ 24,000         |
| Citrus County | Low              | CC-E-20         | Mall Display                                                   | Decorate a Crystal River Mall window display to educate visiting patrons.                                                            | Planned         | UF/IFAS  | 2020                 | 2021                      | \$2,500                        | DEP            | \$ 2,500          |
| Citrus County | Medium           | CC-E-21         | Public Service Announcements                                   | Create videos and short public service announcements.                                                                                | Planned         | UF/IFAS  | 2022                 | 2023                      | \$5,000                        | DEP            | \$ 5,000          |
| Citrus County | Medium           | CC-E-22         | Electronic Model                                               | Create a stand-alone electronic model with lights, moving "water," and other elements to illustrate run-off and leached pollution.   | Planned         | UF/IFAS  | 2022                 | 2023                      | \$15,000                       | DEP            | \$ 15,000         |
| Citrus County | Medium           | CC-E-23         | Coloring Books                                                 | Engage youth and parents through educational messages in a coloring book format.                                                     | Planned         | UF/IFAS  | 2022                 | 2026                      | \$1,000                        | DEP            | \$ 1,000          |
| Citrus County | Medium           | CC-E-24         | Vehicle Wraps                                                  | Colorful, educational wraps for county vehicles.                                                                                     | Planned         | UF/IFAS  | 2022                 | 2025                      | \$4,000                        | DEP            | \$ 4,000          |
| SWFWMD        | High             | SWF-E-2*        | Fertilizer Campaign                                            | Fertilizer campaign is in place with existing communication products produced by the District's Public Affairs Bureau.               | Underway        |          |                      |                           | \$10,000                       | SWFWMD         | \$10,000 (annual) |
| UF/IFAS       | High             | IFAS-E-6*       | Social Marketing Campaign                                      | Implement social marketing campaign to increase awareness of local fertilizer ordinances and to encourage good fertilizer practices. | Planned         |          | 2017                 | 2020                      | \$50,000                       | DEP            | \$ 50,000         |
| UF/IFAS       | Medium           | IFAS-E-7*       | Florida-Friendly Workshops                                     | "Landscaping for Springs" Florida-Friendly workshops and demonstrations.                                                             | Planned         |          | 2018                 | 2021                      | \$25,000                       | DEP            | \$ 25,000         |