

# FLORIDA COW/CALF WATER QUALITY BMP CHECKLIST

## Checklist Instructions:

**Note:** Before you fill out this checklist, follow the section on BMP Enrollment and Implementation, which begins on page 3 of this manual. You must read the BMPs in Sections 1.0 - 13.0 before filling out the checklist, in order to know what the practices entail. The checklist summaries are for identification purposes only.

1. Check "In Use" for each BMP that you are currently practicing and will continue to practice. If you have a Conservation Plan, enter the FOTG code number in the "In Use" column for all currently implemented practices contained in the plan that are covered in the checklist, and place a check mark in the column for currently implemented practices not contained in the plan.
2. For the applicable BMPs you do not implement currently but will implement, enter the month and year you plan to implement them in the "Planned" column. Where relevant, enter the FOTG code number and month/year of planned implementation in the "Planned" column. Schedule BMPs to be implemented as soon as practicable. FDACS rule requires that applicable Level I BMPs in the manual be implemented as soon as practicable, but not later than 18 months after submittal of the Notice of Intent (NOI) to Implement. This timeline applies to all practices in a Conservation Plan that are identified under the Level I BMPs in the checklist. If you need additional time to implement the following Level I BMPs, you must justify the time needed in the space provided at the end of the checklist: 2.2 Upland Pond Construction Criteria; 2.3 Other Watering Sources; 5.3 Installation of Water Control Structures; 6.3 Riparian Buffer.
3. If you have a Conservation Plan, make sure you identify in the checklist all applicable BMPs that are in the plan and those that are not in the plan. If the plan contains practices that are not covered in the BMP checklist, list the FOTG code number and the names of those practices in the space provided at the end of the checklist.
4. For BMPs you will not implement, check all of the following that apply under "Will Not Implement":
  - NA = Not Applicable (you do not have a resource concern that requires use of the BMP)
  - TNF = Technically Not Feasible
  - ENF = Economically Not Feasible
  - Other – If you select "Other," please explain your reason in the comments section at the end of the form.
5. Make sure you are aware of and follow the record-keeping requirements. BMP groups that include record keeping are marked by the following pencil icon: 
6. Mail this BMP checklist with your NOI form to FDACS, and keep a copy of both documents in your files. If you have developed a Conservation Plan, submit a copy of the plan along with the NOI and checklist.

| BMP # | BMP Group<br>(See body of manual for full description) | In Use/CP#                   | Planned              | Will not implement (check reason below) |     |     |       |
|-------|--------------------------------------------------------|------------------------------|----------------------|-----------------------------------------|-----|-----|-------|
|       |                                                        | Check below/<br>Enter FOTG # | Enter month/<br>year | NA                                      | TNF | ENF | Other |

## 1.0 Nutrient Management

### 1.1. Level I - Fertilizer Management

|                                                                                        |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Use Mehlich-1 soil test results or equivalent to determine P application rate       |  |  |  |  |  |  |
| 2. Determine supplemental fertilizer needs using appendix 5 worksheet                  |  |  |  |  |  |  |
| 3. Use IFAS publication SL-129 to determine fertilization rates                        |  |  |  |  |  |  |
| 4. Time fertilizer applications for maximum nutrient uptake                            |  |  |  |  |  |  |
| 5. Prevent spreading fertilizer material within 50' of streams, sinkholes, or wetlands |  |  |  |  |  |  |

| BMP #                                                                                                                                       | BMP Group<br>(See body of manual for full description) | In Use/CP#                   | Planned              | Will not implement (check reason below) |     |     |       |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------|----------------------|-----------------------------------------|-----|-----|-------|
|                                                                                                                                             |                                                        | Check below/<br>Enter FOTG # | Enter month/<br>year | NA                                      | TNF | ENF | Other |
| <b>1.2. Level I - Residuals or Biosolids Application</b>                                                                                    |                                                        |                              |                      |                                         |     |     |       |
| 1. Follow FDEP/FDOH regulations for residuals/septage application                                                                           |                                                        |                              |                      |                                         |     |     |       |
| 2. Request the Calcium Carbonate Equivalency and nutrient analysis of treated biosolids                                                     |                                                        |                              |                      |                                         |     |     |       |
| 3. Obtain copy of FDEP "Agricultural Use Plan"                                                                                              |                                                        |                              |                      |                                         |     |     |       |
| <b>1.3. Level I - Animal Nutrition and Feedstock</b>                                                                                        |                                                        |                              |                      |                                         |     |     |       |
| 1. Manage supplemental feed to avoid high nutrient loads                                                                                    |                                                        |                              |                      |                                         |     |     |       |
| 2. Locate confined feeding areas away from sensitive features                                                                               |                                                        |                              |                      |                                         |     |     |       |
| 3. Locate mineral and supplemental feed 100' from sensitive features                                                                        |                                                        |                              |                      |                                         |     |     |       |
| <b>1.4. Level I - Animal Waste Management</b>                                                                                               |                                                        |                              |                      |                                         |     |     |       |
| 1. Manage livestock distribution to reduce waste accumulation                                                                               |                                                        |                              |                      |                                         |     |     |       |
| 2. Use concentrated on-site manure sources for fertilizer                                                                                   |                                                        |                              |                      |                                         |     |     |       |
| <b>2.0 Alternative Cattle Water Sources</b>                                                                                                 |                                                        |                              |                      |                                         |     |     |       |
| <b>2.1. Level I - Water Needs Inventory</b>                                                                                                 |                                                        |                              |                      |                                         |     |     |       |
| 1. Inventory existing water sources and compare to livestock demand                                                                         |                                                        |                              |                      |                                         |     |     |       |
| 2. Review water management district records on regional well water quality data                                                             |                                                        |                              |                      |                                         |     |     |       |
| <b>2.2. Level I - Upland Pond Construction Criteria</b>                                                                                     |                                                        |                              |                      |                                         |     |     |       |
| 1. Construct ponds less than 2 acres and locate at least 50' from wetlands, or further based on water management district requirements      |                                                        |                              |                      |                                         |     |     |       |
| 2. Construct cattle access areas with minimum 3:1 slope                                                                                     |                                                        |                              |                      |                                         |     |     |       |
| <b>2.3. Level I - Other Watering Sources</b>                                                                                                |                                                        |                              |                      |                                         |     |     |       |
| 1. Locate troughs/shade to keep cattle from streams or watercourses                                                                         |                                                        |                              |                      |                                         |     |     |       |
| 2. Construct troughs/tanks with stable base                                                                                                 |                                                        |                              |                      |                                         |     |     |       |
| 3. Extend pipe at least 100' from waterbody                                                                                                 |                                                        |                              |                      |                                         |     |     |       |
| <b>3.0 Prescribed Grazing</b>                                                                                                               |                                                        |                              |                      |                                         |     |     |       |
| <b>3.1. Level I - Prescribed grazing guidelines </b>     |                                                        |                              |                      |                                         |     |     |       |
| 1. Manage forages/pastures to promote plant vigor, prevent erosion and maintain soil moisture                                               |                                                        |                              |                      |                                         |     |     |       |
| 2. Use rotational grazing or other measures for regrowth                                                                                    |                                                        |                              |                      |                                         |     |     |       |
| 3. Manage wetlands through flash grazing or exclusion                                                                                       |                                                        |                              |                      |                                         |     |     |       |
| <b>3.2. Level II - Comprehensive Prescribed Grazing </b> |                                                        |                              |                      |                                         |     |     |       |
| 1. Develop grazing schedules based on NRCS Code 528                                                                                         |                                                        |                              |                      |                                         |     |     |       |
| 2. Incorporate cross-fencing in larger pastures                                                                                             |                                                        |                              |                      |                                         |     |     |       |

| BMP<br># | BMP Group<br>(See body of manual for full description) | In Use/CP#                         | Planned                 | Will not implement (check reason below) |     |     |       |
|----------|--------------------------------------------------------|------------------------------------|-------------------------|-----------------------------------------|-----|-----|-------|
|          |                                                        | Check<br>below/<br>Enter<br>FOTG # | Enter<br>month/<br>year | NA                                      | TNF | ENF | Other |

## 4.0 Sediment and Erosion Control Measures

### 4.1. Level I - General Erosion and Sediment Control Measures

|                                                                           |  |  |  |  |  |  |
|---------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Minimize vegetation clearing during construction                       |  |  |  |  |  |  |
| 2. Clear land during dry season                                           |  |  |  |  |  |  |
| 3. Vegetate road banks and disturbed areas within 14 days of construction |  |  |  |  |  |  |
| 4. Use rock crossings for low flow streams                                |  |  |  |  |  |  |
| 5. Manage livestock to prevent erosive trails                             |  |  |  |  |  |  |

### 4.2. Level I - Silt Fences

|                                                         |  |  |  |  |  |  |
|---------------------------------------------------------|--|--|--|--|--|--|
| 1. Use silt screens (less than 3 months) for sheet flow |  |  |  |  |  |  |
|---------------------------------------------------------|--|--|--|--|--|--|

### 4.3. Level II - Check Dams

|                                             |  |  |  |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|
| 1. Install check dams perpendicular to flow |  |  |  |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|

### 4.4. Level II - Sediment Traps

|                                                                        |  |  |  |  |  |  |
|------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Install sediment traps within conveyance system or near cowpens     |  |  |  |  |  |  |
| 2. Retrofit associated sediment trap structures with flashboard risers |  |  |  |  |  |  |

### 4.5. Level III - Grade Stabilization Structures

|                                                                           |  |  |  |  |  |  |
|---------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Clear construction area of debris                                      |  |  |  |  |  |  |
| 2. Vegetate disturbed areas within 14 days of construction                |  |  |  |  |  |  |
| 3. Fence around structure to exclude livestock                            |  |  |  |  |  |  |
| 4. Install structures during the dry season                               |  |  |  |  |  |  |
| 5. Follow criteria for fill placement and spreading per this BMP          |  |  |  |  |  |  |
| 6. Prevent damage from overtopping the structure, and divert excess flows |  |  |  |  |  |  |
| 7. Follow earth embankment side slope specifications per this BMP         |  |  |  |  |  |  |
| 8. Obtain technical assistance as needed                                  |  |  |  |  |  |  |

## 5.0 Water Resources Management

### 5.1. Level I - Water Supply

|                                                    |  |  |  |  |  |  |
|----------------------------------------------------|--|--|--|--|--|--|
| 1. Know quantity/quality of irrigation source      |  |  |  |  |  |  |
| 2. Determine water requirements for forage grasses |  |  |  |  |  |  |

### 5.2. Level I - Ditch Construction and Maintenance

|                                                                             |  |  |  |  |  |  |
|-----------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Follow appropriate grades and plans during ditch excavation              |  |  |  |  |  |  |
| 2. Use appropriate setbacks to avoid hydraulic drawdown impacts to wetlands |  |  |  |  |  |  |
| 3. Use structural control measures in areas with high water velocity        |  |  |  |  |  |  |
| 4. Control broadleaves to maintain permanent vegetative cover               |  |  |  |  |  |  |
| 5. Remove unconsolidated sediments from ditches                             |  |  |  |  |  |  |

| BMP #                                                                                                             | BMP Group<br>(See body of manual for full description) | In Use/CP#                   | Planned              | Will not implement (check reason below) |     |     |       |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------|----------------------|-----------------------------------------|-----|-----|-------|
|                                                                                                                   |                                                        | Check below/<br>Enter FOTG # | Enter month/<br>year | NA                                      | TNF | ENF | Other |
| <b>5.3. Level I - Installation of Water Control Structures</b>                                                    |                                                        |                              |                      |                                         |     |     |       |
| 1. If economically feasible, install water control structures to rehydrate wetlands that have offsite flows       |                                                        |                              |                      |                                         |     |     |       |
| 2. Maintain boards in all structures to reduce discharge volume                                                   |                                                        |                              |                      |                                         |     |     |       |
| <b>5.4. Level I - Grassed Waterways</b>                                                                           |                                                        |                              |                      |                                         |     |     |       |
| 1. Install grassed waterways per USDA-NRCS specifications                                                         |                                                        |                              |                      |                                         |     |     |       |
| <b>6.0 Conservation Buffers</b>                                                                                   |                                                        |                              |                      |                                         |     |     |       |
| <b>6.1. Level I - Field Borders</b>                                                                               |                                                        |                              |                      |                                         |     |     |       |
| 1. Install and maintain field borders at perimeter on new improved pastures                                       |                                                        |                              |                      |                                         |     |     |       |
| 2. Time planting borders for plant survival and consider using native species                                     |                                                        |                              |                      |                                         |     |     |       |
| <b>6.2. Level I - Filter Strips</b>                                                                               |                                                        |                              |                      |                                         |     |     |       |
| 1. Install filter strip to treat runoff from concentrated livestock areas                                         |                                                        |                              |                      |                                         |     |     |       |
| 2. Follow filter strip construction criteria in this BMP                                                          |                                                        |                              |                      |                                         |     |     |       |
| <b>6.3. Level I - Riparian Buffers</b>                                                                            |                                                        |                              |                      |                                         |     |     |       |
| 1. Install and maintain riparian buffer if > 1% slope, and follow NRCS criteria                                   |                                                        |                              |                      |                                         |     |     |       |
| <b>7.0 Fence Installation</b>                                                                                     |                                                        |                              |                      |                                         |     |     |       |
| <b>7.1. Level I - General Fence Installation</b>                                                                  |                                                        |                              |                      |                                         |     |     |       |
| 1. Minimize soil and vegetative disturbances while clearing land                                                  |                                                        |                              |                      |                                         |     |     |       |
| 2. Select materials based on purpose and site conditions                                                          |                                                        |                              |                      |                                         |     |     |       |
| 3. Adjust stocking rates or subdivide larger pastures                                                             |                                                        |                              |                      |                                         |     |     |       |
| 4. Stabilize streambanks and provide alternative water sources in improved pastures, or install exclusion fencing |                                                        |                              |                      |                                         |     |     |       |
| 5. Provide riparian buffer in native or semi-improved pastures that runoff to perennial streams                   |                                                        |                              |                      |                                         |     |     |       |
| <b>7.2. Level I - Fence Installation in Wetlands</b>                                                              |                                                        |                              |                      |                                         |     |     |       |
| 1. Minimize use of mechanical equipment, and limit clearing to 12' on either side of fence                        |                                                        |                              |                      |                                         |     |     |       |
| 2. Perform work during the dry season                                                                             |                                                        |                              |                      |                                         |     |     |       |
| <b>7.3. Level II - Livestock Use Exclusion</b>                                                                    |                                                        |                              |                      |                                         |     |     |       |
| 1. In area regulated by water management district, install exclusion fencing 300' from discharge point            |                                                        |                              |                      |                                         |     |     |       |
| 2. In area not regulated by water management district, install exclusion fencing 500' from discharge point        |                                                        |                              |                      |                                         |     |     |       |
| 3. Install exclusion fencing adjacent to perennial streams where significant erosion occurs                       |                                                        |                              |                      |                                         |     |     |       |

| BMP # | BMP Group<br>(See body of manual for full description) | In Use/CP#                   | Planned              | Will not implement (check reason below) |     |     |       |
|-------|--------------------------------------------------------|------------------------------|----------------------|-----------------------------------------|-----|-----|-------|
|       |                                                        | Check below/<br>Enter FOTG # | Enter month/<br>year | NA                                      | TNF | ENF | Other |

## 8.0 High-Intensity Areas

### 8.1. Level I - High-Intensity Area Management

|                                                                         |  |  |  |  |  |  |
|-------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Locate new cowpens 200' from sensitive features; use berm            |  |  |  |  |  |  |
| 2. Direct runoff from high-intensity areas away from sensitive features |  |  |  |  |  |  |

### 8.2. Level II - Design Retrofits

|                                                       |  |  |  |  |  |  |
|-------------------------------------------------------|--|--|--|--|--|--|
| 1. Use aggregate materials to prevent erosion         |  |  |  |  |  |  |
| 2. Treat discharges occurring into sensitive features |  |  |  |  |  |  |

## 9.0 Animal Mortality

### 9.1. Level I - Sanitation and Disease Control Measures

|                                                                                    |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Transport carcasses in a sanitary manner                                        |  |  |  |  |  |  |
| 2. Clean equipment that comes into contact with carcasses                          |  |  |  |  |  |  |
| 3. Report dangerous diseases to the state veterinarian (refer to list in this BMP) |  |  |  |  |  |  |

### 9.2. Level I - Disposal

|                                                                                             |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Move carcasses to upland areas                                                           |  |  |  |  |  |  |
| 2. Locate burial sites at least 200' from sensitive features and 50' from adjacent property |  |  |  |  |  |  |

### 9.3. Level I - Rendering and Incineration

|                                                   |  |  |  |  |  |  |
|---------------------------------------------------|--|--|--|--|--|--|
| 1. Use a licensed rendering/incinerating facility |  |  |  |  |  |  |
|---------------------------------------------------|--|--|--|--|--|--|

## 10.0 Wellhead Protection for Drinking Water Wells

### 10.1. Level I - Well Planning and Protection

|                                                                 |  |  |  |  |  |  |
|-----------------------------------------------------------------|--|--|--|--|--|--|
| 1. Construct new wells upgradient from likely pollutant sources |  |  |  |  |  |  |
| 2. Research well permit requirements                            |  |  |  |  |  |  |
| 3. Cap or valve free-flowing wells                              |  |  |  |  |  |  |
| 4. Keep livestock 75' from potable wells                        |  |  |  |  |  |  |

### 10.2. Level I - Well Construction and Operation

|                                                           |  |  |  |  |  |  |
|-----------------------------------------------------------|--|--|--|--|--|--|
| 1. Use a Florida-licensed water well contractor           |  |  |  |  |  |  |
| 2. Follow pad and casing specifications in this BMP       |  |  |  |  |  |  |
| 3. Retrofit existing wells with concrete collar and fence |  |  |  |  |  |  |
| 4. Use backflow prevention devices at the wellhead        |  |  |  |  |  |  |

## 11.0 Wetlands and Springs Protection

### 11.1. Level I - Wetland Protection and Impact Avoidance

|                                                                                                    |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| 1. Identify wetland or hydric soil types using soil survey                                         |  |  |  |  |  |  |
| 2. Eliminate or reduce adverse impacts to wetlands                                                 |  |  |  |  |  |  |
| 3. Maintain a 25' vegetative buffer from wetlands, or follow buffers prescribed in your WMD permit |  |  |  |  |  |  |
| 4. Obtain a USDA-NRCS wetland determination prior to conducting activities in a wetland            |  |  |  |  |  |  |

| BMP #                                                                                            | BMP Group<br>(See body of manual for full description) | In Use/CP#                   | Planned              | Will not implement (check reason below) |     |     |       |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------|----------------------|-----------------------------------------|-----|-----|-------|
|                                                                                                  |                                                        | Check below/<br>Enter FOTG # | Enter month/<br>year | NA                                      | TNF | ENF | Other |
| <b>11.2. Level I - Water Quality Treatment and Field Discharges</b>                              |                                                        |                              |                      |                                         |     |     |       |
| 1. Use pretreatment practices to protect wetlands                                                |                                                        |                              |                      |                                         |     |     |       |
| 2. Rotate livestock through wetlands at accelerated pace                                         |                                                        |                              |                      |                                         |     |     |       |
| 3. Use spreader swales or other means to encourage sheetflow                                     |                                                        |                              |                      |                                         |     |     |       |
| <b>11.3. Level I - Special Criteria for First and Second Magnitude Springs</b>                   |                                                        |                              |                      |                                         |     |     |       |
| 1. Maintain a 100' vegetative buffer around spring features                                      |                                                        |                              |                      |                                         |     |     |       |
| 2. Use split applications of fertilizers on pasture areas that discharge to spring features      |                                                        |                              |                      |                                         |     |     |       |
| <b>12.0 Prescribed Burning</b>                                                                   |                                                        |                              |                      |                                         |     |     |       |
| <b>12.1. Level I - Burn Preparation</b>                                                          |                                                        |                              |                      |                                         |     |     |       |
| 1. Develop and implement a burn prescription plan, or use a Certified Prescribed Burn Manager    |                                                        |                              |                      |                                         |     |     |       |
| 2. Obtain burn permit from DOF and heed burning bans                                             |                                                        |                              |                      |                                         |     |     |       |
| 3. Use burning in conjunction with roller chopping in areas with an abundance of palmettos       |                                                        |                              |                      |                                         |     |     |       |
| 4. Burn only when weather conditions are favorable                                               |                                                        |                              |                      |                                         |     |     |       |
| <b>12.2. Level I - Construction of Firelines</b>                                                 |                                                        |                              |                      |                                         |     |     |       |
| 1. Carefully select fireline locations and avoid constructing them in wetlands                   |                                                        |                              |                      |                                         |     |     |       |
| 2. Use alternatives to plowed firelines                                                          |                                                        |                              |                      |                                         |     |     |       |
| 3. Construct firelines with the contour to minimize soil erosion                                 |                                                        |                              |                      |                                         |     |     |       |
| <b>12.3. Level I - Fire Safety and Control</b>                                                   |                                                        |                              |                      |                                         |     |     |       |
| 1. Have adequate fire equipment and control burn temperature                                     |                                                        |                              |                      |                                         |     |     |       |
| 2. Ensure fire is completely out before leaving the site                                         |                                                        |                              |                      |                                         |     |     |       |
| <b>13.0 Integrated Pest Management and Pharmaceuticals</b>                                       |                                                        |                              |                      |                                         |     |     |       |
| <b>13.1. Level I - General IPM Practices</b>                                                     |                                                        |                              |                      |                                         |     |     |       |
| 1. Store pesticides in roofed structure with lockable door, at least 100' from surface water     |                                                        |                              |                      |                                         |     |     |       |
| 2. Use appropriate mix/load sites and measures, per this BMP                                     |                                                        |                              |                      |                                         |     |     |       |
| 3. Practice IPM and use all pesticides in accordance with label                                  |                                                        |                              |                      |                                         |     |     |       |
| 4. Rinse, recycle, or dispose of empty pesticide containers following all applicable regulations |                                                        |                              |                      |                                         |     |     |       |
| <b>13.2. Level I - Pharmaceutical Use and Disposal</b>                                           |                                                        |                              |                      |                                         |     |     |       |
| 1. Use FDA-approved products, and mix only the amount needed                                     |                                                        |                              |                      |                                         |     |     |       |
| 2. Follow label and dosing instructions                                                          |                                                        |                              |                      |                                         |     |     |       |
| 3. Dispose of spent needles and unused pharmaceutical products responsibly                       |                                                        |                              |                      |                                         |     |     |       |

List additional BMPs you are implementing per your conservation plan that are not listed in the above checklist.

| FOTG # | Practice Name/Description | In Use/CP # | Planned       |
|--------|---------------------------|-------------|---------------|
|        |                           | Check Below | Enter mo./yr. |
|        |                           |             |               |
|        |                           |             |               |
|        |                           |             |               |
|        |                           |             |               |
|        |                           |             |               |
|        |                           |             |               |
|        |                           |             |               |

| BMP # | Comments: Please enter "other" reasons below for not implementing BMPs. |
|-------|-------------------------------------------------------------------------|
|       |                                                                         |
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| BMP Group | Justification for additional time to implement specified Level I BMPs |
|-----------|-----------------------------------------------------------------------|
| 2.2       |                                                                       |
|           |                                                                       |
|           |                                                                       |
| 2.3       |                                                                       |
|           |                                                                       |
|           |                                                                       |
| 5.3       |                                                                       |
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|           |                                                                       |
| 6.3       |                                                                       |
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