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BROOKSVILLE, FLORIDA 34604-6899  
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TDD only: 1-800-231-6103 (FL only)

## SMALL GENERAL WATER USE PERMIT APPLICATION AGRICULTURE ATTACHMENT

THE INFORMATION REQUESTED IN THIS FORM IS REQUESTED PURSUANT TO CHAPTER 373, FLORIDA STATUTES (F.S.), AND RULES 40D-2.091, 40D-2.101 AND 40D-2.301, FLORIDA ADMINISTRATIVE CODE. THIS FORM IS TO BE COMPLETED FOR ALL AGRICULTURAL WATER USE PERMIT APPLICATIONS FOR LESS THAN 100,000 GALLONS PER DAY ON AN ANNUAL AVERAGE BASIS.

### PART I. GENERAL

Renewal and New applicants may apply for a 20-year permit term if sufficient data is submitted to demonstrate reasonable assurance that the conditions for permit issuance in Rule 40D-2.301, Florida Administrative Code will be met for the duration of the permit. Applicants for substantial modification can request that the permit be categorized a renewal and if it fulfills the requirements stated above, the applicant can ask for a 20-year permit term.

**APPLICANT:** \_\_\_\_\_

**WUP NUMBER (if any):** \_\_\_\_\_

### PART II. WATER DEMAND

Agricultural water use includes the water needs of all crops grown and animals raised as a commodity. Water needs for feed associated with recreational animals are included here. The non-irrigation water needs for animals used in the recreation industry (e.g., zoos, attractions) require that a **Recreation/Aesthetic** supplemental form also be submitted.

Indicate by checking the box for the types of water use required. Complete only the sections that apply. If you require more space to complete the information, make copies of the respective pages and attach to this application.

**IRRIGATION**

Complete this section for all irrigation needs (those for minor lawn and landscape irrigation associated with the farm are in a separate section). If different crop types will be grown at the same location over time, list the most water-intensive crop for the permit so that there will be sufficient permitted quantities for less water-intensive crops. This is not the same as rotational crops (same crop grown in different locations over time). If there is not an irrigation use, skip to the next section.

If the District's irrigation program, AGMOD, is used to indicate crops and irrigation quantities, it must be attached. If AGMOD is used, the applicant does not have to complete the IRRIGATION section.

**Note:** AGMOD cannot be used to determine quantities for improved pasture irrigation.

Check here if AGMOD was used and its output is attached.

Enter only irrigated acres that are the gross acreage under cultivation, including areas such as roads and internal ditches but excluding uncultivated areas such as wetlands, retention ponds and perimeter drainage ditches. Acreage is to be based on planimeter measurements rather than other measurements such as rolls of plastic.

**ANNUAL CROPS** – Blueberries, citrus, subtropical fruits (e.g., avocados, kiwi), deciduous fruit (e.g., peaches, lychee nuts), pine or other evergreen trees, vineyards, commercial hay, pasture and sod

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are considered annual crops by the District, either because they are perennial or because they are typically replanted in the same season as harvested. Nurseries are addressed separately.

Complete the table below with information on supplemental irrigation for annual crops. Use a new line for each irrigation zone. Enter the same withdrawal point for as many zones as applicable. Do not include withdrawal points that are used only for frost and freeze protection.

**Supplemental Irrigation** – Method used to bring the water from the source to the plant roots.

District ID Number	Owner ID Number	Crop Type	Supplemental Irrigation Method	Irrigated Acres	Annual Avg. Demand (gpd)	Peak Month Demand (gpd)

**ANNUAL CROPS TOTALS:** \_\_\_\_\_

If AGMOD was not used, what is the basis for the requested quantities (historic pumpage, etc.)?

\_\_\_\_\_

\_\_\_\_\_

**Frost and Freeze Protection (FFP)** – List the withdrawal points used for cold protection of the annual crops (commercial hay, pasture and sod do not require cold protection), and what type of auxiliary “irrigation” method is used.

**Hours in advance of a freeze water is applied for cold protection:** \_\_\_\_\_

**Auxiliary Irrigation** – Method used to prepare the beds for planting (raise the water table or create mounds), typically surface (seepage) or sprinkler.

District ID Number	Owner ID Number	Crop Type	FFP Only Y / N	Auxiliary Irrigation Method <i>Low volume spray, sprinklers, etc.</i>	Maximum Daily (gpd)

**Citrus** – If there are other aspects of your citrus operation affecting water use that should be considered, such as under-drains, shallow root depth, etc., specify what they are and where they are located. Also describe any special features of your grove that may affect permitted quantities, such as emitter size, typical resets per year, etc.

N/A.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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- Blueberries** – If there are other aspects of your blueberry operation affecting water use that should be considered, specify what they are and describe how these affect permitted quantities.

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- NURSERIES** – Complete the table below with information on supplemental irrigation. Use a new line for each irrigation zone. Enter the same withdrawal point for as many zones as applicable. Nursery types include field, outside container, greenhouse or shade house.

District ID Number	Owner ID Number	Nursery Type	Supplemental Irrigation Method	Irrigated Acres	Annual Avg. (gpd)	Peak Month (gpd)

**NURSERIES TOTAL:** \_\_\_\_\_

**Frost and Freeze Protection (FFP)** – List the withdrawal points used for cold protection of the nursery. For each, provide the number of hours in advance of a freeze event that water is applied for freeze protection.

District ID Number	Owner ID Number	FFP Only Y / N	Hours in Advance for Cold Protection	Auxiliary Irrigation Method <i>low volume spray, sprinklers, etc.</i>	Maximum Daily Demand (gpd)

**Shade house:** How many months/year are the container plants under a shade house: \_\_\_\_\_

- SEASONAL CROPS** – Complete the table on the next page for each withdrawal point used to irrigate seasonal crops. Start a new line for each seasonal crop. If biofuel crops are grown, specify the crop type. If crop types are alternated, input the crop with higher irrigation needs. If a crop is an additional (second or third) crop immediately planted on the same field using the same irrigation system, please indicate by placing a “2” or a “3” after the crop type.

**Auxiliary Irrigation** – Method used to prepare the beds for planting (raise the water table or create mounds), typically surface (seepage) or sprinkler.

**Supplemental Irrigation** – Method used to bring the water from the source to the plant roots.

**Plastic Mulch** – Check the box to indicate that impervious plastic sheeting is placed over the beds.

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**Last Irrigation** – this is the last day (mm/dd) supplemental irrigation is provided for this crop or this zone of crops.

**Seasonal Crops Table**

District ID No.	Owner ID No.	Crop Type	Acres	Auxiliary Irrigation Method for Bed Prep.	Plant Date (mm/dd)	Supplemental Irrigation Method	Last Irrigation (mm/dd)	Plastic Mulch	Annual Avg. Demand (gpd)	Peak Month Demand (gpd)
								<input type="checkbox"/>		
								<input type="checkbox"/>		
								<input type="checkbox"/>		
								<input type="checkbox"/>		

**SEASONAL CROPS TOTALS:** \_\_\_\_\_

**Strawberries** – Are strawberries irrigated using a different withdrawal point than is used for bed preparation and cold protection?

Yes  No If yes, describe the details of this difference: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Indicate the emitter ratings for emitters used to irrigate strawberries with each withdrawal point, and how many of each type are used per acre:

District ID No.	Owner ID No.	Number of emitters/acre	Emitter rating

**Frost and Freeze Protection** – Indicate the auxiliary irrigation method (means to convey water to the crops for cold protection) used to provide cold protection to the strawberry crop. If a withdrawal point is used only for frost and freeze protection, indicate “Y” for “FFP Only”

District ID Number	Owner ID Number	Auxiliary Irrigation Method for Frost and Freeze Protection <i>Low volume spray, sprinklers, etc.</i>	FFP Only Y / N	Maximum Daily (gpd)

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- Pasture** – Complete the table below for each withdrawal point used to irrigate improved pasture (conveyance system is installed). Irrigation quantities for non-improved pasture are not allocated.

District ID No.	Owner ID No.	Acres	Irrigation Method	Annual Average (gpd)	Peak Month (gpd)

Provide a detailed description of the irrigation system used for pasture irrigation, specifying pipe sizes and lengths, ditches, culverts, etc.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Last date (month/year) pasture was irrigated: \_\_\_\_\_

Indicate the average number of irrigation events per year: \_\_\_\_\_

Indicate the average number of hours per irrigation event: \_\_\_\_\_

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	Annual Average (gpd)	Peak Month (gpd)	Maximum Daily (gpd)
<b>SUBTOTAL IRRIGATION DEMAND:</b>	_____	_____	_____

*(Add Annual Crops, Nurseries, Pasture and Seasonal Crops)*

**NON-IRRIGATION (Barn / In-Field Product Processing)**

Indicate water requirements for non-irrigation and non-livestock activities. These include in-field washing and packing of crops, cleaning and maintenance at the barn, product washing and/or packaging at the barn, and tank filling for “fertigation” and “chemigation” of crops. Note, human potable/sanitary needs are addressed later in this form.

**Note:** Do not include off-site packing and processing — these should be addressed in the **Industrial/Commercial** attachment.

District ID Number	Owner ID Number	Water Use	Annual Average (gpd)	Peak Month (gpd)

**SUBTOTAL NON-IRRIGATION DEMAND:** \_\_\_\_\_

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**AQUACULTURE**

Complete this section for all water needs associated with aquaculture.

Florida Department of Agriculture and Consumer Services Aquaculture Certificate of Registration number (Rule 5L-3.003, Florida Administrative Code): \_\_\_\_\_

Check all types of operations that apply:

- Commercial Food**
- Commercial Tropical**
- Feeder**
- Other** (describe): \_\_\_\_\_

**Withdrawal Point Demand Quantities**

Complete the table below with information regarding the water demand per withdrawal point for this operation. If a withdrawal point provides water for more than one type of enclosure, list that withdrawal point as many times as necessary. If a withdrawal point services more than one enclosure type, indicate "multiple". Demand for cleaning and maintenance is requested later in this application.

Complete the information for the attribute below the pertinent Owner ID No.

Row	Attribute	Owner ID No.	Owner ID No.	Owner ID No.
1	District ID Number			
2	Enclosure Types ( <i>Tank/Vat, Pond, Raceway, Multiple</i> )			
3	Total Volume ( <i>show units: ft<sup>3</sup> or acre-feet</i> )			
4	Number of Times / Year Total Change-out of Water			
5	Annual Average Demand for Change-out (gpd)			
6	Peak Month Demand for Change-out (gpd)			
7	Annual Average Evaporative and Seepage Make-up Water (gpd)			
8	Peak Month Evaporative and Seepage Make-up Water (gpd)			
9	Aeration System Type ( <i>spray, bubbler, etc.</i> )			
10	Annual Average (gpd) ( <i>Rows 5+7</i> )			
11	Peak Month (gpd) ( <i>Rows 6+8</i> )			
12	Number of Hours/Day Pumpage for Cold Protection			
13	Number of Hours/Day Pumpage for Heat Stress Protection			
14	Maximum Daily (gpd)			

Sum the Demand Quantities: Annual Average (gpd) \_\_\_\_\_

Peak Month (gpd): \_\_\_\_\_

Maximum Daily (gpd): \_\_\_\_\_

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**OTHER AQUACULTURE WATER USES**

Indicate other water demands for each activity, such as for egg incubation and sorting; special needs for fry; washing and maintenance of equipment and facilities; shipping and transport containers; effluent (production unit water) treatment; etc.

District ID Number	Owner ID Number	Activity	Annual Average (gpd)	Peak Month (gpd)

OTHER AQUACULTURE TOTAL: \_\_\_\_\_

**SUBTOTAL AQUACULTURE DEMAND:**

*(Add withdrawal point quantities for Tanks/Vats, Ponds, Raceways and Other Aquaculture totals)*

Annual Average (gpd) \_\_\_\_\_

Peak Month (gpd): \_\_\_\_\_

Maximum Daily (gpd): \_\_\_\_\_

**LIVESTOCK OTHER THAN DAIRY**

Complete the table below for all livestock types.

**Note:** Any water needs associated with the horse racing industry are to be included on the **Recreation/Aesthetic** attachment.

District ID Number	Owner ID Number	Livestock Type	No. Head	Annual Average (gpd)	Peak Month (gpd)

**TOTAL LIVESTOCK DEMAND:** \_\_\_\_\_

Describe how water is provided to livestock, the volume of containers or ponds filled, and how often water sources are refilled. This will help to estimate the amount of water needed.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**DAIRY FARMING**

Complete the table below with information regarding water requirements at the dairy. If feed is grown on-site, complete the irrigation section for the water requirements for these crops. List a water use more than once if more than one withdrawal point is used. Typical water uses include animal drinking, animal cleaning, equipment and facility cleaning, product cooling, etc.

Number of head dairy cows: \_\_\_\_\_

District ID Number	Owner ID Number	Water Use	Annual Average Demand (gpd)	Peak Month Demand (gpd)

**TOTAL DAIRY DEMAND:** \_\_\_\_\_

**PART III. OTHER WATER DEMANDS**

If information for these three water use categories is provided on another supplemental form, it is not necessary to complete it here.

**FIRE FLOW** – If fire protection is provided from an on-site water source, indicate the annual average and peak month daily quantities necessary in the table below.

Not applicable; fire protection is provided by a public supply utility.

District ID Number	Owner ID Number	Annual Average Demand (gpd)	Peak Month Demand(gpd)

**FIRE FLOW TOTAL:** \_\_\_\_\_

**LAWN AND LANDSCAPE IRRIGATION** – Indicate lawn and/or ornamental landscape irrigation needs. Types of plants are grass or ornamental landscape. Irrigation methods are usually general spray or impact sprinkler.

District ID Number	Owner ID Number	Acres	Supplemental Irrigation Method	Annual Avg. Demand (gpd)	Peak Month Demand (gpd)

**LAWN AND LANDSCAPE IRRIGATION TOTAL:** \_\_\_\_\_

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- POTABLE/SANITARY REQUIREMENTS** – If potable/sanitary needs of employees are provided from an on-site water source, complete the table below using general employee numbers per shift.
- Not applicable; potable/sanitary needs are provided by a public supply utility.

	District ID Number	Owner ID Number	Employees/ visitors per shift	Workdays per week	Annual Average Demand (gpd)	Peak Month Demand (gpd)
Shift 1:						
Shift 2:						
Shift 3:						

**POTABLE/SANITARY TOTAL:** \_\_\_\_\_

**SUBTOTAL OTHER DEMAND:**  
*(Add Fire Flow, Lawn/Landscape and Potable/Sanitary totals)*

**Annual Average (gpd):** \_\_\_\_\_  
**Peak Month (gpd):** \_\_\_\_\_

**TOTAL AGRICULTURAL WATER DEMAND:**  
*(Add all subtotals and subtract any water provided by a drainage or water control district.)*

**Annual Average (gpd):** \_\_\_\_\_  
**Peak Month (gpd):** \_\_\_\_\_  
**Maximum Daily (gpd):** \_\_\_\_\_

**PART IV. WATER CONSERVATION**

**AGRICULTURE**

By signing and submitting this application, the applicant agrees to implement all water conservation measures that are economically, technically, and environmentally feasible, including:

1. Incorporation of water conservation practices.
2. Limiting daytime irrigation to the greatest extent practicable to reduce water losses.
3. Implementation of a leak detection and repair program as part of an ongoing system maintenance program. This program shall include a system-wide inspection at least once per season.
4. Evaluation of the feasibility of improving the efficiency of the current irrigation system or converting to a more efficient system. This includes implementation of the improvement(s) or conversion when determined to be operationally and economically feasible.
5. Implementation of an irrigation schedule that maximizes the efficiency of delivering the correct quantity of water to the root zone at the time it is needed. This practice shall include the use of tools to determine when and how much irrigation water is needed. Examples of these tools include soil moisture sensors, weather/climatic measuring devices, or piezometers to monitor the water table elevation.

I agree \_\_\_\_\_  
(Signature of applicant)

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**AQUACULTURE**

By signing and submitting this application, the applicant agrees to utilize conservation practices as identified by the University of Florida's Institute of Food and Agricultural Science's Department of Fisheries and Aquatic Sciences publication "Regulations Pertaining to Non-native Fish in Florida Aquaculture (FA121)." The applicant shall undertake any feasible measures that can be implemented immediately and implement other feasible measures as soon as practicable, as well as implement any feasible interim measures.

I agree \_\_\_\_\_  
(Signature of applicant)

