

DRAFT Stakeholder Comments, Fertilizer Management Ordinance

Last updated 11/16/2021 jg

Code Section	Proposed change	Comments <i>(blue text are comments collected since previous update)</i>
Preamble	In order to protect Orange County's surface waters, groundwater, and springs from excessive nutrients, the board hereby creates an ordinance that regulates the use and application of fertilizer, training requirements, and a prohibited fertilizer application period in the county. As a result of impairment to Orange County's surface waters caused by excessive nutrients, or, as a result of increasing levels of nitrogen in the surface or ground water within the aquifers or springs within the boundaries of the county, the board has determined that the use of fertilizers on lands within the county creates a risk of contributing to adverse effects on surface or ground water and finds that additional management measures are required by this ordinance.	<p>in the water Atlas, how many water bodies are marked "impaired"?</p> <p>when you say multiple impairments, I am assuming that it would be Phosphorus first and Nitrogen second, what are the others? Do you have a percentage? 104 out of how many lakes? Does that include city limits or just the county?</p> <p>At the general election on November 3, 2020, the people of Orange County amended the Charter of Orange County by approving Ballot Proposal Question # 1, "Prohibiting Pollution of the Wekiva River, Econlockhatchee River and all other waters of Orange County," creating Section 704.1 of the Charter. Section 704.1(A) provides that all citizens of Orange County have a right to clean water, and that the Wekiva River and the Econlockhatchee River (as well as all waters in Orange County) possesses the legal right to exist, flow, be protected from pollution, and maintain a healthy ecosystem. As such, this fertilizer ordinance shall govern all unincorporated properties within Orange County and well as all municipalities within the County unless said municipalities provide protections against water pollution that are more protective of water quality than this ordinance.</p> <p>Like Pinellas County's Fertilizer Ordinance</p>
15-801 Definitions	Definitions	
	<u>Code enforcement officer</u> means any designated employee or agent of Orange County, Florida authorized to enforce codes and ordinances enacted by Orange County.	
	<u>Fertilizer</u> means any substance or mixture of substances, excluding pesticides, organic composts, and fertilizer derived from biosolids, that contains one (1) or more recognized plant nutrients and promotes plant growth, or controls soil acidity or alkalinity, or provides other soil enrichment, or provides other corrective measures to the soil.	<p>Should this definition be more specific regarding nitrogen and phosphorous compounds? To say that something controls acidity or alkalinity seems redundant. Why are those controlled?</p> <p>Compost should be encouraged not banned from being applied to lawns. It creates and helps maintain healthy soils. It increases natural microbiology and increases water holding capacity of our sandy soil.</p>
	<u>Groundcover</u> means plants used in mass as alternative to turf or lawn and/or to create variety in landscape; usually not having a mature height over two (2) feet tall.	
	<u>Institutional applicator</u> means any person other than a private, non-commercial or a commercial applicator (unless such definitions also apply under the circumstances), that applies fertilizer for the purpose of maintaining turf or landscape plants. Institutional applicator shall include, but not be limited to, owners, managers or employees of public lands, schools, parks, religious institutions, utilities, industrial or business sites, and any residential properties maintained in condominium or common ownership.	"institutional" applicator- does this ordinance basically only apply to subdivision residents? Is HOA common ownership?
	<u>Landscape plants</u> means any shrub, tree, or groundcover(excluding turf).	on ground cover definition was deleted so should remain
	<u>Low maintenance zone</u> means an area a minimum of ten (10) feet wide adjacent to water courses that is planted and managed in order to minimize the need for fertilization, watering, or mowing.	
	<u>Restricted season</u> means the period from June 1 through September 30.	
	<u>Person</u> means any person, natural or artificial person, individual, firm, association, organization, partnership, business trust, corporation, company, agent, employee, or any other legal entity, the United States of America, and the State of Florida and all political subdivisions, regions, districts, municipalities, and public agencies.	
	<u>Prohibited application period</u> means the time period during which a Flood Watch or Warning, or a Tropical Storm Watch or Warning, or a Hurricane Watch or Warning is in effect for any portion of Orange County, issued by the National Weather Service, or if more than two (2) hours forecasted within a 24 hour period	
	<u>Reclaimed water</u> means highly treated wastewater or other water sources meeting the requirements of chapter 62-610, F.A.C., and that is suitable for direct, non-potable, beneficial reuse.	
	<u>Saturated soil</u> means soil in which the voids are filled with water. Saturation does not require flow. For the purposes of this article, soils shall be considered saturated if standing water is present or the pressure of a person standing on the soil causes the release of free water.	
	<u>Slow release</u> means nitrogen in a form that which delays its availability for plant uptake and use for an extended period after application, or that which extends its availability to the plant longer than a readily available, rapid, or quick-release product. This definition includes the terms "controlled release," "timed release," "slowly available," and "water insoluble."	
	<u>Turf, sod, or lawn</u> means a piece of grass-covered soil held together by the roots of the grass, mat layer of monocotyledonous plants, including but not limited to, Bahia, Bermuda, Centiada, Paspalum, St. Augustine, or Zoysia.	
	<u>Urban landscape</u> means pervious areas on residential, commercial, industrial, institutional, highway rights-of-way, or other nonagricultural lands that are planted with turf or horticultural plants. For the purposes of this article, agriculture has the same meaning as in section 570.02, F.S.	<p>Urban landscape defined and paragraphs relating to the reference have been proposed for deletion.</p> <p>Suggest providing a definition of horticultural plants</p>
15-802 Applicability and notice of requirements	Applicability and notice of requirements.	
	(b) Any business that sells fertilizer shall prominently display, at the point of distribution, post a notice to customers that the use of lawn and landscape fertilizers in the county is restricted in accordance with this article. This notice shall be provided by the county stating that the use of lawn and landscape fertilizers in the county is restricted in accordance with this chapter.	<p>Please consider prohibiting all retail fertilizer sales during our rainy season. I understand Pinellas, Hillsborough, and others around Florida require all retailers (Home Depot, Lowes, Walmart, etc) to remove fertilizer from their shelves during our rainy season. They've reported improved conditions in Tampa Bay and their counties' lakes since they enacted the ban. Why doesn't Orange County have a similar ban? I've asked my friends and neighbors, and most of them have no idea it's illegal for homeowners to apply fertilizer during the rainy season. I'm sure most folks shopping at the big box stores also have no clue about our fertilizer ordinance, and there are probably thousands of pounds of fertilizer being applied by homeowners all summer long. I also think allowing "trained" commercial applicators to apply fertilizer during our rainy season is a ridiculous loophole. It doesn't take a PhD or a million dollar study to know that commercially applied fertilizer will run off into our lakes just as quickly as fertilizer applied by homeowners.</p> <p>The best way to stop homeowners from applying fertilizer during our rainy season is to simply not allow retailers to sell it.</p>

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		<p>Under 15-802 (b) can you explain what the notices say that are required for retailers? Does it address the “why” this is important to follow? I ask this because many of our residents do not know how fertilizer affects water systems. They may be likely to comply if the messaging clearly defines the negative impacts of nitrogen and phosphorus use.</p> <p>Especially as it relates to water...like people who are specifically interested on manatees, and Apopka, because they’ve grown up there,...are you all addressing those types issues and emotional responses that we know can trigger behavioral responses?</p> <p>The smartest thing you all can do is take fertilizer off the shelves in the summertime so residential homeowners cannot get it.</p> <p>If you can’t stop fertilizer from being sold in the big box stores or hardware stores during the blackout period you’re proposing, does that also mean you’re not going to be able to look at a fertilizer that does not meet the 65%?</p> <p>COUNTY not COUNT</p>
15-803 Timing of fertilizer application	<p>Timing of fertilizer application. Weather and seasonal restricts.</p> <p>(a) No fertilizer containing nitrogen or phosphorus shall be applied to turf or landscape plants during a period for which the National Weather Service has issued any of the following advisories for any portion [of] the county: a severe thunderstorm warning or watch, flood warning or watch, tropical storm warning or watch, or hurricane warning or watch. No applicator shall apply fertilizer containing nitrogen or phosphorus to turf or landscape plants during the prohibited application period or to saturated soils.</p> <p>(b) No person, except applicators certified pursuant to section 15-809 herein, shall apply fertilizer containing nitrogen or phosphorus to turf or landscape plants during the restricted season from June 1 through September 30.</p> <p>(c) Fertilizer containing nitrogen shall not be applied before seeding or sodding a site, and shall not be applied for the first thirty (30) days after seeding or sodding, except when hydro-seeding for temporary or permanent erosion control in an emergency situation (e.g., wildfire), or in accordance with the Stormwater Pollution Prevention Plan for that site.</p>	<p>This provision could limit the application where rain is forecasted, but no precipitation occurs – which happens quite often. Forecasted rain is listed or communicated as a percentage of precipitation in a viewing area, which is generally a very large area. You could be a commercial applicator in Clermont and no rain occurs, but is forecasted for the viewing area which stretches west to Cocoa Beach. Cocoa gets 2” of rain, and Clermont is bone dry. Following the rule, the commercial business is unable to work when conditions are favorable.</p> <p>New lawns don’t have an exception during blackout period and need one</p> <p>Please make sure to maintain the strict, no exemption, rainy season ban. The elimination of the language which exempted certified applicators pursuant to 15-809 made the 2017 ordinance impossible to enforce and created egregious loop holes. This is a welcome change & update</p> <p>Blackout period is not necessary when restricting quick release to 1/3. I have a lot to say on this.</p> <p>Commercial applicators “certified” with visible proof if proper education should be able to apply Blackout compliant Micronutrients and pesticide only when necessary. This is to maintain commercial accounts.</p> <p>The way its worded it’s like we can’t do anything for those 3 months.</p> <p>In most counties in Florida that have gone to a blackout period, they’ve actually found the negative result because the homeowners would put out more on the front end thinking they need to and then extra on the back end thinking they’ve got to catch up, and the grass has been stressed in the middle. The only way it’s taking up nutrients is through a healthy root zone, if you stress that root zone, you’re not going to have the uptake, you’re just then going to then have higher leachate into those zones</p> <p>Compost has nitrogen and phosphorus in it and if you stick to your rule there, you’ve eliminated the use of it</p> <p>In my experience, working in this industry for 25 years, and experiencing blackout periods, the homeowners that I do service for, say hey, it’s summertime, you’re not putting any fertilizer out, I know about the blackout period, I’ll put it out myself...unexperienced untrained people putting out the wrong fertilizer and you’re making the problem worse</p> <p>I think grass, turf, plants, need to be fed when they’re growing and their growing season is in the summertime, and that’s when the root system is the deepest, and that’s when the plants take up the most nutrients and there isn’t a leaching issue. In fact, Dr. Trenholm, Dr. Unruh, and Dr. Shaddox all have studies that prove that. And there’s still an ongoing study going on at Citrus Research Facility that is still showing the same results</p> <p>There is no summer blend like you just talked about available to homeowners unless they have a spraying system because there is no granular</p> <p>Suggest adding "during the prohibited application period, defined as" June...</p> <p>Don’t put fertilizer on a new lawn, well that new lawn’s gonna get installed in summer, yes it’s going to be raining, and yes it has nitrogen, but when you’re out there in the real world, if you don’t get some fertilizer on that new grass in the first two or three weeks, because typically the property has been let go, there’s no nutrients left in the soil or it’s a brand new structure, you don’t do something with it, the grass is gonna decline.</p> <p>The phosphorous exception noted in Sec. 15-804(b) needs to be included here. Corrective preplant application of phosphorus, when deficient, is imperative. Correcting a P deficiency after establishment is substantially harder and requires increased P addition.</p> <p>Suggest providing a definition for hydro-seeding</p>
15-804 Fertilizer content; application rate	<p>Fertilizer content; application rate.</p> <p>(a) Fertilizers applied within Orange County shall be labeled and applied in accordance with the requirements and directions provided in rule 5E-1.003, F.A.C., unless otherwise specified in this section. No fertilizer shall be used unless labeled in accordance with state law.</p> <p>(b) No fertilizer containing phosphorus shall be applied to any turf or landscape plants— Provided, however, except where a phosphorus deficiency has been demonstrated in the soil by a soil analysis test performed by a laboratory using University of Florida’s Institute of Food and Agricultural Sciences (“UF/IFAS”) approved methodology, phosphorus. If a deficiency is demonstrated, phosphorus may then be applied at a rate no greater than one-quarter (0.25) of one (1) pound of phosphorus per one thousand (1,000) square feet per application, not to exceed one-half (0.5) pound of phosphorus per one thousand (1,000) square feet per year. Any person who obtains such a soil analysis test showing a phosphorus</p> <p>(c) No fertilizer containing nitrogen shall be applied unless at least fifty (50) sixty-five (65) percent of its nitrogen content is slow release as indicated on the Guaranteed Analysis Label</p>	<p>Where did this application rate come from? What form of phosphorus? Or is it as “total phosphorous”?</p> <p>Demonstrate to change the rate, except for 15-803(b). Confirming exception for rate but not the timing</p> <p>You can’t have a set number of phosphorus. We have way too many soil types, I don’t even know how many soil types in Florida we have, and they’re not the same.</p> <p>Suggest providing guidance on length of application after results.</p> <p>Is this allowed all year? Seems like a possible loophole.</p>

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	<p>percent of its nitrogen content is slow release as indicated on the Guaranteed Analysis label, with no more than one (1) pound total nitrogen per one thousand (1,000) square feet of area per application <u>not to exceed two (2) pounds of nitrogen per one thousand (1,000) square feet per year. This requirement shall change to at least sixty-five (65) percent slow release if the product is readily available on the local commercial market by July 1, 2020.</u></p> <p>(d)Notwithstanding section 15-804(c), commercial applicators may apply fertilizer at a rate that does not exceed one-half (0.5) of one (1) pound of readily available nitrogen per one thousand (1,000) square feet of area, provided, however, that any application that exceeds one-half (0.5) of one (1) pound of nitrogen shall conform to subsection 15-804(c).</p> <p>(e)Notwithstanding any other provision of this section 15-804, fertilizers applied to turf must follow the guidelines found in Rule 5E-1.003, F.A.C., as it may be amended.</p> <p>(d)Where reclaimed water is available for irrigation, the fertilizer application rates herein shall be reduced based on the nitrogen or phosphorus content of the water provided by the reclaimed water provider.</p> <p>(e)Nitrogen or phosphorus fertilizer may be applied to vegetable gardens or fruit trees as provided in UF/IFAS recommendations for vegetable gardens and fruit trees.</p>	<p>Is this also as total nitrogen?</p> <p>UF research recommends between 2-5 lbs n/year for St. Augustine Grass in Central FL. Can we compromise at 3-4? 2 lbs is a minimum and not enough for healthy turf in most cases.</p> <p>for Sec. 15-804 (C): Please consider adding language that also adds limits per application. A suggestion might be “no more than one-half pound of nitrogen per 1,000 square feet area per application of fertilizer”</p> <p>If the proposed ordinance permits 1/3 lb. of quick release N when combined with 2/3 slow release, why can't 1/3 lb be applied by itself?</p> <p>Spot application of Nitrogen should be allowed over the broadcast application limit of 2 lbs per 1000 square feet per year. This would be consistent with insecticide spot treatments.</p> <p>Reducing the maximum application limit to 2-4 lbs./yr. will put OC in first place as the most prohibitive of the counties listed. Miami-Dade and Pinellas are at 4 lbs./yr. and the remainder have no maximum. It was mentioned that this component might come with significant resistance, meaning to me the probability of successful implementation could be jeopardized. One strategy might be to equal the 4 lbs. the others are doing to not be the lowest. To me “No Max” to something is a win, especially if it can cross the finish line.</p> <p>What makes sense about not putting fertilizer out in September? So consequently, we're in a zone that still gets fairly cold weather and it's not uncommon for it to get cold in November, so as a company, I am locked in to having to put fertilizer to catch the growing season on turf and shrubs all in the month of October. So now you don't want fertilizer out there now you have a whole lot of it on the ground all at one time, but if I try to put it on the ground in November, some of it, I may get a frost on that new growth or even a freeze.</p> <p>Please provide published evidence that a 65% SRN is more protective of water impairment than 30% or 50%, etc. This [application] rate is likely to create substantial problems on newly established landscapes that are void of organic matter.</p> <p>...shall be applied by a commercial, institutional or residential user?</p> <p>How is the N and P content of reclaimed water determined and when?</p> <p>If customer has reclaimed water, no more nitrogen is needed from fertilizer assuming an irrigation rate of 1 inch/week and 3 mg/L Total Nitrogen (yields 0.8 lbs/year/1,000sf).</p> <p>Sec.15-804 (g) indicates that application rates shall be reduced based on the nutrient content of reclaimed water. However, I don't see any other information on the document that clearly guides applicators on how to make that determination.</p> <p>This is good. Suggest providing guidance on how to do this or ensure guidance is included in the the training since how to do this may not be intuitive.</p> <p>P 6 line 208- what about other edible crops? (berries, grape vine, pineapple). Change "fruit trees" to "edible crops"</p> <p>Are these UF/IFAS recommendations (vegetable gardens and fruit trees) valid whereas the Urban Turf recommendations are not? Sec. 15-804(e) is not consistent with UF/IFAS recommendations.</p> <p>may be applied when?</p>
15-805 Fertilizer-free zones	<p>Fertilizer-free zones.</p> <p>(a)No fertilizer shall be applied within fourteen (14) <u>twenty-five (25)</u> feet of any wetland or surface waters, including but not limited to a lake, pond, stream, water body, water course, or canal.</p> <p>(b) No fertilizer shall be deposited, washed, swept, or blown off, intentionally or inadvertently, onto any impervious surface, public right-of-way, public property, stormwater drain, ditch, conveyance, or water body. Any fertilizer applied, spilled, or deposited, either intentionally or accidentally, on any impervious surface shall be immediately and completely removed to the greatest extent practicable. Fertilizer released on an impervious surface must be immediately contained and either legally applied to turf or landscape plants or any other legal site, or returned to the original or other appropriate container.</p> <p>(c)A low-maintenance zone is strongly recommended, though not required, for all areas within 10 feet of any highly sensitive water bodies</p>	<p>Does this include stormwater ponds?</p> <p>25 ft restriction for bodies of water excessive. No exceptions for seawalls (barriers).</p> <p>sec 15-805 (a): Please consider adding language such as “from the top of a bank” & “landward edge of the top of a seawall” & add “wetland as defined by FDEP (Chapter 62-340, FL Administrative Code, as it may be amended or superseded.”</p> <p>I spend weekends hosting lake cleanups. We have seen a significant decline in water quality. This is happening all over Orange County. I think the setback should be 50 ft. Some of the water issues are so bad that it is impacting property values on certain lakes.</p> <p>15 or 10 ft, 25 ft, if you start backing off with that, what we'd have I think, I was teaching this class before is that 10 ft was a good zone that they had. Once you start not taking care of that additional 15 feet, you're going to start losing the root zone, which is what keeps the stuff from leaching into the waterbody</p> <p>Please provide published evidence that 25' fertilizer-free buffer is more protective of water impairment than 15' or any other distance. Additionally, provide evidence showing the impact of the lack of plant fertility on loss of plant density and resultant soil erosion losses are lake bank destabilization.</p> <p>I really do think we should do a greater set back than 25 ft from a body of water with application of fertilizer. Anything is better than what we currently have though.</p> <p>Suggest providing definitions of wetlands and surface waters</p> <p>Suggest defining impervious surface</p> <p>The low-maintenance zone should require only native planters.</p>

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	within ten (10) feet of the normal high water elevation of any lake, pond, stream, water body, water course or canal, or any wetland, excluding permitted stormwater ponds. Low-maintenance zones should be planted and managed in such a way as to minimize the need	Can we adjust Sec. 15-805 (c) lines 228-230, specify "native plants" Could we consider changing the low-maintenance to Florida-Friendly?
15-806 Mode of Application	Mode of Application Broadcast spreaders applying fertilizers must be equipped with deflector shields positioned to deflect fertilizer from all impervious 236 surfaces, rights-of-way, stormwater drains,	This is a little confusing, given the 25 feet requirement. Is the deflector shield used to prevent entry into the 25 foot area?
15-807 Grass clippings and vegetative material/ or debris.	Grass clippings and vegetative material/ or debris. Grass clippings and for vegetative material/ or debris shall not be deposited, washed, swept, or blown off, intentionally or inadvertently, onto any impervious surface, public right-of-way, stormwater drain, ditch, conveyance, or water body. <u>Any material or debris that is deposited into or that may block stormwater infrastructure shall be immediately removed.</u>	Does this include storm water ponds?
15-808 Exemptions; exceptions	Exemptions; exceptions. (a)Sections 15-805 through 15-810 of this article shall not apply to golf courses; provided, however, fertilizer shall not be applied to golf courses in excess of the provisions set forth in rule <u>Rule 5E-1.003(3), F.A.C., as it may be amended, and golf courses follow the most current version of the FDEP Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses .</u> (b)This article shall not apply to a any bona fide farm operation that the county is without authority to regulate with regard to fertilizer application as defined pursuant to the Florida Right to Farm Act, F.S. (2016) § section 823.14, F.S et seq., or other applicable state law. (c) <u>This article shall not apply to properties that have pastures used for grazing livestock but are not subject to or covered under the Florida Right to Farm Act.</u> (d) <u>This article shall not apply to any lands used for bona fide scientific research, including, but not limited to, research on the effects of fertilizer use on urban stormwater.</u> (e)This article shall not apply to sports turf areas at parks and athletic fields.	Should apply to golf courses because amount of application? Fertilizers that contain zero nitrogen and zero phosphorus are exempt from this ordinance. (compare to urban turf rule for appropriate wording) [recommend inserting the following text at the end of the last line:] Golf Course BMP Certification Program: https://fas-turfgrass.catalog.instructure.com/courses/florida-golf-course-best-management-practices-certification-training-2020-21 no fruit tree and veggie garden exemption? Consider changing "livestock <u>but</u> are . ." to "livestock <u>that</u> are . . ." Consider defining "bona fide" scientific research Sec.15-808 (e) provides an exemption for turf areas at parks an athletic fields. My concern here is the perception that we are exempting ourselves (Parks). I'm not sure if those turf areas can or cannot be managed within the restrictions of the ordinance but it may be worth revisiting. Ultimately, we want to lead by example. Consider adding language similar to Lee County's Ordinance 08.08-9.C: When performing landscaping on all other specialized turf, Specialized Turf Managers shall use their best professional judgment to apply the concepts and principles embodied in the Florida Green BMPs, while maintaining the health and function of their Specialized Turf areas. What would an athletic area be?
15-809 Training requirements; proof of compliance.	Training requirements; proof of compliance. (a) No commercial applicator shall cause fertilizer to be applied, except at his or her own residence, without a valid limited certification for urban landscape commercial fertilizer application from the Florida Department of Agriculture and Consumer Services, as specified in section 15-809(e). (b) Each commercial applicator shall ensure that each applicator he or she employs has a valid limited certification for urban landscape commercial fertilizer application from the Florida Department of Agriculture and Consumer Services prior to the application of fertilizer. (c) Possession of a valid limited certification for urban landscape commercial fertilizer application from the Florida Department of Agriculture and Consumer Services or the Florida Department of Environmental Protection's Florida Friendly Best Management Practices for Protection of Water Resources by the Green Industries training by UF/IFAS shall suffice as evidence of completion of a county approved best management practices training program. (a)All commercial and institutional applicators within Orange County, shall abide by and successfully complete the six-hour training and continuing education requirements in the <u>Florida-friendly Best Management Practices for Protection of Water Resources by the Green Industries, offered by the Florida Department of Environmental Protection through the UF/IFAS "Florida-Friendly Landscaping" program.</u> (b)All commercial applicators within Orange County shall have and carry in their possession <u>at all times when applying fertilizer, evidence of certification by the Florida Department of Agriculture and Consumer Services as a commercial fertilizer applicator pursuant to rule 5E-14.117(11), F.A.C., and section 482.1562, F.S.</u> (c)All commercial applicators must submit proof of subparagraph (b) to Orange County EPD to receive an applicator decal and shall affix the decal provided by Orange County EPD to all vehicles used during applications. (d)Non-commercial applicators shall follow the recommendations of the Orange County office of the UF/IFAS Florida Yards and Neighborhoods program for its successor when	How does this item get enforced? You refer to IFAS + UF why do you have to require more than GI-BMP? Look at Tampa- no change from blackouts P. 8 line 294. Landscaping should have TM trademark. Are annual bedding plants exempt? What fertilizer education is given to institutional applicators who may not have professional training? [recommend inserting the following text at the end of the last line:] Golf Course BMP Certification Program: https://fas-turfgrass.catalog.instructure.com/courses/florida-golf-course-best-management-practices-certification-training-2020-21 UF/IFAS "Florida-Friendly Landscaping is Trademarked In addition to this specific course, I suggest adding language similar to "or other Orange County approved BMP training program" at the end of this sentence in the event that this training becomes unavailable or changes significantly so that it is no longer as applicable to this ordinance. Current or up to date. Licensees shall obtain the Continued Educational Units (CEUs) needed to keep their license up to date. THIS IS A HUGE PROBLEM and we have served the backlog of people and fielded many questions. Suggest a bigger size for Decals Saying "shall", how do we enforce?

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	Once the City of Orlando has a Neighborhood Program in place, when applying fertilizers provide proof on an annual basis of successful completion of the online training "Orange County Fertilizer Application Education Course for Citizens" on the Orange County fertilizer web page.	or institutional? Does this mean only 2 times per year or up to 5 times per year for certain species (St. Augustine)? It says 2 above, but FYN handbook states this: For centipedegrass, apply about twice a year in Central. For St. Augustinegrass or zoysiagrass, apply about two or three times a year in Central Florida. Also, other UF documents that could be interpreted as FYN say 2-5 for St. Augustine https://hort.ifas.ufl.edu/yourfloridalawn/documents/LawngrassFertilizerRecommendations.pdf
	(e)Certified applicators must show proof of training on all vehicles used during applications.	Consider if this fits better under the exemptions section.
15-810 Commercial applicators; business tax certificate	Commercial applicators; business tax certificate. Prior to obtaining or renewing an Orange County local business tax certificate for a business that provides landscape services that include fertilizer application, each commercial applicator shall provide proof of compliance with section 15-809(a) and (b) successful completion from county approved best management practices training programs within the previous three (3) years. Possession of a valid limited certification for urban landscape commercial fertilizer application from the Florida Department of Agriculture and Consumer Services or the Florida Department of Environmental Protection's Florida Friendly Best Management Practices for Protection of Water Resources by the Green Industries training by UF/IFAS shall suffice as evidence of completion of a county approved best management practices training program.	
15-811 Variances	Variances. All requests for a variance(s) from the requirements of this article shall be made in writing to the manager Manager of the Orange County EPD Environmental Protection Division. The manager may require the applicant for a variance to provide such information as necessary to carry out the purpose of this article. The manager may approve, approve with conditions, or deny the request requests for a variance. variances--A variance may be granted if strict application of this article the Orange County Fertilizer Management Ordinance would lead to unreasonable or unfair results in particular instances, provided that the applicant demonstrates with particularity that compliance will result in a substantial economic, health, or other hardship on the applicant requesting the variance or those served by the applicant.	Copy Pinellas County Ordinance, don't allow for loopholes Recent similar language added to a Water Rec Ordinance Draft provides for a variance- Sec. 15-811 the variance from requirements of other ordinance erodes the strong.....Please remove the variance for exception to apply nitrogen and phosphorus The Sierra Club supports Orange County's effort to update & Strengthen the ordinance. The draft is missing one major protection. Why is there an inclusion of a section of a variance w/in the ordinance? This inclusion of this would seem to run counter to the intent of strengthening this ordinance. Other strong ordinances nearby do not have a variance section (e.g. Seminole, Lake, Brevard, Volusia). This could potentially create a loophole that like the 2017 ordinance could exempt commercial applicators. There is no situation where failure to apply fertilizer will result in "substantial economic, health, or other hardship" to any business. If a patch of grass needs attention, there are soil amendments, like compost, that can be used. There are also plenty Zero N & Zero P compliant products available to consumers. With the exception of the variance, we support this ordinance. Please eliminate the entirety of Sec 15-811. Can you give an example of a variance (sec 15-811); specifically what situation would lead to "unreasonable or unfair results...that would result in substantial economic, health, or other hardship..." I support Sierra Club's motion to delete the variance section.
15-812 Enforcement	Enforcement and penalty. (a)It shall be unlawful for any person to violate any provision of this article, except section 15-802(b), or any provision of any regulation resolution enacted pursuant to the authority of this article. Every code enforcement officer is authorized to enforce the provisions of this article. Any applicator person who violates any provision of this article, except section 15-802(b), or any provision of any regulation resolution enacted pursuant to the authority of this article, shall be subject to the following penalties: may be prosecuted in accordance with chapter 11. Each day such a violation continues shall be considered a separate offense.	How are you working with municipalities on noticing and enforcement? Winter Park has adopted O.C. Ordinance. Since we passed the 2017 ordinance. How many companies have been issued a warning letter or citation? Without clearly outlined fines this has revision has no teeth. Suggest \$100 fine for first offense and \$250 thereafter and \$500 for commercial and \$1000 thereafter. Sec.15-812 reduces the amount of fines for violations, not sure why they are doing that if the goal is to make the ordinance more effective. Why exempt businesses? What is the ch. 11 violation schedule? Sec. 15-812 can we add fines? Tampa, Sarasota, St. Pete when they put out the blackout periods and all of that, there's been very little results...now there's not much attention paid to it at all by the people out there doing the work because there was not enough enforcement I would say that this needs to be accompanied by a good plan to train staff (code enforcement officers and inspectors) on how to enforce. All field staff should be made aware of what to look for and where to send complaints for actual notices of violation. Also should be accompanied by a robust public information campaign on the benefits of compliance to the environment as a whole vs the harm + penalties.
	(1)First violation: Written notice--	
	(2)Second violation: Fine of fifty dollars (\$50.00), except for commercial applicators it shall be five hundred dollars (\$500.00)--	
	Third and subsequent violations: Fine of one hundred dollars (\$100.00), except for commercial applicators it shall be seven hundred fifty dollars (\$750.00)--	
General		I am a homeowner on Lake Virginia and have seen firsthand the negative effect of Fertilizer runoff. I am very concerned and support this fertilizer ordinance

Code Section	Proposed change	Comments <i>(blue text are comments collected since previous update)</i>
Leaching		<p>UF - tour of some equipment they had created for studying leaching and they had turf grass and they had the roots going down and they would put fertilizer in the water and they do a study on the leachates and you know that when applied at proper rates they didn't show that fertilizer was leaching beyond the root zone to a degree that was something we need to be concerned about...we know leaf litter also leaches nitrogen and phosphorus and also bird poop and a lot of other things...I just don't understand this study and I'm going to look at it but it doesn't make sense to me because this has been studied before by UF researchers and they've done extensive studies on leaching of fertilizers and they've done extensive studies with turf and the amount of leachate that makes it past the root zone</p> <p>The point that was made a minute ago, research has shown that if we use these correct rates, spoon feed nutrition, you don't get leaching. That's a fact. Laurie Trenholm proved it.</p>
Industry is using small amounts of nitrogen		<p>Fertilizer's our biggest expense in our applications so we don't want to put down any more fertilizer than we have to...I would suggest that it's the homeowners in that area that maybe are contributing most of this</p> <p>Commercial people, we have a lot of people that monthly, if not more than monthly, pull tissue samples to address what this gentleman here is saying they only apply what needs to be applied, so homeowners aren't pulling those samples to do that, they're just applying.</p> <p>I'll share what we do - we put about, a little over three pounds per 1000 sf per year, during the summer we're not heavily fertilizing with nitrogen, we're using a lot of micronutrients, but we add a little bit of nitrogen ¼ to 1/3 because it helps the uptake of the micronutrients. There are two ways to make grass greener, nitrogen and iron and manganese, micronutrients or nitrogen</p>
Pesticides		<p>I noticed what you're requiring or what you're proposing doesn't have anything about pesticides in it, I didn't see that, I didn't find it in the rule. Am I correct in that you're going to keep pesticides out of this blackout ordinance?</p>
Support		<p>I want to thank EPD and staff for putting together this ordinance and drafting this language and opening it up for the public...We have a crisis right now. Dogs are jumping into waterbodies and dying from getting exposed to different types of harmful algae...for too long, there have been poisons applied to nature that has harmed it past the point of where it might start killing people and we don't want to wait until it gets to that point where a kid goes into a lake and dies because they've been exposed to harmful bacteria or something along those lines</p> <p>Thank you all for revisiting this again and for listening to the community. Certainly already sounds better than what we had in 2016.</p>
Consult an agronomist		<p>this is leaving out a lot of the new technologies that we have advanced in fertilizer and stuff. I can now affect the nutrient conversion of nitrogen and phosphorus 30 to 40 % above what you could when this ordinance was written...you need to advance the science because now how we can handle soil agronomy, I can change the release curves with soil biology versus just the other way and none of that's addressed in here</p> <p>have an agronomist on this panel so that we can have input for healthy systems...not banning things, blanket banning things, to 25 ft so that they turn into sand...an agronomist understands soils, plants, water, the systems - healthy lawns protect our waterbodies</p>
Homeowners are at fault		<p>a 50-lb bag of fertilizer in the store is usually way too big for any homeowner lot, so they're using 30-35 lbs, do the other 15 or 20 lbs go in the garage for next time in October? No, let's just go ahead we found that they put it in the hopper and run it back out.</p> <p>my industry, has to get BMP certified and homeowners don't to apply fertilizer, why the industry has to use 65% slow release and homeowners don't, is that correct?</p> <p>but a good compromise that I'll put out there is to allow professionals to do it correctly with regulations as proposed and eliminate the homeowner from doing it</p>
Sod		<p>if you didn't have it around commercial buildings and we used to have all xeriscape as they call it, we'd have more rodents, we do wildlife removal and there's all kinds of animals, rats, squirrels, raccoons, getting into your structures, we'd have snakes, we'd have all kinds of things...we can't just transition to this we have to take care of turfgrass, we don't live in Arizona, we can't just transition quickly to no turfgrass, if we want to move in that direction it needs to move slowly</p> <p>There are alternatives to sod that should be considered when you are making statements about healthy systems; there are other alternatives that can be utilized to ensure water quality and soil quality improvements over time...sod is not the only choice there are other alternatives that could help build soil quality, there are other Florida Friendly very low water concentrated things that we could use</p> <p>Florida Yards and Neighborhoods that has the nine principles, and actually the appropriate use of turf is one of the nine principles</p>
Too extreme		<p>The ordinance as proposed today is too extreme</p>
Septic		<p>I think that the energy is so high right now for Septic to Sewer. The investment that all tax players in Florida are making right now to make sure that Septic to Sewer...This is coming at the same issue from two different angles. Maybe the opportunity is also out there to try and for whenever these things come up at the BCC or in the news about what's going into effect such Septic to Sewers...to say "in Conjunction With."</p>