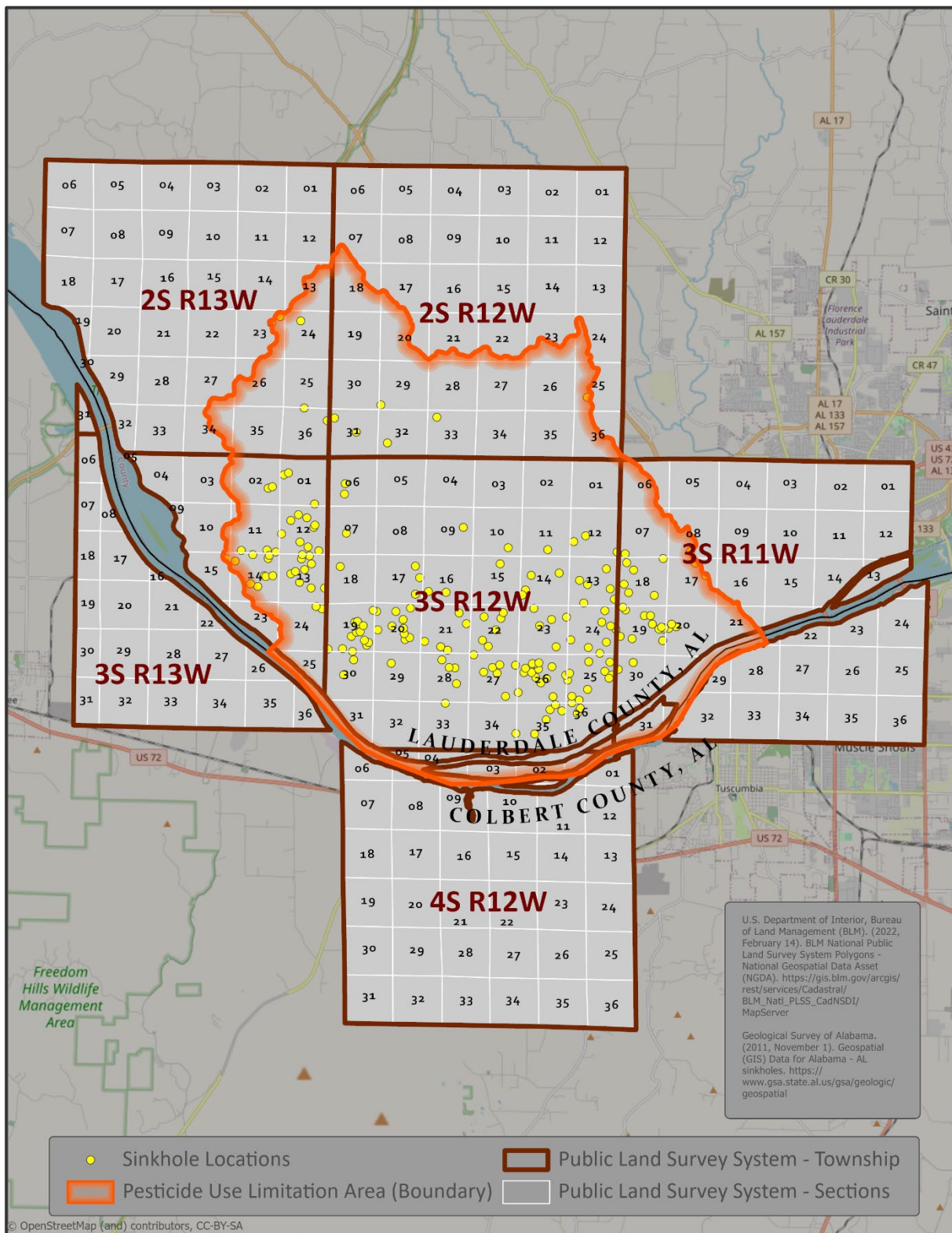


This information is intended to be used in conjunction with US EPA's Endangered Species Protection Bulletins in Bulletins Live! Two ([Bulletins Live! Two -- View the Bulletins | US EPA](#)) for malathion applications to agricultural crops.

Applicators on the image below identify the Public Land Survey System (PLSS) township and section(s) within the Pesticide Use Limitation Area (PULA) in which you intend to apply. Locate your township and sections in the tables below and use the links to open maps displaying the location of sinkholes in the township and sections. Each map displays a $\frac{1}{4}$ township and can help orient where sinkholes are in relation to pesticide application sites to ensure pesticide use limitations are properly followed. Note that some of the $\frac{1}{4}$ township maps are wholly within the PULA and therefore the orange PULA outer boundary may not be visible on every $\frac{1}{4}$ township map. If the township and section in which you intend apply does not have a linked map (i.e., table row indicates "No Map; No Sinkholes" for the township and section(s)), there are no sinkholes in the section and therefore no additional use limitations for this pesticide are needed.



Township	Sections	Link to Sinkhole Map (1/4 township)
2S R12W	01-03,10-15	No Map; No Sinkholes
2S R12W	04-09,16-18	No Map; No Sinkholes
2S R12W	19-21,28-33	Alabama Township 2SR12W 19-21, 28-33
2S R12W	22-27,34-36	Alabama Township 2SR12W 22-27, 34-36
4S R12W	01-03,10-15	No Map; No Sinkholes
4S R12W	04-09, 16-18	No Map; No Sinkholes
4S R12W	19-21,28-33	No Map; No Sinkholes
4S R12W	22-27,34-36	No Map; No Sinkholes
2S R13W	01-03,10-15	No Map; No Sinkholes
2S R13W	04-09, 16-18	No Map; No Sinkholes
2S R13W	19-21,28-33	No Map; No Sinkholes
2S R13W	22-27,34-36	Alabama Township 2SR13W 22-27, 34-36
3S R11W	01-03,10-15	No Map; No Sinkholes
3S R11W	04-09,16-18	Alabama Township 3SR11W 04-09, 16-18
3S R11W	19-21,28-33	Alabama Township 3SR11W 19-21, 28-33
3S R11W	22-27,34-36	No Map; No Sinkholes
3S R12W	01-03,10-15	Alabama Township 3SR12W 01-03, 10-15
3S R12W	04-09,16-18	Alabama Township 3SR12W 04-09, 16-18
3S R12W	19-21,28-33	Alabama Township 3SR12W 19-21, 28-33
3S R12W	22-27,34-36	Alabama Township 3SR12W 22-27, 34-36
3S R13W	01-03,10-15	Alabama Township 3SR13W 01-03, 10-15
3S R13W	04-09,16-18	No Map; No Sinkholes
3S R13W	19-21,28-33	No Map; No Sinkholes
3S R13W	22-27,34-36	Alabama Township 3SR13W 22-27, 34-36

Township and section information obtained from the US Department of the Interior BLM National PLSS National Geospatial Data Asset ([BLM Natl PLSS Public Land Survey System Polygons - National Geospatial Data Asset \(NGDA\) - data.doi.gov](#)). The location of sinkholes obtained from the Geological Survey of Alabama sinkhole points ([GSA/OGB \(state.al.us\)](#)).

2S R12W

U.S. Department of Interior, Bureau of Land Management (BLM). (2022, February 14). BLM National Public Land Survey System Polygons - National Geospatial Data Asset (NGDA). https://gis.blm.gov/arcgis/rest/services/Cadastral/BLM_Natl_PLSS_CadNSDI/MapServer

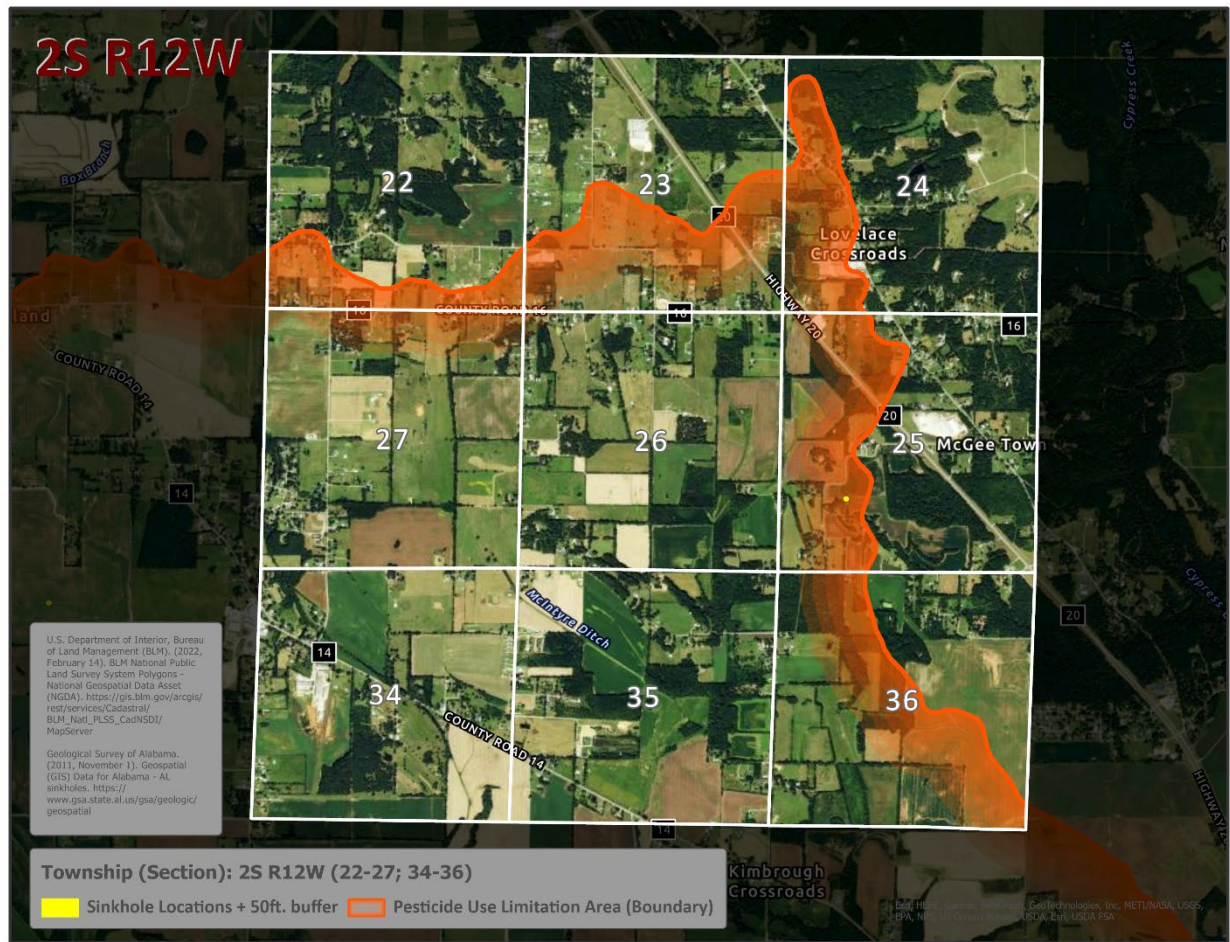
Geological Survey of Alabama. (2011, November 1). Geospatial (GIS) Data for Alabama - All sinkholes. <https://www.gsa.state.al.us/gsa/geologic/geospatial>

Township (Section): 2S R12W (19-21; 28-33)

Sinkhole Locations + 50ft. buffer
 Pesticide Use Limitation Area (Boundary)

Esri, HERE, Garmin, Swirec, GeoTechnology, Inc., METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, USDA FSA

Alabama Township 2SR12W 22-27, 34-36



U.S. Department of Interior, Bureau of Land Management (BLM), (2022, February 14). BLM National Public Land Survey System Polygons - National Geospatial Data Asset (NGDA). https://gis.blm.gov/arcgis/rest/services/Cadastre/BLM_Natl_PLSS_CadNDS1/MapServer

Geological Survey of Alabama. (2011, November 1). Geospatial (GIS) Data for Alabama - At sinkholes. <https://www.gsa.state.al.us/gsa/geologic/geospatial>

Township (Section): 2S R13W (22-27; 34-36)

Sinkhole Locations + 50ft. buffer Pesticide Use Limitation Area (Boundary)

© 1986, German Cartography, GeoTechnology, Inc. © 2011, NASA, USGS, EPA, © 2015, US Census Bureau, USDA, Esri, USDA FSA

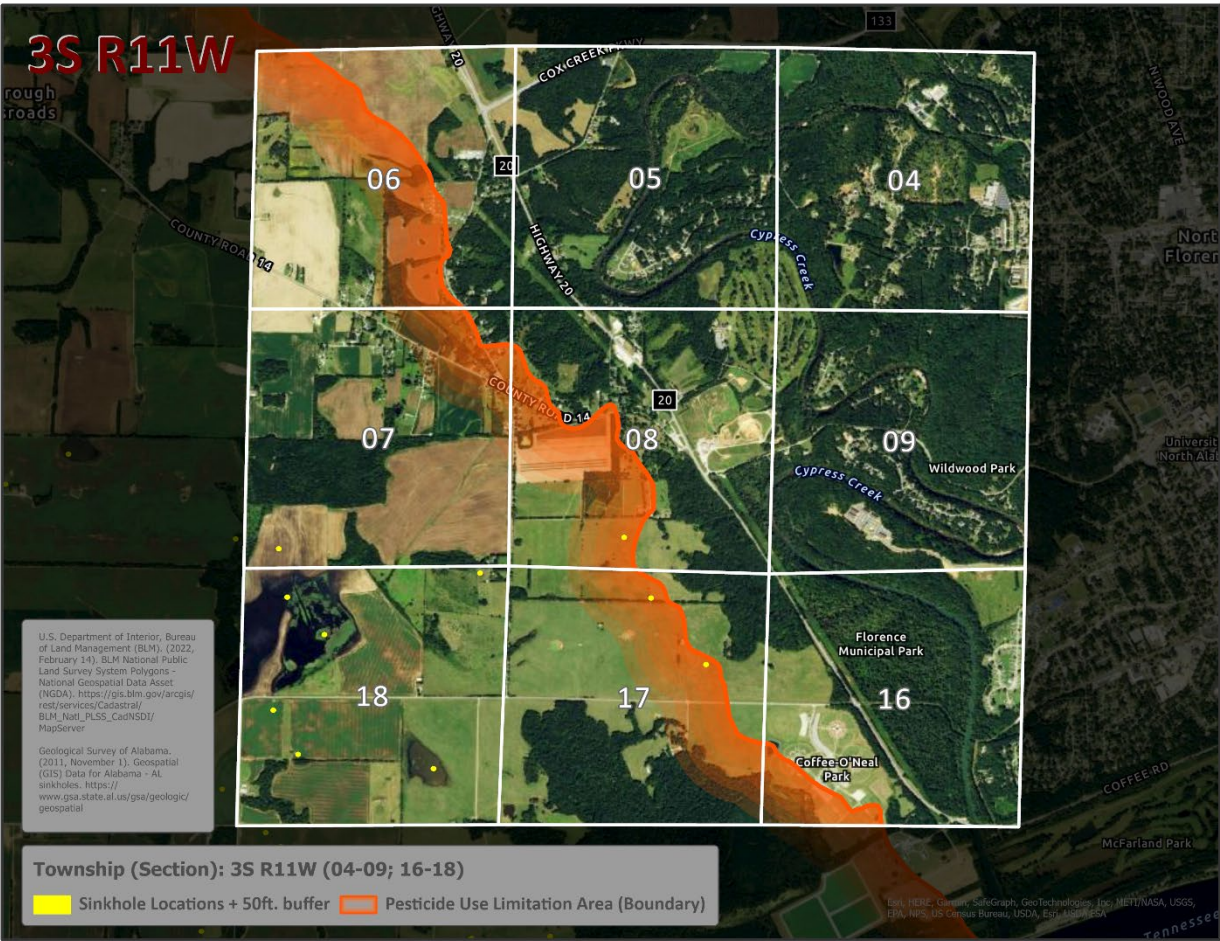
U.S. Department of Interior, Bureau of Land Management (BLM). (2022, February 14). BLM National Public Land Survey System Polygons - National Geospatial Data Asset (NGDA). https://gis.blm.gov/arcgis/rest/services/Cadastral/BLM_Natl_PLSS_CadNSDI/MapServer

Geological Survey of Alabama. (2011, November 1). Geospatial (GIS) Data for Alabama - AL sinkholes. <https://www.gsa.state.al.us/gsa/geologic/geospatial>

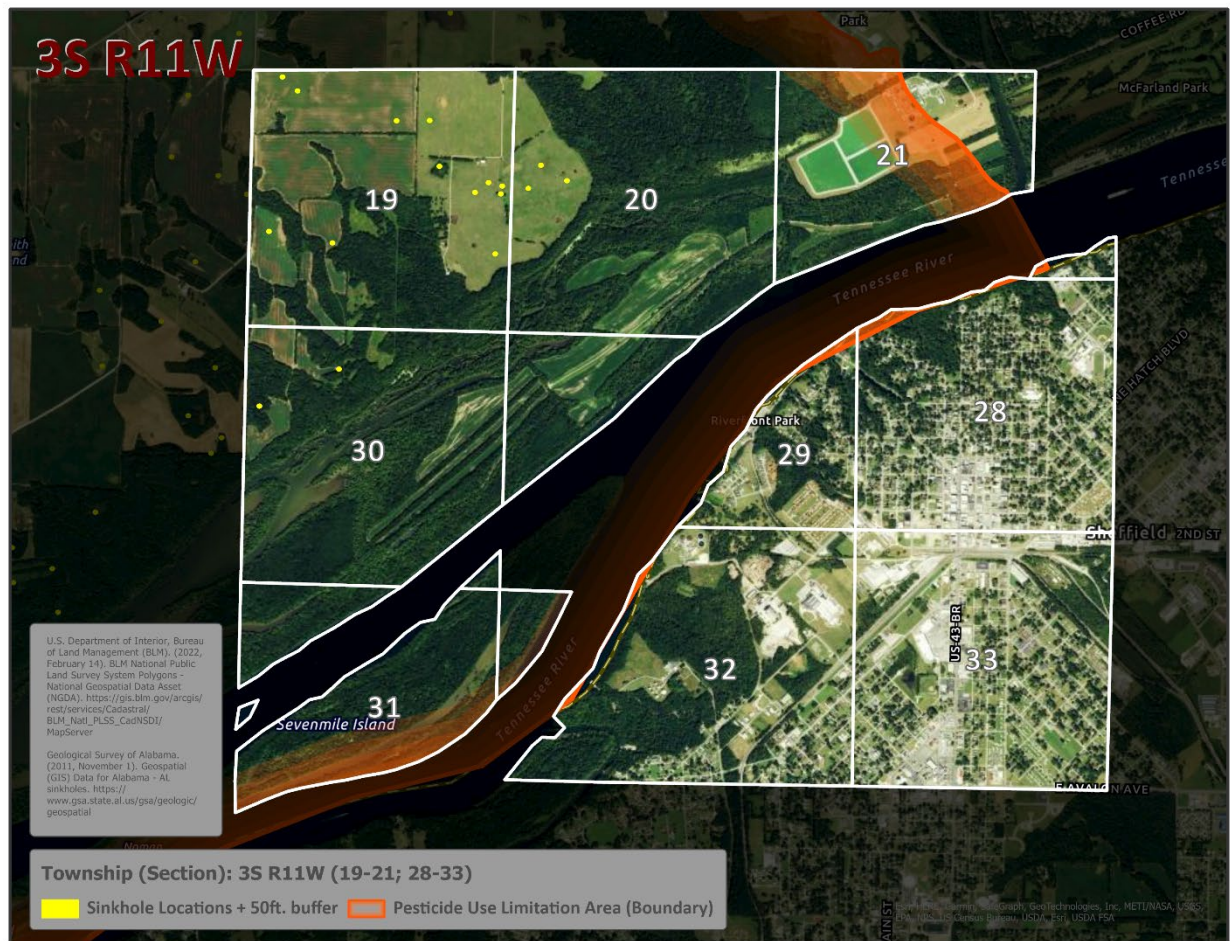
 Sinkhole Locations + 50ft. buffer Pesticide Use Limitation Area (Boundary)

Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., HERE, NASA, USGS, EPA, NPS, US Census Bureau, USDA, Esri, USDA FSA

Alabama Township 3SR11W 04-09, 16-18



Alabama Township 3SR11W 19-21, 28-33



Alabama Township 3SR12W 01-03, 10-15



3S R12W

Big Hill Pond

Harding Bottoms

Sinking Creek

06 05 04

07 08 09

18 17 16

U.S. Department of Interior, Bureau of Land Management (BLM). (2022, February 14). 30M National Public Land Survey System Polygons - National Geospatial Data Asset (NGDA). https://gsa.blm.gov/arcgis/rest/services/Cadastral/BLM_Natl_PLSS_CadNSDI/MapServer

Geological Survey of Alabama. (2011, November 1). Geospatial (GIS) Data for Alabama - All sinkholes. <https://www.gsa.state.al.us/gsa/geological/geospatial>

Township (Section): 3S R12W (04-09; 16-18)

Sinkhole Locations + 50ft. buffer Pesticide Use Limitation Area (Boundary)

DaLison Pond

Esri, DeLorme, GeoGraphic, GeoTechnologies, Inc., METI, NOAA, IGN, USGS, US Census Bureau, USDA, Esri, USDA, FSA

16

Geological Survey of Alabama.
(2011, November 1). Geospatial
(GIS) Data for Alabama - Al.
sinkholes. [https://
www.gsa.state.al.us/gsa/geologic/
geospatial](https://www.gsa.state.al.us/gsa/geologic/geospatial)

 Sinkhole Locations + 50ft. buffer Pesticide Use Limitation Area (Boundary)

East, HERE, Garmin, SafeGraph, GeoTechnologies, Inc., METI/NASA, EPA, NPS, US Census Bureau, USDA, Esri, USDA FSA

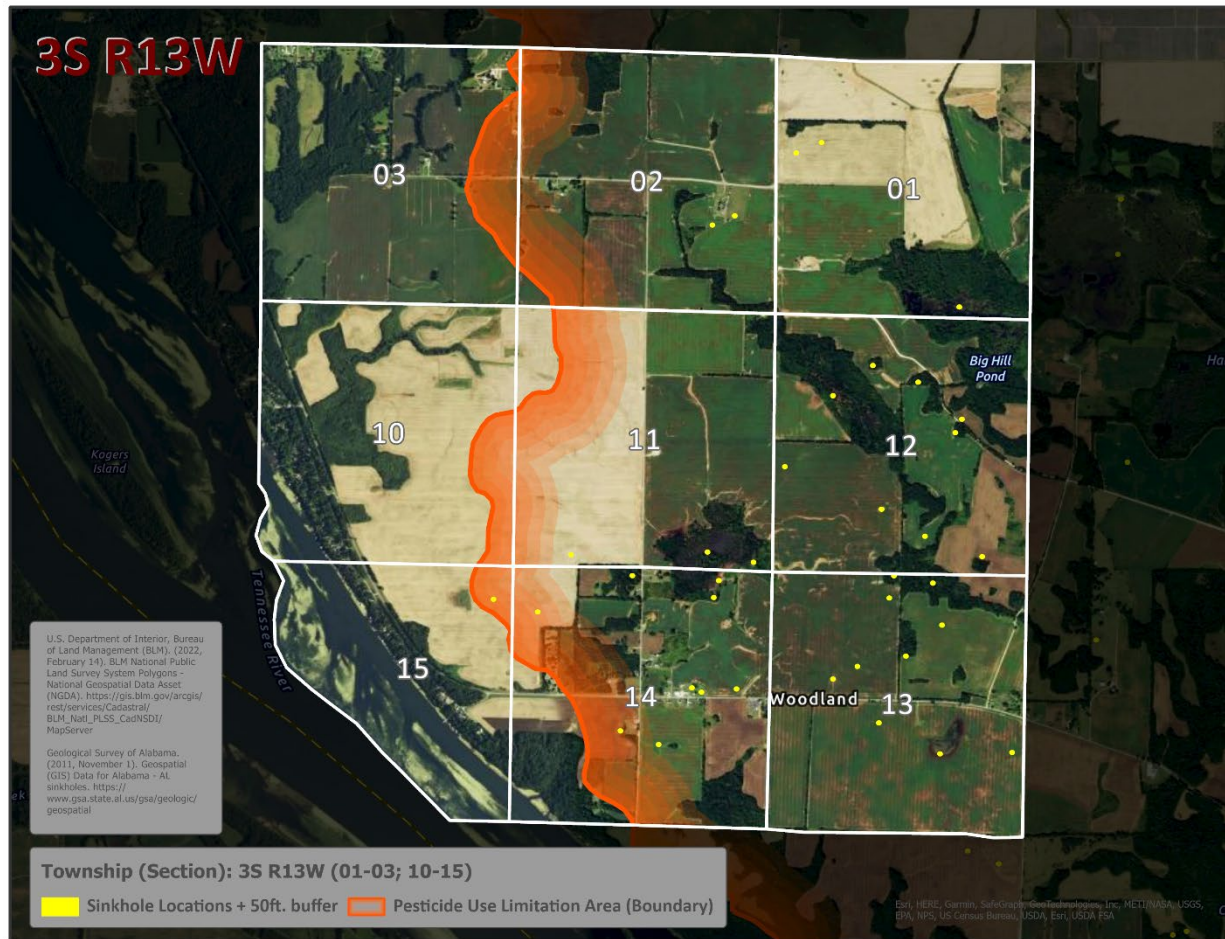
Alabama Township 3SR12W 19-21, 28-33



Alabama Township 3SR12W 22-27, 34-36



Alabama Township 3SR13W 01-03, 10-15



Alabama Township 3SR13W 22-27, 34-36

