Water pollution has many sources. Up to half of all pollutants come not from factories or wastewater treatment plants, but from many diffuse sources resulting from our own everyday activities. For example, dog waste left on the ground or chemicals sprayed on your lawn can get washed into the nearest waterways by the next rain. Pet waste and pesticides in your yard may not seem like they could have a large effect on local streams and lakes, but our waterways receive stormwater from thousands of backyards. What we do in our own yards and our own communities can make all the difference to the quality of our lakes and streams.

What is Storm Water Runoff?

Water that does not soak into the ground or evaporate is called stormwater runoff. Stormwater runoff flows over the ground surface and then into storm drains and ditches that empty directly into our local waterways. Stormwater runoff volumes are greater in cities, villages, and other developed areas because water can't soak through the pavement, rooftops, and concrete.

What is Storm Water Pollution?

Stormwater runoff conveys more than just water to streams, rivers, and lakes. Rain and snowmelt carry dirt, grease, trash and more from roads, parking lots and other hard surfaces into storm drains and ditches, and these empty directly into our waterways. Storm water also carries excess nutrients, like phosphorus, which turns our lakes and streams green and smelly and harms fish. The way to protect and clean our waterways is to make sure only rain—and nothing else—goes into the storm drains and ditches.



What goes in here....



Flows out here.....

Top Ten Things You Can Do to Keep Area Waters Clean



Be a Pooper Scooper: Pick Up After Your Pets

You can flush pet waste down the toilet, bury it 4-6 inches deep in the yard or dispose in a specially designed composter. Do not put it in your vegetable

garden or compost that will be used for your garden.



Keep leaves and grass clippings out of the gutter and storm drains

Use leaves and/or grass clippings as mulch, or add it to a compost pile. Clippings and leaves can also be tilled directly into gardens or flowerbeds. Check the City website to find out when the next leaf, brush and grass clipping pick up is.



Conserve Water: Keep Your Rain

Maximize infiltration in your yard by directing rainwater away from paved areas. Plant a rain garden filled with deep-rooted grasses and wildflowers to maximize water

absorption into the ground. If you don't have a rain garden, aim downspouts to grassy areas or into a rain barrel.



Practice Careful Car Care

Regularly maintain your car and fix any oil, radiator or transmission leak as soon as you see them. If you change your own oil, make sure to take the used oil to a recycling collection site. Never pour it behind the garage, on the driveway to kill weeds or down the storm drain. Also, consider using a commercial car wash, or wash your car on your lawn to prevent carwashing detergents from washing down the storm drain.



Don't overfeed your lawn

Test your soil before buying and applying fertilizer to your lawn. Most lawns don't need phosphorus, so don't pay for something you don't need. If soil tests show that your lawn

does need fertilizer, apply according to manufacturer's instructions. Don't "double the dose".

Be a watershed watchdog

If you see a potential stormwater problem, such as clogged storm drains, trash in the gutter, pollutants washing into or discharging from storm sewers, or uncontrolled erosion from construction sites, contact your City public works department.



Use a proper container for trash and recyclables

Don't put trash into the street or gutter where it can be washed into the storm sewer system and then to local waterways.



Keep soil in your yard and out of our waterways

Bare soil easily washes into the storm drains. Cover exposed soil with seed and mulch as soon as possible. Cover piles of soil for your yard or garden with a tarp until you're ready to use it. If you're building a home, choose a builder who takes extra care not to track mud onto the streets, and who installs and maintains practices that prevent soil from washing off your lot during construction.

Make Friends With Your Watershed

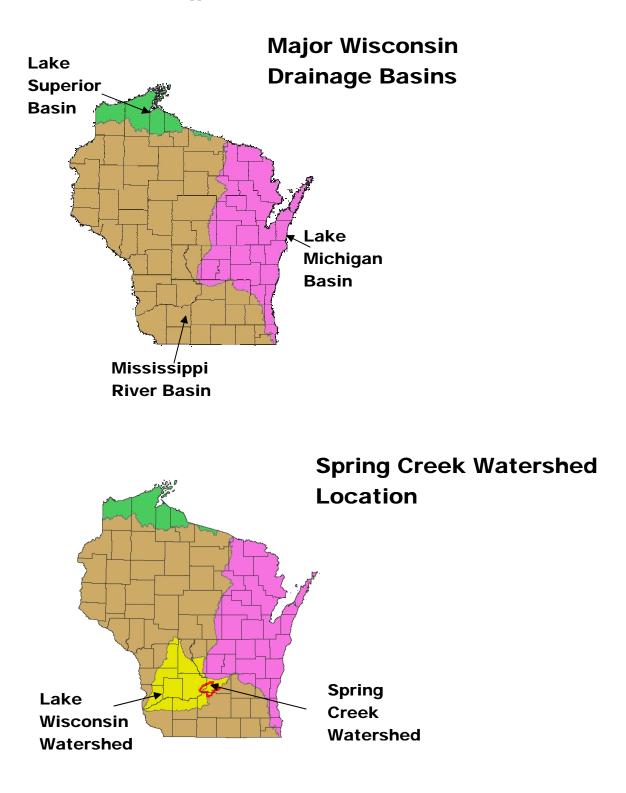
Join a local watershed or conservation group and help clean up Spring Creek. Friends of Scenic Lodi Valley, and Trout Unlimited are a couple example of local groups working to keep area waterways clean

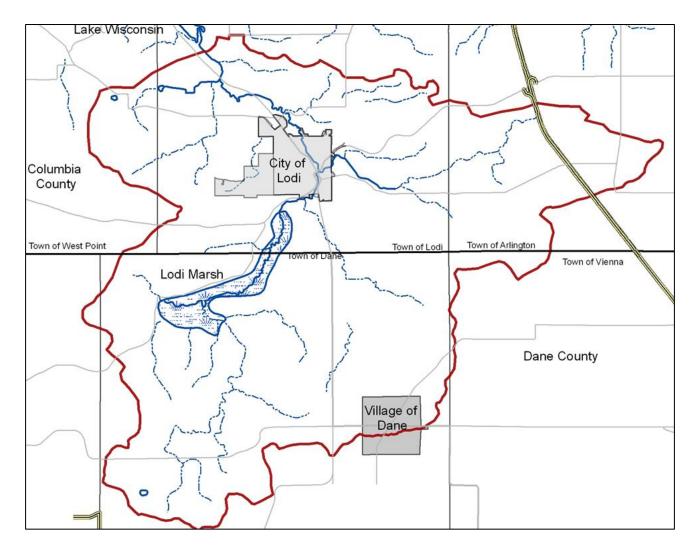
Kick Your Chemical Dependency

Use non-toxic alternatives to conventional household chemicals whenever possible. When not possible, properly dispose of hazardous household chemicals such as oil-based paints, cleaning chemicals, pesticides, solvents, batteries and disinfectants. Never dispose of hazardous chemicals or wash paintbrushes in the storm drain. INSERT INFO ABOUT LOCAL HAZWASTE DISPOSAL PROGRAM

What is a Watershed?

A watershed is an area of land than drains to a particular waterway, be it a lake, stream or river. Your neighborhood, school and workplace are all part of watershed; the roads we drive on and the parks we play in are also part of a watershed. The City of Lodi is located in Spring Creek Watershed. Spring Creek watershed is part of the Lake Wisconsin Watershed. The Lake Wisconsin Watershed is part of the Mississippi River Basin, the area that ultimately drains to the Mississippi River.



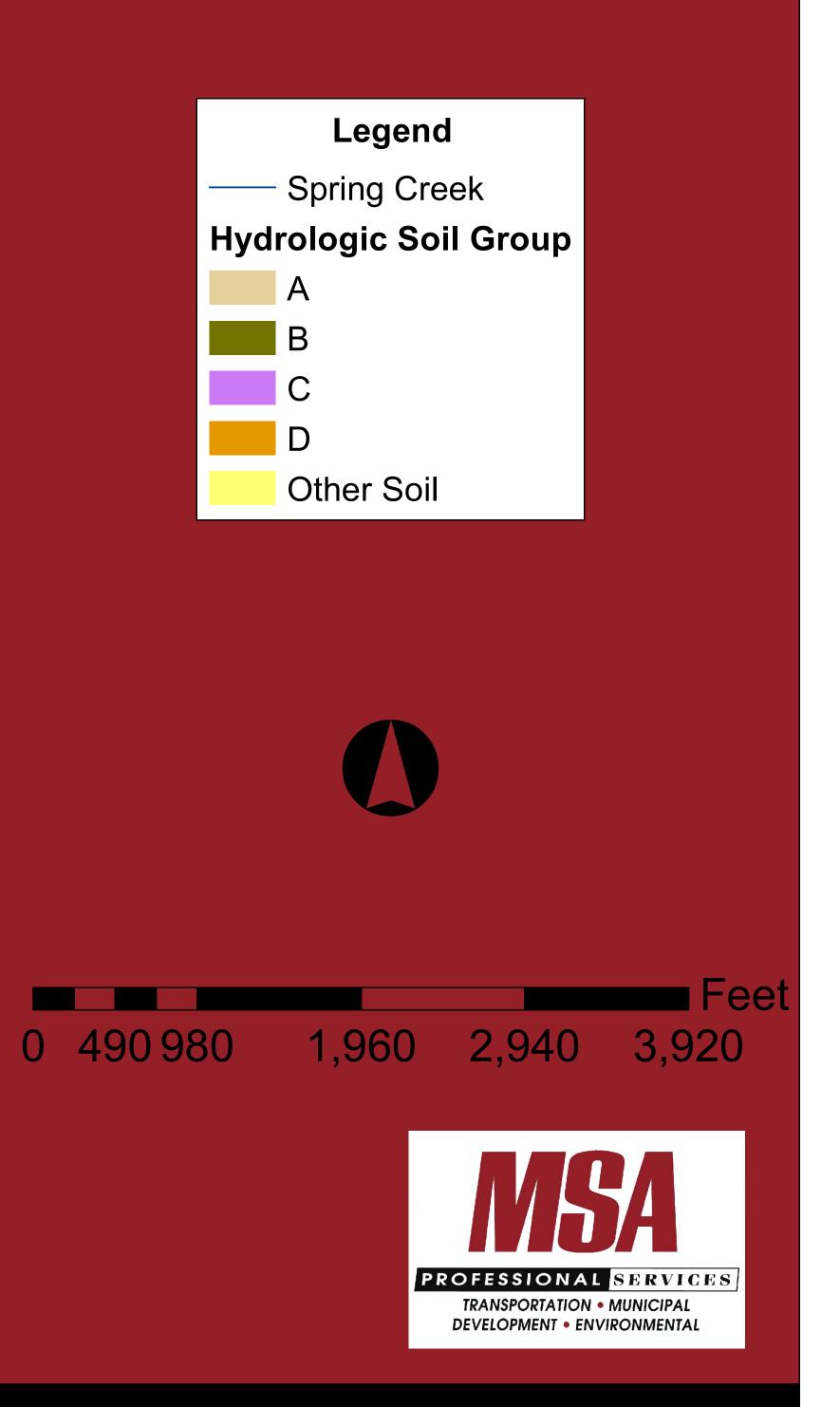


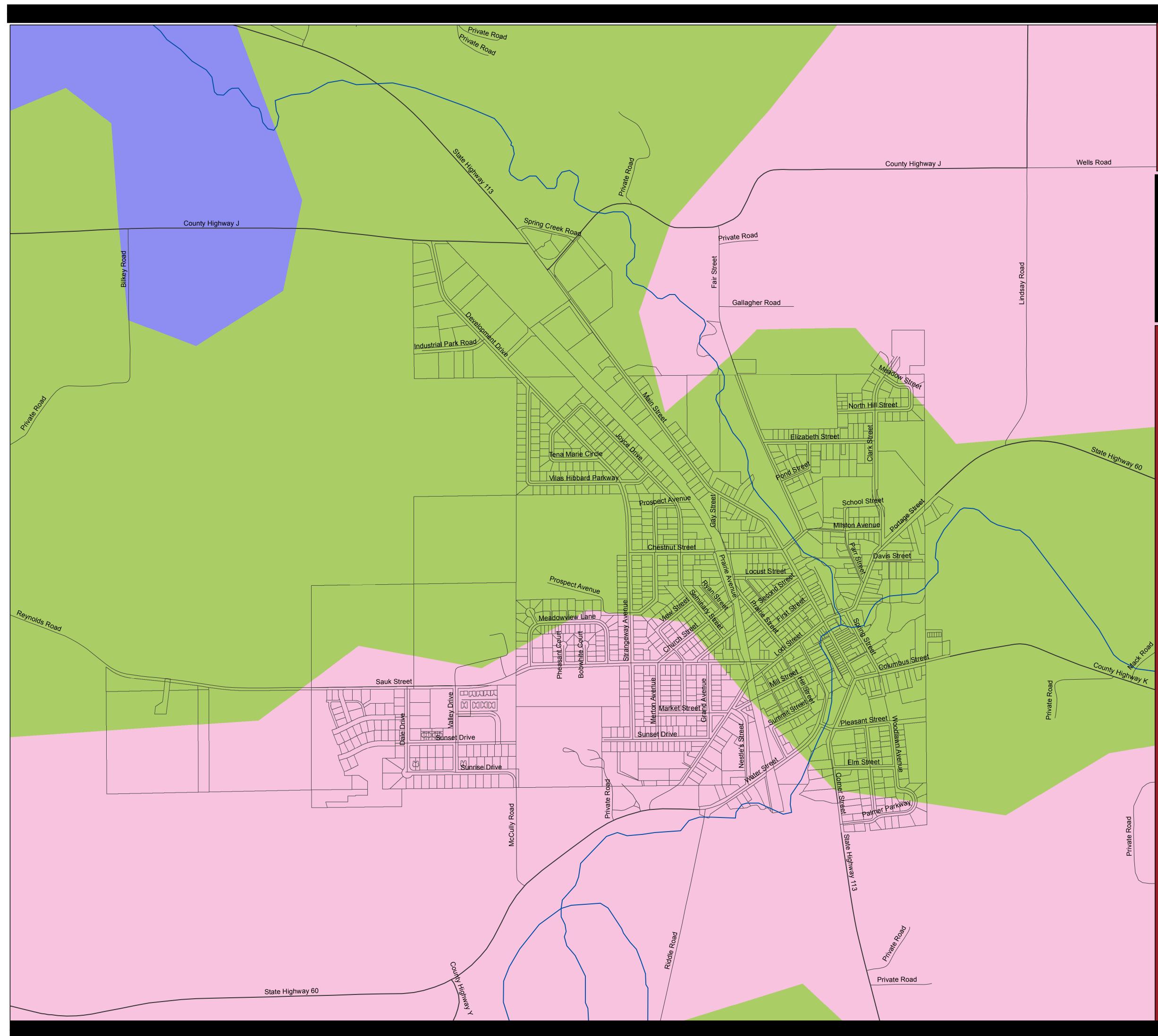
Spring Creek Watershed



Hydrologic Soil Group Map

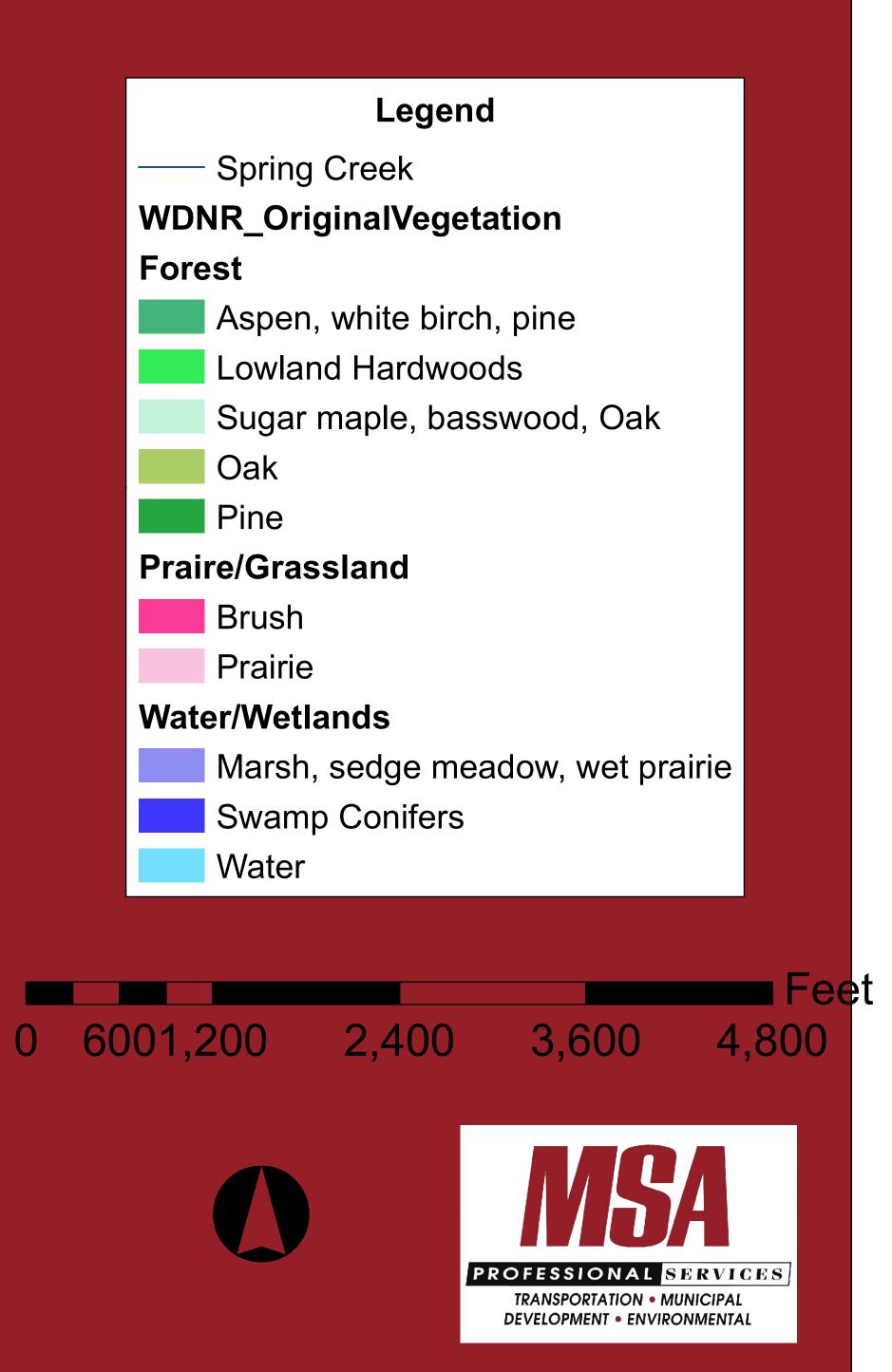
City of Lodi Columbia County, Wisconsin



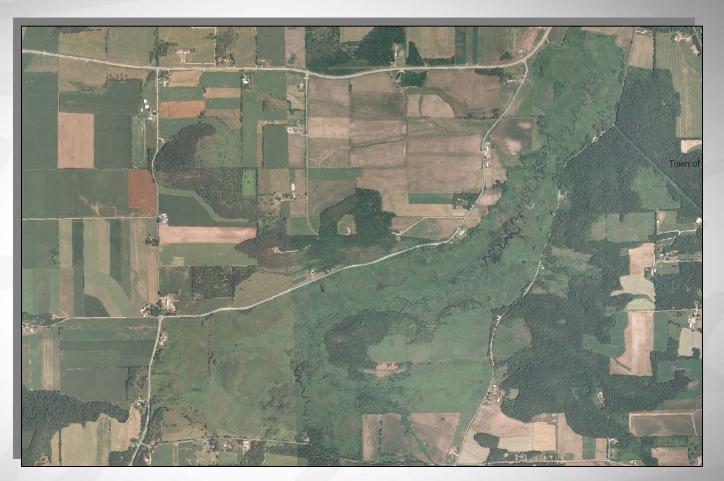


Pre-Settlement Vegetation Map

City of Lodi Columbia County, Wisconsin



Stormwater Runoff & Nonpoint Source Pollution



Impacts on Lodi Spring Creek and its Watershed



Healthy Fish Habitat



Image Source: MSA Professional Services



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Badlands

Image Source: Wisconsin Department of Natural Resources



Home Construction Site



Image Source: Wisconsin Department of Natural Resources



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Home Construction Site



Image Source: USEPA



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Storm Inlet



Image Source: Wisconsin Department of Natural Resources



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Stormwater Runoff is Not Treated



Image Source: Center for Watershed Protection



So, What Goes in Here.... Image Source: BragaVision Media

.....Flows Out Here



Image Source: BragaVision Media

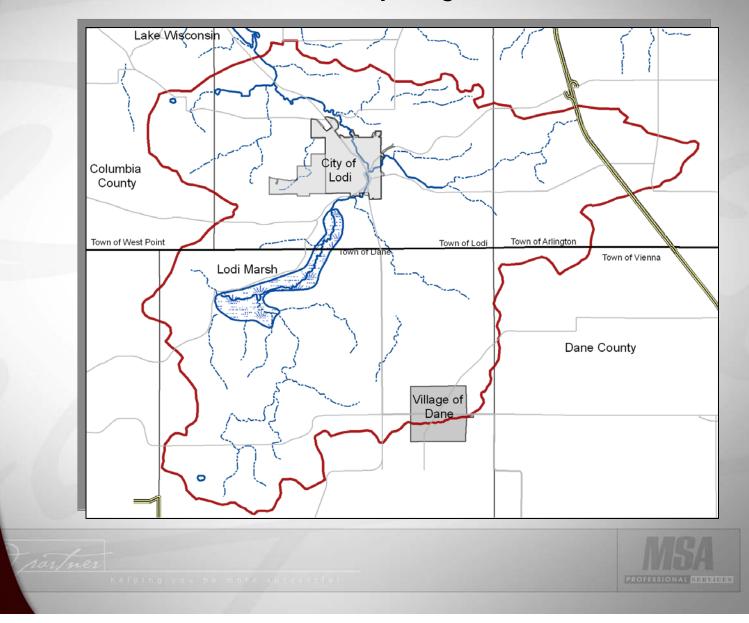


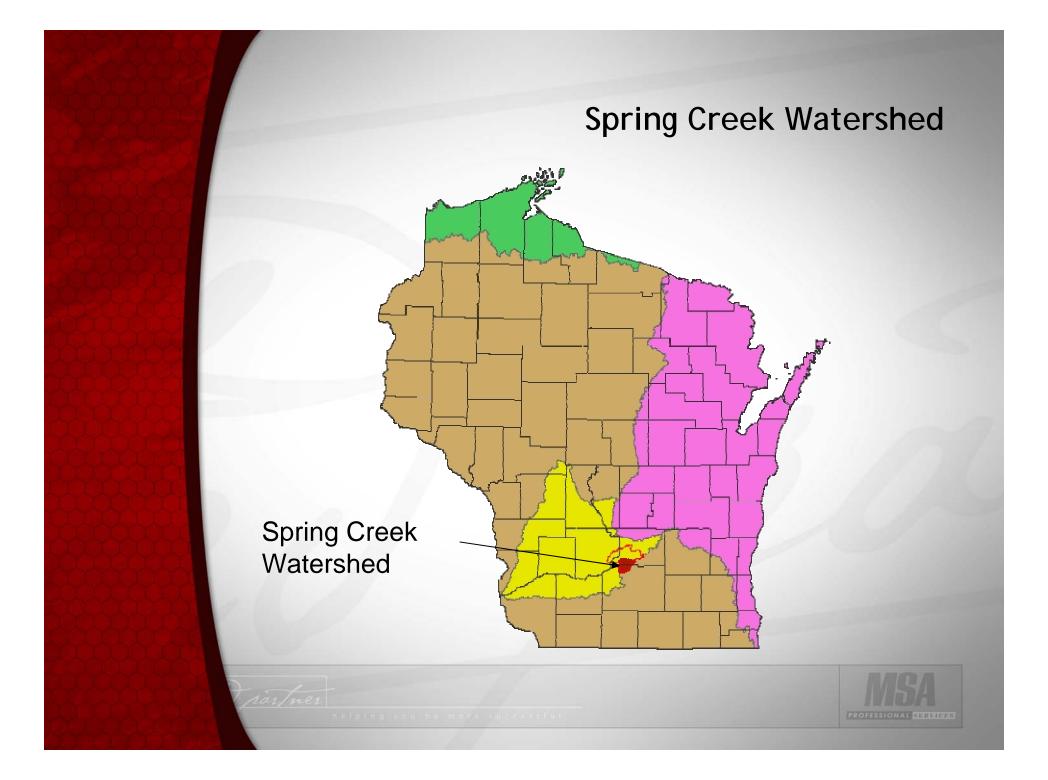
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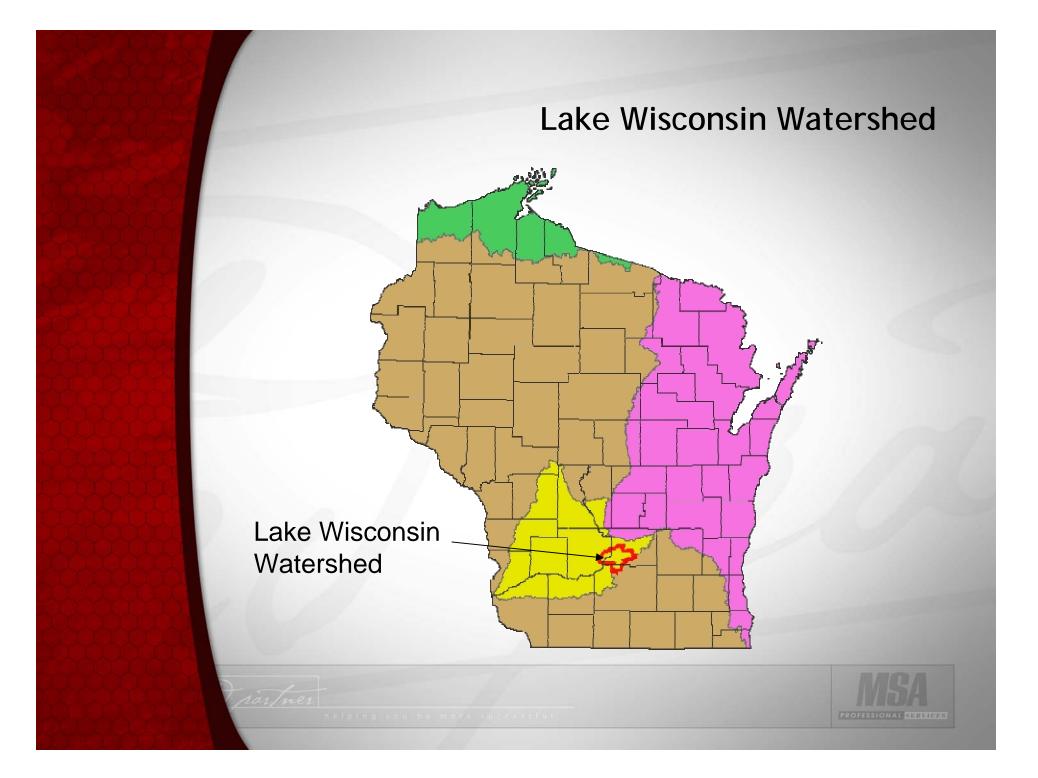
What is a Watershed? Image Source: -Center for Watershed Protection

TRANSPORTATION - MUN DEVELOPMENT - ENVIRON

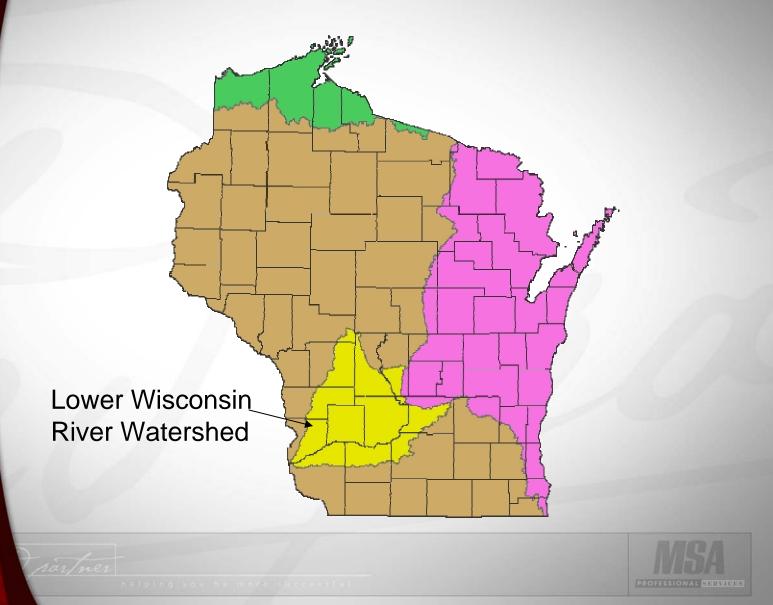
Spring Creek Watershed

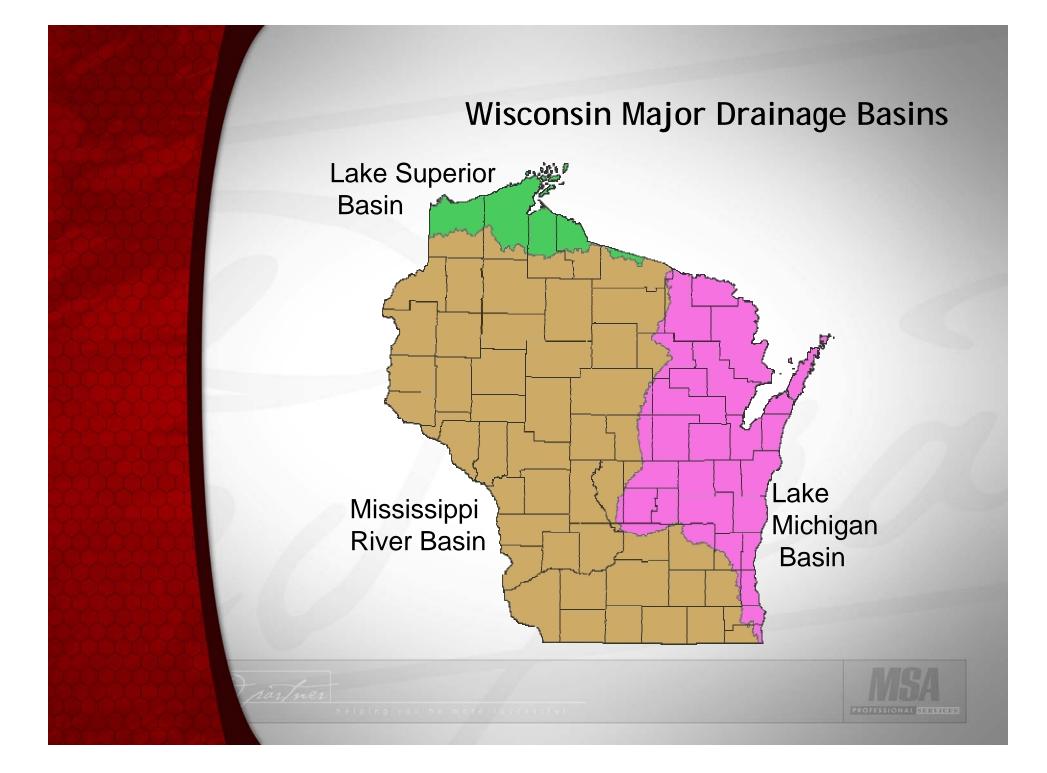


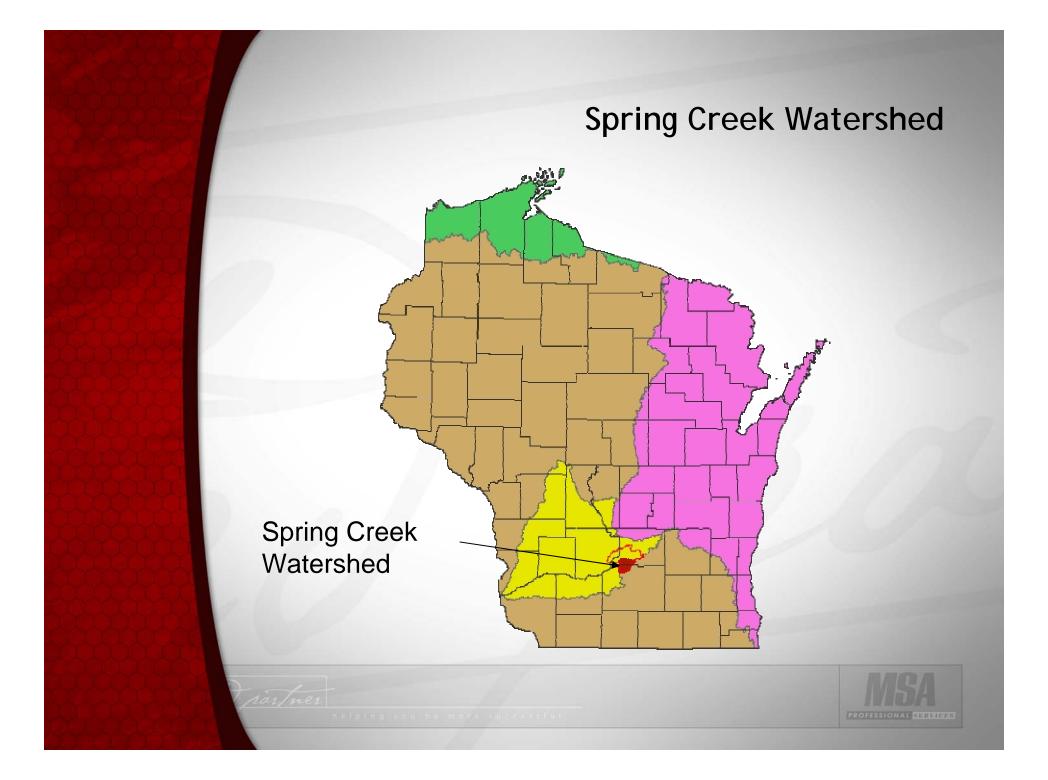




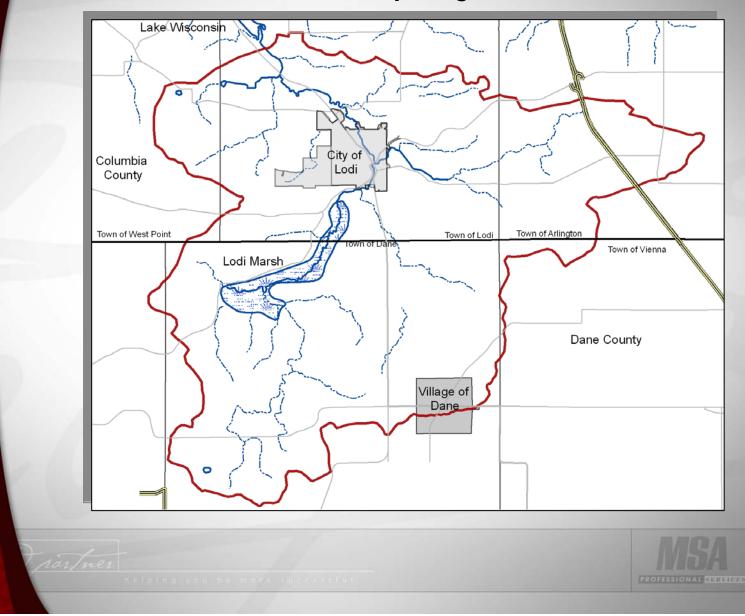
Lower Wisconsin River Watershed

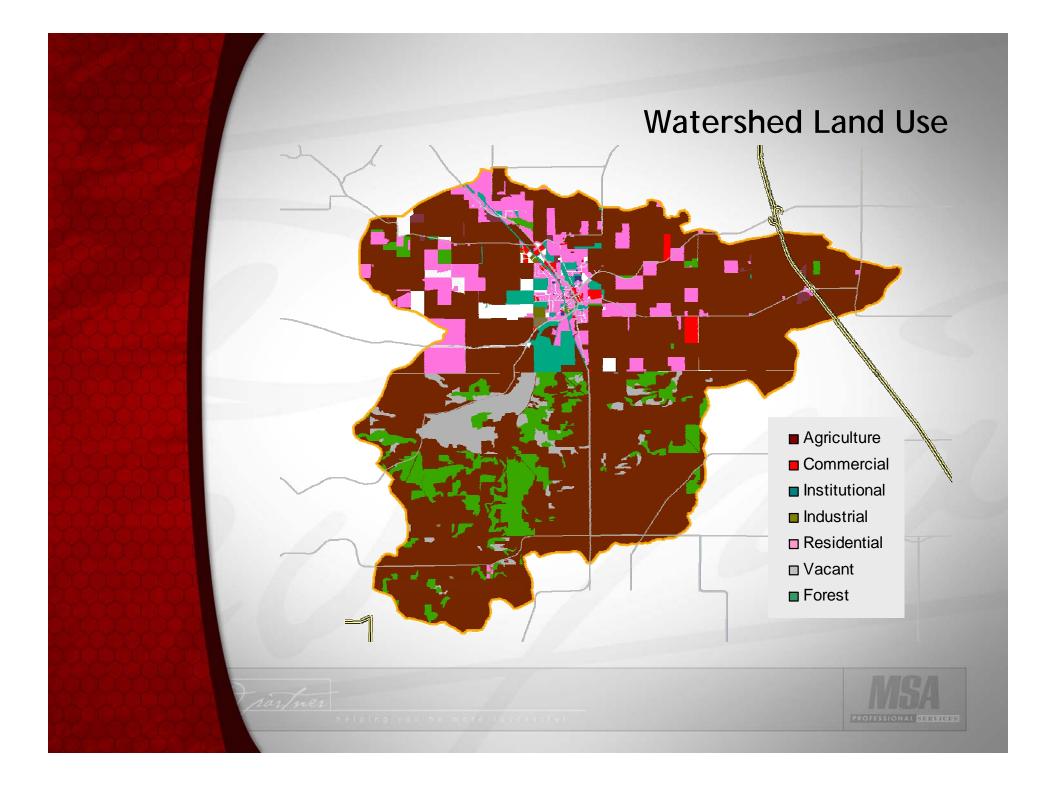


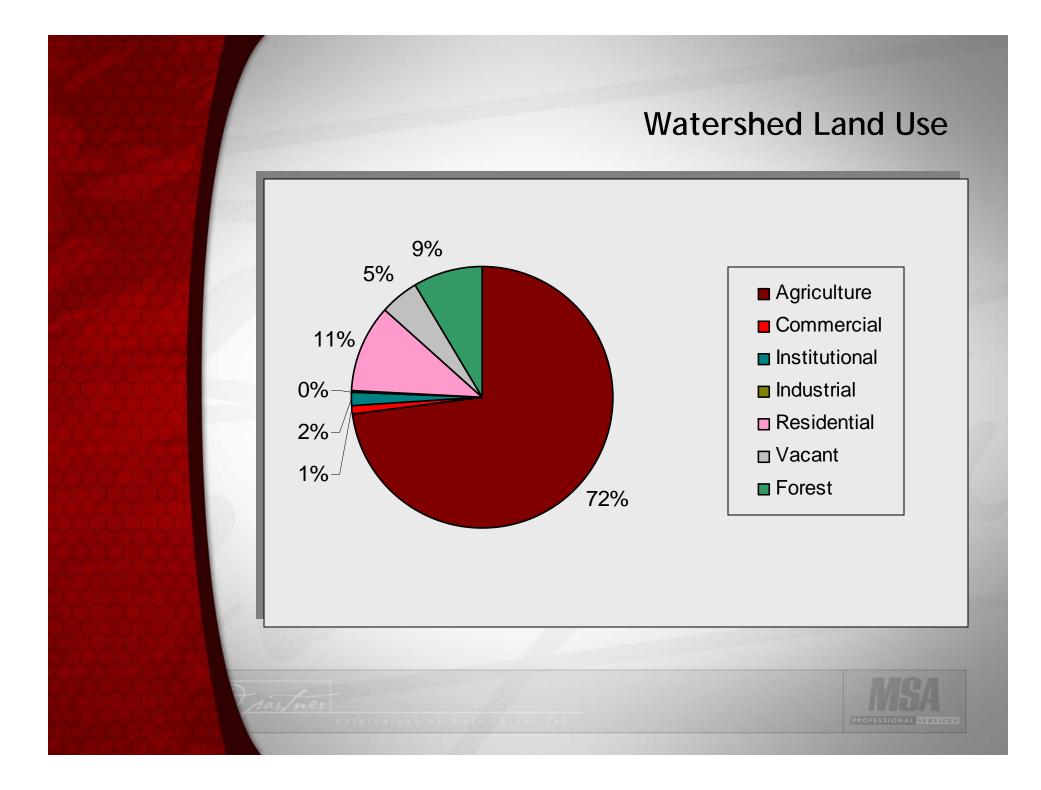




Spring Creek Watershed







Non-Point Source Pollution





Image Source: Center for Watershed Protection (left) Wisconsin DNR (right)



Impacts of Non-Point Source Pollution



Image Source: Wisconsin Department of Natural Resources



Impacts of Non-Point Source Pollution



Image Source: Wisconsin Department of Natural Resources



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Spring Creek

- Boasts some of the best trout populations per mile in the three county area.
- Classified as a Cold II Stream— "a cold water stream capable of supporting coldwater fish and other coldwater aquatic life, with some natural reproduction, however, some stocking is necessary to maintain fisheries."
- Between 1985-1988 the DNR completed over a mile of habitat improvement work between the sewer plant and the park.



Sources: WDNR, Lower Wisconsin State of the Basin Report, July 2002 Larson, Tim, Management of Trout Fishery of Lodi Creek, January 2005.



Stream Impairment

Stream Impairment Impacts

- Habitat
- Temperature

Stream Impairment Sources

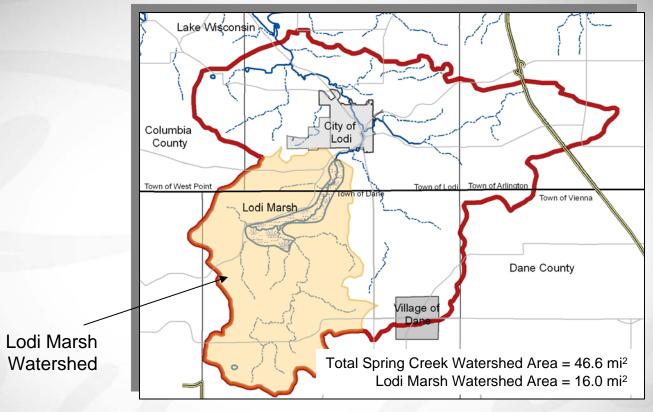
- Nonpoint Source Pollution
- Cropland Erosion
- Point Source Pollution
- Hydrologic Modification (dams, ditching)
- Streambank Pasturing



Sources: WDNR, Lower Wisconsin State of the Basin Report, July 2002



Lodi Marsh Area

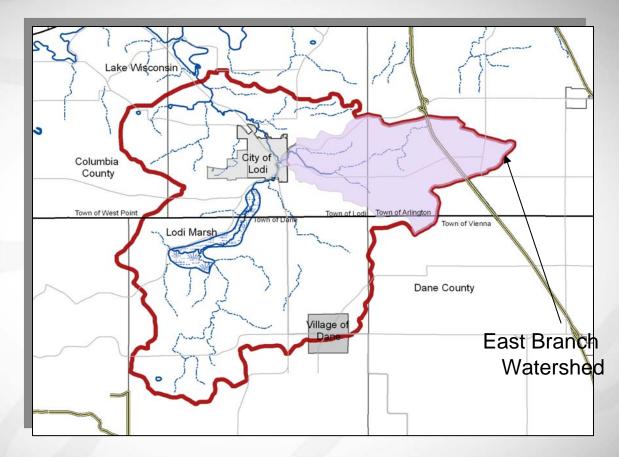


- > Lodi Marsh drains 34% of Spring Creek watershed.
- > Soil loss in rural areas has been estimated to be 6.1 tons/acre/year.
- Within and upstream of Lodi Marsh, the creek is well buffered from agricultural impacts.

Source: WDNR, Lower Wisconsin State of the Basin Report, July 2002.



East Branch



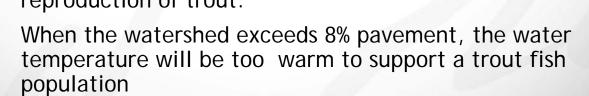
Has the coldest water temperatures, which seldom exceed 60°F.
Supports native brown trout population.

Source: Schlimgen, Jason. Spring Creek Watershed, 2003.



Creek Segments

- Miles 1 through 4 are classified as an exceptional water resource
- Miles 7 through 11 are classified as "threatened", meaning that there is a "clear and imminent threat to existing use"
- Downstream of Lodi there is a decline in natural reproduction of trout.



County

Sources: -WDNR, Lower Wisconsin State of the Basin Report, July 2002. -Tim Larson, DNR Fisheries, personal communication.



Dane County

Silt Fence



Image Source: -Wisconsin Department of Natural Resources



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Silt Fence Image Source: USEPA

Erosion Matting

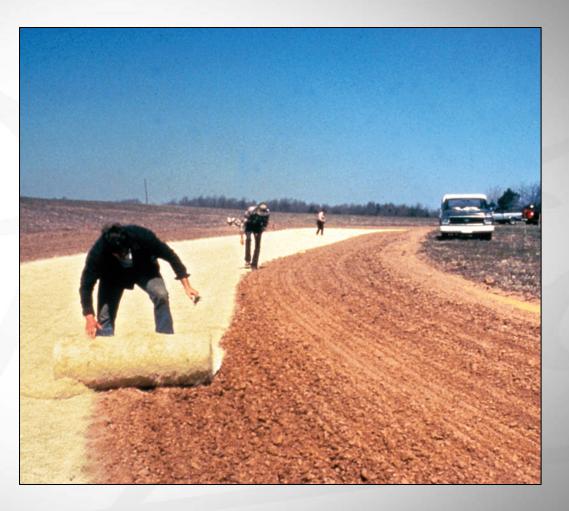


Image Source: USEPA



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Tracking Pad

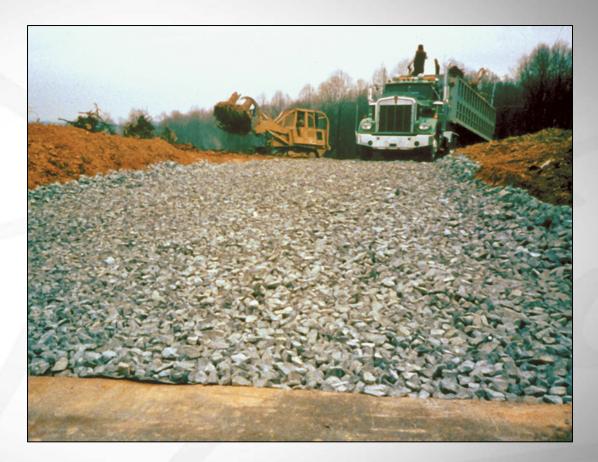


Image Source: USEPA



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Grass Swale Image Source: Wisconsin Department of Natural Resources

Detention Basin



Image Source: MSA Professional Services



Biorention Basin



Image Source: Wisconsin Department of Natural Resources



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Stream Buffer



Image Source: MSA Professional Services



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Wetland Preservation Image Source: MSA Professional Services