| LEGEND | |
|---|---|
| X | Elements required to be included in a GWMP |
| X | Elements that may be reviewed prior to approval by the State Engineer |

| | Legal Requirements | | Metrics/Setting goals | | | | | | | Water budget | | System Knowledge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | GWMP Description | Relevant Citation | Safe/ sustainable yield | Groundwater levels or groundwater quantity | Groundwater quality | Reduction in storage | Land subsidence | Negative impacts on surface water resources | Seawater Intrusion | Recharge | Demand | Conceptual model of aquifer | Aquifer characteristics | Total supply | Water quality | Groundwater and surface water interactions | Climate data | Well locations, well pumping, well spacing |
| Alabama | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Alaska | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Arizona | Top-down: GWMPs are developed at the state level by the Arizona Department of Water Resources for five Active Management Areas (AMAs). Plans are developed every 10 years over the course of a 50 year planning period. Each new plan must be more rigorous than the last in terms of proposing new conservation and management requirements for agricultural, residential, and industrial use. | Arizona Revised Statutes, Title 45, Chapter 2, Article 9 | X | | | | | | | | | | | | | | | |
| Arkansas | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| California | Bottom-up, mandatory: Groundwater Sustainability Plans (GSPs) are required to be developed by Groundwater Sustainability Agencies (GSAs) in designated basins. This planning is new under the Sustainable Groundwater Management Act. | California Code of Regulations, Title 23, Division 2, Chapter 1.5, Subchapter 2. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| Colorado | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Connecticut | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Delaware | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Florida | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Georgia | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Hawaii | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Idaho | Bottom-up, mandatory: GWMPs related to groundwater quantity are required to be developed in areas that have been designated as "critical groundwater areas" by the Department of Water Resources. Local advisory committees then are responsible for developing the plans. | Idaho Statutes, Title 42, Chapter 2, Section 42-233a | | | | | | | | | | | | | | X | | |
| Idaho | Bottom-up, voluntary: GWMPs related to groundwater quality are voluntarily developed at the local level, typically by a stakeholder group put together by the Department of Environmental Quality. The stakeholder groups are formed after the DEQ identifies high levels of nitrates in an area. Development and implementation of a GWMP by the stakeholder group is completely voluntary. | https://www.deq.idaho.gov/water-quality/ground-water/management-plans/ | | | | | | | | | | | | | | | | |

| LEGEND | |
|---|---|
| X | Elements required to be included in a GWMP |
| X | Elements that may be reviewed prior to approval by the State Engineer |

| | Legal Requirements | | Metrics/Setting goals | | | | | | | Water budget | | System Knowledge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | GWMP Description | Relevant Citation | Safe/ sustainable yield | Groundwater levels or groundwater quantity | Groundwater quality | Reduction in storage | Land subsidence | Negative impacts on surface water resources | Seawater Intrusion | Recharge | Demand | Conceptual model of aquifer | Aquifer characteristics | Total supply | Water quality | Groundwater and surface water interactions | Climate data | Well locations, well pumping, well spacing |
| Illinois | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Indiana | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Iowa | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Kansas | Bottom-up, mandatory: The state has designaged five separate Groundwater Management Districts (GMD) each of which is required to develop a GWMP; GMDs are located in areas of the state that rely on withdrawals from the Ogallala aquifer, and the rest of the state is covered by the Water Appropriation Act. | Kansas Statutes Annotated, Chapter 82a, Article 10, Section 1041 | X | | | | | | | | | | | | | | | X |
| Kentucky | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Louisiana | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Maine | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Maryland | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Massachusetts | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Michigan | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Minnesota | Top-down: GWMPs are developed by the Department of Natural Resources with the assistance of a local project advisory team. Three plans have been developed as pilot plans to better understand groundwater management and how plans can be developed and implemented in other parts of the state. | Minnesota Statutes, Chapter 103G, Section 103G.287, Subdivision 4 | | | | | | | | | | | | | | | | |
| Mississippi | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Missouri | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Montana | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |

| LEGEND | |
|---|---|
| X | Elements required to be included in a GWMP |
| X | Elements that may be reviewed prior to approval by the State Engineer |

| | Legal Requirements | | Metrics/Setting goals | | | | | | | Water budget | | System Knowledge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | GWMP Description | Relevant Citation | Safe/ sustainable yield | Groundwater levels or groundwater quantity | Groundwater quality | Reduction in storage | Land subsidence | Negative impacts on surface water resources | Seawater Intrusion | Recharge | Demand | Conceptual model of aquifer | Aquifer characteristics | Total supply | Water quality | Groundwater and surface water interactions | Climate data | Well locations, well pumping, well spacing |
| Nebraska | Bottom-up, mandatory: GWMPs are required by the state and developed by 23 separate Natural Resource Districts. There are no update requirements; any plan updates are determined on a district by district basis. | Nebraska Revised Statutes, Chapter 46, Section 709 | | X | | | | | | X | X | | X | | X | | X | |
| Nevada | Bottom-up, voluntary: Once the State Engineer has designated a basin as a "critical management area," local groups can develop and submit GWMPs to the state engineer for approval. If a GWMP is not approved within 10 years of the CMA designation, then withdrawals in the basin must conform to priority water rights. | Nevada Revised Statutes Chapter 534, Section 037 | | | | | | | | | | | X | | X | | | X |
| New Hampshire | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| New Jersey | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| New Mexico | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| New York | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| North Carolina | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| North Dakota | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Ohio | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Oklahoma | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Oregon | Bottom-up, mandatory: Development of groundwater action plans is required in areas designated as a Groundwater Management Areas (GWMAs) by the state Areas are designated as GWMAs when there is widespread contamination in a basin. The local committees and interested parties work with state agencies to develop the content of the action plan. | Oregon Revised Statutes, Chapter 468B, Section 468B.180 | | | | | | | | | | | | | | | | |
| Pennsylvania | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Rhode Island | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| South Carolina | Bottom-up, mandatory: GWMPs are required to be developed in areas where excessive groundwater withdrawal may affect natural resources or public health. GWMPs can be developed either by the state alone or by the state in conjunction with local governing bodies and groundwater users. | South Carolina Code of Laws, Title 49, Chapter 5 | | | | | | | | | X | | X | X | | | | X |

| LEGEND | |
|---|---|
| X | Elements required to be included in a GWMP |
| X | Elements that may be reviewed prior to approval by the State Engineer |

| | Legal Requirements | | Metrics/Setting goals | | | | | | | Water budget | | System Knowledge | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| State | GWMP Description | Relevant Citation | Safe/ sustainable yield | Groundwater levels or groundwater quantity | Groundwater quality | Reduction in storage | Land subsidence | Negative impacts on surface water resources | Seawater Intrusion | Recharge | Demand | Conceptual model of aquifer | Aquifer characteristics | Total supply | Water quality | Groundwater and surface water interactions | Climate data | Well locations, well pumping, well spacing |
| South Dakota | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Tennessee | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Texas | Bottom-up, mandatory: GWMPs are required by the state and developed by Groundwater Conservation Districts. Each district must develop Desired Future Conditions (DFCs) for their system based on extensive modeling efforts. | Texas Water Code, Title 2, Subtitle E, Chapter 36, Section 36.1071 | | X | | | X | X | | X | X | X | | X | | X | | |
| Utah | Top-down: GWMPs are developed and implemented by the State Engineer for 13 critical management areas, defined as areas that consistently exceed safe yield. The objective of developing a management plan is to limit groundwater withdrawals to safe yield. | Utah Code, Title 73, Chapter 5, Section 15 | X | | | | | | | | | | X | | X | X | | X |
| Vermont | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Virginia | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Washington | Bottom-up, mandatory: GWMPs are required by the state and developed by local groundwater user groups/government in cooperation with the department. Most plans are no longer in use. New plans have not been developed due to EPA designating areas as sole source aquifers, which are subject to different regulations. | Washington State Legislature, Title 173, Chapter 173-100, Section 173-100-100 | | X | X | | | | | | X | | X | | X | | | |
| West Virginia | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |
| Wisconsin | Bottom-up, voluntary: GWMPs may be voluntarily by the county, which is authorized to produce plans through planning and zoning laws set forth in the state statutes. | Wisconsin State Legislature, Chapter 59, Subchapter VII, Section 59.69 | | | | | | | | | | | | | | | | |
| Wyoming | Formal groundwater plans are not used. Groundwater may be addressed through other water resources planning documents (state water plan, integrated management plans, or basin management plans). | N/A | | | | | | | | | | | | | | | | |