

**Guidelines for Filing a plan
for Creation of an Irrigation District with
the State Engineer**

1. A map showing the general description of lands to be Included in the proposed district.
2. A copy of the proposed petition to the Court to Form the irrigation district. A final copy should be submitted upon approval by the District Court.
3. A Preliminary Engineering Feasibility Report on the project, including a water supply report.
4. An approximate area of the irrigable land within the proposed District, including an estimate of the cost of construction.

Specific items to be included in the Engineering Feasibility Study:

1. Certification by a professional engineer licensed in Wyoming that the project is engineering and economically feasible.
2. Location and size (acres/square mile).
3. Physical characteristics of area
 - a. Terrain
 - b. Mean sea level elevation
 - c. Water rights, original, supplemental, and reservoir storage
 - d. Type of irrigation method(s) to be used
 - e. Acres presently being irrigated, including both adjudicated and non-adjudicated rights
 - f. Topography of irrigated land
 - g. Soil type, based upon USDA soil classification
 - h. Types of crops to be grown, and percentage breakdown
 - i. Principal farm enterprise, ranching, farming, dairying, etc.
1. Current land use of proposed irrigation project and ownership. Summarize both by acres and percentage.
2. Briefly describe and summarize the local economy and the effects of this project on the same.

3. Briefly summarize the hydrology of the area, describing major streams, etc.
4. Briefly address watershed problems such as flooding potential and plans for protection, erosion control, channel scouring, etc.
5. Considerable discussion should be given towards efforts of water management both within the District, and the downstream effects from drains, seepage, etc. Included in this area of discussion should be the percentage increase in productive, improved water management practices, and the number of individual farm units to be included.
6. The physical delivery system should be discussed to insure adequate capacity is planned to meet the water needs of all members of the District.
7. Briefly address any land treatment needs which will be necessary. This may include land leveling, sagebrush control, other related factors.
8. Economic evaluation: The area is very critical to the project. What will be the cost of flood protection, delivery and distribution system, average annual farming expenses, and what markets are available to the District? The economic package should be calculated in terms of average annual cost per acre for a fixed evaluation period and rate of interest. Further, what are the benefits on a per acre basis?
9. The benefit/cost ratio should then be presented based on the items presented in Section 11.
10. Environmental Factors: Are there any unique types of geographical, cultural, or biological resources which may be either adversely or positively affected by the formation of the irrigation district?