Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Running A Farm

Instructions:

* You are a famer with 10 acres of land. Your parcel of land is divided into 10, one-acre lots below. You own water rights for 15-acre feet or 180-acre inches to irrigate. You need to utilize as much of this water as possible or you will not receive this amount next year.
* Using the table below, determine what you would like to plant on your 10 acres.
* Draw or write what you will plant in each 1-acre lot along with the inches per acre of water it will require.
* Total the number of inches required for each column and your grand total amount of acre inches needed for the plants selected. Remember that you cannot go over 180-acre inches for your total water needs or your plants will not receive enough water and will be stressed or possibly even die.

Table 1: Variety of plants/crops and the estimated amount of water required per 1-acre during the growing season.

|  |  |  |  |
| --- | --- | --- | --- |
| Crop/Plants | Water in inches per acre | Crop/Plants | Water in inches per acre |
| Rangeland for grazing (sagebrush and native plants) | 8-12” | Corn | 27” |
| Dry beans | 17” | Alfalfa hay (to feed livestock) | 41” |
| Wheat  | 22” | Turf for sale to homeowners or personal lawn | 39” |
| Teff (A grain predominantly grown in Ethiopia. Nevada farmers are experimenting with growing it here due to its drought tolerance.) | 6” | Lettuce | 12” |

My Farm

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|  |  |
| Total inches of water needed for your crops planted in column 1: \_\_\_\_\_\_\_\_\_\_\_\_ | Total inches of water needed for your crops planted in column 2: \_\_\_\_\_\_\_\_\_ |

Grant total of inches of water needed for your ten-acre plot: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_