

Operational Costs for Carcass Management Calculator in New Mexico

Objective

The statewide [emergency disposal plan](#) requires the development of tools that can assist producers or emergency responders in cases of mass mortality events. This manual details the instructions for an Excel-based calculator that facilitates financial planning for carcass disposal corresponding to mass mortality events. The calculator may serve as a time-saving device for emergency responders and livestock owners.

Calculator Instructions

User Supplied cells are defined by pink cells. Total costs will be calculated in the green highlighted cells on each page.

Assumptions Page

Begin by entering the number of livestock to be disposed of, and their weight into the corresponding cells. While this calculator can be used for any livestock, all assumptions and parameters are assumed as cattle.

Fill in the cells regarding the location of the operation. This will aid both producers and emergency responders in keeping carcasses on-site when they need to be. Additionally, it may aid in the calculation of transportation mileage.

Using the time allotted table, indicate how many days are available for disposal in the pink cells. This will automatically assume there are 12 working hours in one day. These cells assume the following:

Burial – 60 carcasses/day

Composting – 160 carcasses/day (initial process)

Landfilling – 350 carcasses/day

Open Air Burning – 100 carcasses/day

Alternative Use – 300 carcasses/day

Using the pink cells in the PPE Cost table, indicate how many of the corresponding articles of PPE are needed.

In Equipment cost, indicate how many of each listed equipment is needed. For example, if a loader or excavator is not owned, indicate how many are needed in the fillable cell. This will calculate how many will need to be rented.

In supplies, indicate the unit cost of each of the supplies listed.

In labor, indicate the amount of personnel needed for each position, as well as their hourly pay rates. This may include employees already in the operation that will be working on the disposal process.

Burial

Under the Equipment rental table, indicate the quantity needed for each listed piece of equipment.

Under Transportation indicate the quantity needed for transportation.

In supplies, indicate the necessary quantities in the pink cells.

Under Trench Dimensions, indicate the dimensions of the trench that is planned to be constructed.

Fence Dimensions will automatically be calculated by $(\text{Trench Length (ft)} + 2) + (\text{Trench Width (ft)} + 2)$.

It is assumed one bovine carcass requires 6 cubic feet of land to be buried. The Number of Trenches table will calculate how many trenches are needed to bury the total amount of carcasses.

Composting

Using the pink cells in the Labor table, indicate the required amount of personnel for each position listed

Under Equipment Rental, indicate the quantity needed and the number of days that are needed next to each piece of equipment listed.

Using the supplies table, indicate how many disinfectant sprayers are required

Under Window Dimensions, indicate the approximate width of the windrows to be constructed.

Open Air Burning

Using the Equipment Rental table, indicate the quantity needed for the listed equipment

Under Transportation indicate the quantity needed for transportation and the quantity of days the transportation is needed

In supplies, indicate the necessary quantities in the pink cells.

Using the Window Dimensions Table, indicate the width preferred or available.

Landfill

Using the Equipment Rental table, indicate the quantity needed for the listed equipment

In the transportation table, enter the amount of roll off containers and dump trucks needed. Then, indicate the miles to the landfill of choice from the site.

Under Tipping Fees, indicate the tipping fee for the landfill of choice.

Rendering

Using the Equipment table, indicate the quantity of loaders needed in the pink cell.

In the Transportation table, enter the miles to the rendering location chosen by the operation.

Alternative Use

In the Labor table, enter the number of employees needed for each position.

Using the transportation table, indicate the number of Cattle Haulers needed.

Under the Mileage Calculation, enter the number of miles to the facility chosen by the operation.