

Trench Worksheet

FIXTURE COUNT CALCULATION CHART

FIXTURE TYPE	UNIT		# OF FIXTURES		TOTAL FIXTURE UNITS
Bath Tub	2	X		=	
Bidet	2	X		=	
Clothes Washer	2	X		=	
Dishwasher (separate from kitchen)	2	X		=	
Lavatory (bathroom sink), single	1	X		=	
Lavatory, double in master bedroom	1	X		=	
Shower, single stall	2	X		=	
Sink, bar	1	X		=	
Sink, kitchen (including dishwasher)	2	X		=	
Sink, service	3	X		=	
Utility Tub or Sink	2	X		=	
Water Closet (toilet), 1.6 GPF	3	X		=	
Water Closet (toilet), >1.6 – 3.2 GPF	4	X		=	
Water Closet (toilet), >3.2 GPF	6	X		=	
TOTAL FIXTURE UNITS:					

Items in BOLD are the most commonly used fixtures

"Bedroom" means, for the purposes of determining design flow for an on-site wastewater treatment facility for a dwelling, any room that has:

- a) Floor space of at least 70 square feet in area, excluding closets;
- b) Ceiling height of at least 7 feet;
- c) Electrical service and ventilation;
- d) A closet or an area where a closet could be constructed;
- e) At least one window capable of being opened and used for emergency egress; and
- f) A method of entry and exit into the room which allows it to be considered distinct from other rooms in the dwelling to afford a level of privacy customarily expected for such a room.

Bedroom/Equivalent Worksheet

Room Type	Number of Rooms
Bedroom	
Den	
Office	
Other:	
Other:	
Other:	
Total:	

TRENCHES HAVE A MAXIMUM OVERALL DEPTH OF FIVE (5) FEET ABOVE DEPTH OF TEST HOLE

TANK SIZE (from <i>Septic System Sizing Chart</i>)	=	
DESIGN FLOW (from <i>Septic System Sizing Chart</i>)	=	
PERCOLATION RATE (from the <i>Soils Report or Disposal Area Calculation Table</i>)	=	
SOIL ABSORPTION RATE (from the <i>Soils Report or Disposal Area Calculation Table</i>)	=	
TOTAL SQUARE FOOTAGE REQUIRED (divide <i>DESIGN FLOW</i> by <i>SAR</i> or use <i>Design Flow Calculation Table</i>)	=	
DIVISOR USED (see Example Calculations for detailed instructions)	=	
TOTAL LINEAR LENGTH OF TRENCH REQUIRED (divide <i>TOTAL SQUARE FOOTAGE</i> by <i>DIVISOR</i>)	=	

Proposed Number of Trenches	
Proposed Length of each Trench	
Proposed Width of each Trench	
Proposed Effective Depth of each Trench	
Proposed Overall Depth of each Trench	
Separation Between Trench Edges	

- The maximum length for any disposal field is 100'. If the total linear length of trench is greater than 100', use a distribution box to divide the total length into multiple trenches of equal length to distribute the effluent more effectively throughout the disposal field.
- The separation between the trench walls is a minimum of 5' or twice the effective depth, whichever is greater.
- Additional inspection risers, placed in the center of the trench, are required for any trench greater than 50' in length.