

Watering Basics	
No. of Animals (A) ____ Daily water needs (W) <u>20</u> * ____ gal/day/pair Tank Capacity (C) ____ gal. Individual Watering Math * cow/calf pair (can be changed for other stock/reason)	
Intensive Grazing System (Individuals water alone)	
Pipeline Capacity (Q) gpm = [(A x W) - C] ÷ 720 = ____ gpm	
OR: (PICK ONE OR OTHER BASED DISTANCE TO H2O)	
Herd Watering Math	
<u>Herd Watering</u> (assume 3 watering events/day, 30 min. per watering event)	
Use the greater of these two equations:	
Pipeline Capacity (gpm) $Q = [(A \times W \div 3) - C] \div 30 =$ _____ gpm (is trough large enough?)	
$Q = A \times W \div 240 =$ _____ gpm (is supply rate enough?)	
Livestock H2O sources (Pond, Well, Creek, Rural Water, Other _____)	
Are sources dependable (Yes No) _____ Are troughs frost free? (Yes No) _____	
Pump type if applicable (electric, solar, ram, nose, other _____)	
Location/elev. of pressure tank _____ Depth to static water level in well _____ ft.	
Pressure tank settings: Current: On ____ p.s.i., Off ____ p.s.i.	
Possible: On ____ p.s.i., Off ____ p.s.i.	
Capacity of pressure tank ____ gallons	
Pond water elevations: trough outlet _____ & highest water elev. _____	

Livestock Information

		# of Head Current & (Planned)	Average Weight	Default Weight
CATTLE	COW			1300
BISON	CALF NOT WEANED			400
ELK (75% AUE)	YEARLING/REPLACEMENTS			1050
	BULLS			2100
	STOCKERS/BACKGROUND			750
<i>Sheep</i>	<i>Ewe</i>			140
	<i>Replacement ewe lambs</i>			100
	<i>Ram</i>			160
	<i>Market lambs</i>			90
HORSES	MARES/STUDS/GELDINGS			1100
	YEARLINGS			800
Spanish Goats	Nannies			135
Boer Goats	Kids			70
Dairy Goats	Billies			200
Alpacas/Llamas				150/300

Grazing Months for this pasture system

(Yearlong, Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec.)

Breeding Season (Year round, 90 day, 60 day, AI, Embryo Trans, Other _____)

Birthing Months (Yearlong, Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec.)

Weaning Months (Yearlong, Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec.)

Number of Herds (1 2 3 4 more _____)