

MANURE AND WATER MANAGEMENT SYSTEMS

VERTICAL TURBINE PUMPS (base depth = 100 feet)

If the motor horsepower, flow and depth are known, enter the table directly, adding or subtracting 5% of the base cost for each 20 feet of depth variation from the 100-foot base.

If the depth is not known, the other figures will give an approximation of average cost based on flow and motor capacity.

If the flow capacity is not known, the underlined figures are the average costs.

Costs are averages including motor, pump electric panels, starters, switches and complete installation, but do not include the cost of electric service to site or well costs.

CAPACITY (GPM)	MOTOR HORSEPOWER											CAPACITY (GPM)	
	5	10	30	50	75	100	150	200	250	300	400		500
200	<u>\$7,150</u>	\$ 7,675	----	----	----	----	----	----	----	----	----	----	200
400	8,200	<u>8,600</u>	----	----	----	----	----	----	----	----	----	----	400
600	9,450	9,975	\$11,450	----	----	----	----	----	----	----	----	----	600
800	----	11,450	12,925	----	----	----	----	----	----	----	----	----	800
1,000	----	12,925	<u>14,375</u>	\$16,175	----	----	----	----	----	----	----	----	1,000
1,500	----	----	17,850	19,625	----	----	----	----	----	----	----	----	1,500
2,000	----	----	21,200	<u>22,775</u>	\$25,000	----	----	----	----	----	----	----	2,000
2,500	----	----	----	26,675	28,350	\$30,350	----	----	----	----	----	----	2,500
3,000	----	----	----	29,725	<u>31,300</u>	33,075	\$37,075	\$ 41,475	\$ 46,300	----	----	----	3,000
4,000	----	----	----	----	37,700	<u>39,700</u>	44,100	49,150	54,400	\$ 60,475	----	----	4,000
5,000	----	----	----	----	43,775	45,775	50,200	55,125	60,575	66,350	\$ 80,000	----	5,000
6,000	----	----	----	----	----	47,675	<u>55,975</u>	<u>60,475</u>	66,150	71,825	85,150	\$100,375	6,000
8,000	----	----	----	----	----	----	67,825	73,075	<u>78,325</u>	<u>84,100</u>	97,225	111,925	8,000
10,000	----	----	----	----	----	----	80,950	86,100	91,550	97,550	<u>110,350</u>	<u>124,750</u>	10,000
12,000	----	----	----	----	----	----	----	100,375	106,150	111,925	124,850	139,450	12,000

WELL JET SYSTEMS

Well jet system cost includes motor, pump, piping at well, drilling and casing.

Add for storage tanks. For precharged tanks, add 75%.

PUMP (HP.)	SHALLOW		DEEP		WATER TANKS	
	(to 25' Depth)	(to 100' Depth)	SIZE (Gal.)	COST	SIZE (Gal.)	COST
1/3	\$1,375	\$3,025	12	\$ 75	120	\$250
1/2	1,500	3,200	21	95	220	540
3/4	1,700	3,375	40	125	315	710
1	1,825	3,550	80	170	525	965
1-1/2	2,025	3,800				

SLURRY TANKS

Costs are averages for glass-lined slurry storage tanks with ladder, erected on buyers' slabs. For concrete slab, add \$4.10 to \$4.60 per cubic foot of concrete. For pumps, see below.

DIA.	HEIGHT	COST	DIA.	HEIGHT	COST
25'	14'	\$24,400	81'	14'	\$ 75,800
	23'	27,300		19'	92,200
42'	14'	33,400		23'	112,100
	23'	45,050	101'	14'	95,150
62'	14'	49,550		19'	119,500
	23'	73,150		23'	148,950

WINDMILLS

Cost includes steel wheel and tower complete, excluding well.

TOWER HEIGHT	WINDMILL SIZE					
	6'	8'	10'	12'	14'	16'
21'	\$3,925	\$4,075	\$5,400	----	----	----
27'	4,200	4,350	5,850	\$8,000	\$11,350	----
33'	4,750	4,850	6,300	8,650	12,600	\$15,425

LIQUID MANURE TANKS

Cost per cubic foot for complete concrete tanks. For plank cover, deduct \$3.05 per square foot of top; for no cover, deduct \$6.15. Rectangular tanks, \$2.05 – \$3.10; round tanks, \$1.75 – \$2.55; open pits, concrete, \$1.15 – \$1.55; large lagoons, clay, \$.14 – \$.26; agitator and pumps, \$6,900 – \$13,500 each; add \$4,950 for lagoon flotation systems.

*FLOOR AREA/PERIMETER MULTIPLIERS

USE FOR AREA/PERIMETERS NOT FOUND WITH INDIVIDUAL BUILDING OCCUPANCIES

Average Floor Area, Sq. Ft./Story	AVERAGE PERIMETER														Average Floor Area, Sq. Ft./Story
	75	100	125	150	200	250	300	400	500	600	700	800	900	1000	
500	1.17	1.29	1.44	----	----	----	----	----	----	----	----	----	----	----	500
750	1.04	1.12	1.21	1.29	----	----	----	----	----	----	----	----	----	----	750
1,000	.98	1.04	1.10	1.17	1.29	1.42	----	----	----	----	----	----	----	----	1,000
2,000	----	.92	.95	.98	1.04	1.10	1.17	1.29	----	----	----	----	----	----	2,000
3,000	----	----	.90	.92	.96	1.00	1.04	1.12	1.21	----	----	----	----	----	3,000
4,000	----	----	----	.88	.92	.95	.98	1.04	1.10	1.17	1.23	----	----	----	4,000
5,000	----	----	----	.86	.89	.92	.94	.99	1.04	1.09	1.14	1.19	1.20	----	5,000
8,000	----	----	----	----	----	.87	.88	.92	.95	.98	1.01	1.04	1.07	1.10	8,000
10,000	----	----	----	----	----	----	.86	.89	.92	.94	.97	.99	1.02	1.04	10,000
14,000	----	----	----	----	----	----	.84	.86	.88	.90	.92	.93	.95	.97	14,000
20,000	----	----	----	----	----	----	----	.83	.85	.87	.88	.89	.90	.92	20,000
25,000	----	----	----	----	----	----	----	.82	.83	.84	.85	.86	.87	.88	25,000

*Do not use for sheds or shelters without walls.