

Manitoba Sizing Chart for 60 CM Wide Trench Fields to be used with Soil Texture Classification Triangle

		Number of Bedrooms (lpd shown below bedrooms) - Length of Trench (metres)														
		Stone Trench (60cmW x 30 cmH)					Stone Trench (60cmW x 45cmH)					Stone Trench (60cmW x 60cmH)				
Soil Type	App. Rate (lpd/sm)	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR
Sand - modified surface/subsurface systems	29.35	37	56	75	93	19	32	48	64	80	16	28	42	56	70	14
Loamy Sand	29.35	37	56	75	93	19	32	48	64	80	16	28	42	56	70	14
Sandy Loam	22.02	50	75	99	124	25	43	64	85	106	21	37	56	75	93	19
Loam	16.63	66	99	131	164	33	57	85	113	141	28	49	74	99	123	25
Silt Loam	13.70	80	120	160	200	40	69	103	137	171	34	60	90	120	150	30
Sandy Clay Loam	13.70	80	120	160	200	40	69	103	137	171	34	60	90	120	150	30
Silt	12.72	86	129	172	215	43	74	111	147	184	37	65	97	129	161	32
Clay Loam	10.76	101	152	203	254	51	87	131	174	218	44	76	114	152	191	38
Silty Clay Loam	8.80	124	186	248	310	62	107	160	213	266	53	93	140	186	233	47
Sandy Clay	8.80	124	186	248	310	62	107	160	213	266	53	93	140	186	233	47
Silty Clay	8.31	131	197	263	329	66	113	169	225	282	56	99	148	197	247	49
Clay	8.31	131	197	263	329	66	113	169	225	282	56	99	148	197	247	49
Sandy Clay	8.31	131	197	263	329	66	113	169	225	282	56	99	148	197	247	49
Heavy Clay	Modified aboveground systems. See soil texture classification matrix.															

Length of System (metres)

Table 6: 60cm Stone Trench - Metric

Manitoba Sizing Chart for 90 CM Wide Trench Fields to be used with Soil Texture Classification Triangle

		Number of Bedrooms (lpd shown below bedrooms) - Length of Trench (metres)														
		Stone Trench (90cmW x 30cmH)					Stone Trench (90cmW x 45cmH)					Stone Trench (90cmW x 60cmH)				
Soil Type	App. Rate (lpd/sm)	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR
Sand - modified surface/subsurface systems	29.35	28	42	56	70	14	25	37	50	62	12	23	34	45	56	11
Loamy Sand	29.35	28	42	56	70	14	25	37	50	62	12	23	34	45	56	11
Sandy Loam	22.02	37	56	75	93	19	33	50	66	83	17	30	45	60	75	15
Loam	16.63	49	74	99	123	25	44	66	88	110	22	39	59	79	99	20
Silt Loam	13.70	60	90	120	150	30	53	80	106	133	27	48	72	96	120	24
Sandy Clay Loam	13.70	60	90	120	150	30	53	80	106	133	27	48	72	96	120	24
Silt	12.72	65	97	129	161	32	57	86	115	143	29	51	77	103	129	26
Clay Loam	10.76	76	114	152	191	38	68	102	135	169	34	61	91	122	152	30
Silty Clay Loam	8.80	93	140	186	233	47	83	124	166	207	41	75	112	149	186	37
Sandy Clay	8.80	93	140	186	233	47	83	124	166	207	41	75	112	149	186	37
Silty Clay	8.31	99	148	197	247	49	87	131	175	219	44	79	118	158	197	39
Clay	8.31	99	148	197	247	49	87	131	175	219	44	79	118	158	197	39
Sandy Clay	8.31	99	148	197	247	49	87	131	175	219	44	79	118	158	197	39
Heavy Clay	Modified aboveground systems. See soil texture classification matrix.															

Length of System (metres)

Table 7: 90cm Trench - Metric

Manitoba Infiltrator[®] Chamber Sizing Chart for Trench Fields to be used with Soil Texture Classification Triangle

		Number of Bedrooms (lpd shown below bedrooms) - Length of Trench (metres)														
		Quick 4 Equalizer [®]					Quick 4 Standard					Quick 4 High Capacity				
Soil Type	App. Rate (lpd/sm)	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR
Sand - modified surface/subsurface systems	29.35	32	48	64	80	16	26	39	52	65	13	19	35	47	58	16
Loamy Sand	29.35	32	48	64	80	16	26	39	52	65	13	19	35	47	58	16
Sandy Loam	22.02	43	64	85	106	21	35	52	69	87	17	26	47	62	78	21
Loam	16.63	57	85	113	141	28	46	69	92	115	23	35	62	82	103	27
Silt Loam	13.70	69	103	137	171	34	56	84	111	139	28	42	75	100	125	33
Sandy Clay Loam	13.70	69	103	137	171	34	56	84	111	139	28	42	75	100	125	33
Silt	12.72	74	111	147	184	37	60	90	120	150	30	45	81	107	134	36
Clay Loam	10.76	87	131	174	218	44	71	106	142	177	35	53	95	127	159	42
Silty Clay Loam	8.80	107	160	213	266	53	87	130	173	217	43	64	116	155	194	52
Sandy Clay Loam	8.80	107	160	213	266	53	87	130	173	217	43	64	116	155	194	52
Silty Clay	8.31	113	169	225	282	56	92	138	183	229	46	68	123	164	205	55
Clay	8.31	113	169	225	282	56	92	138	183	229	46	68	123	164	205	55
Sandy Clay	8.31	113	169	225	282	56	92	138	183	229	46	68	123	164	205	55
Heavy Clay	Modified aboveground systems. See soil texture classification matrix.															

Length of System (metres)

 Table 8: Infiltrator[®] Chamber - Metric

ARC 24 Chamber System Sizing for Trench Fields to be used with Soil Texture Classification Triangle (metric)

Soil Type	Application Rate (lpd/sm)	ARC 24 (57cm W x 30cm H x 1.52m L)					
		2 BR 1000	3 BR 1500	4 BR 2000	5 BR 2500	6 BR 3000	Each Additional Bedroom
		Length of trench (metres) & units required					
Sand - modified surface/subsurface systems	29.35	37 22 units	56 32 units	75 43 units	93 53 units	112 63 units	19 7 units
Loamy Sand	29.35	37 22 units	56 32 units	75 43 units	93 53 units	112 63 units	19 7 units
Sandy Loam	22.02	50 29 units	75 46 units	99 56 units	124 70 units	143 85 units	25 10 units
Loam	16.63	66 37 units	99 56 units	131 75 units	164 93 units	183 111 units	33 13 units
Silt Loam	13.70	80 43 units	120 67 units	160 90 units	200 113 units	219 136 units	40 16 units
Sandy Clay Loam	13.70	80 48 units	120 67 units	160 90 units	200 113 units	219 136 units	40 16 units
Silt	12.72	86 49 units	129 72 units	172 97 units	215 122 units	234 146 units	43 18 units
Clay Loam	10.76	101 57 units	152 86 units	203 115 units	254 143 units	273 172 units	51 19 units
Silty Clay Loam	8.80	124 70 units	186 106 units	248 140 units	310 176 units	329 210 units	62 25 units
Sandy Clay	8.80	124 70 units	186 106 units	248 140 units	310 176 units	329 210 units	62 25 units
Silty Clay	8.31	131 75 units	197 149 units	263 149 units	329 186 units	348 233 units	66 26 units
Clay	8.31	131 75 units	197 149 units	263 149 units	329 186 units	348 233 units	66 26 units
Sandy Clay	8.31	131 75 units	197 149 units	263 149 units	329 186 units	348 223 units	66 26 units
Heavy Clay	Modified aboveground systems. See soil texture classification matrix.						

Table 9: ARC 24 Chamber – Metric

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Manitoba Sizing Chart for Total Area Fields to be used with Soil Texture Classification Triangle

		Number of Bdrms (lpd below bdrms)									
		Stone Total Area System					Chamber Total Area System				
		Area of Field (m2) + cu metres of stone					Area of Field (m2)				
Soil Type	App. Rate (lpd/sm)	2 1000	3 1500	4 2000	5 2500	Each Add. BR	2 1000	3 1500	4 2000	5 2500	Each Add. BR
Sand - modified surface/ subsurface systems	29.35	68 55	102 85	136 110	170	34	51	77	102	128	26
Loamy Sand	29.35	68 55	102 85	136 110	170	34	51	77	102	128	26
Sandy Loam	22.02	91 75	136 110	182 145	227	45	68	102	136	170	34
Loam	16.63	120 100	180 145	240 195	301	60	90	135	180	225	45
Silt Loam	13.70	146 120	219 180	292 235	365	73	109	164	219	274	55
Sandy Clay Loam	13.70	146 120	219 180	292 235	365	73	109	164	219	274	55
Silt	12.72	157 130	236 190	314 255	393	79	118	177	236	295	59

Area of System (m²)

Table 10: Total Area - Metric