

# Appendix C:

## Quantity Calculations

### GRAVEL SPREAD CHART

#### TRUCK CAPACITY IN CUBIC YARDS

Chart 2: Gravel Coverage Chart Showing Depth of Gravel in Inches\*\*  
(width of road in feet)

Yd <sup>3</sup> /mi	10	12	14	16	18	20	22	24	26
400	132	158.4	184.8	211.2	237.6	264	290.4	316.8	343.2
500	105.6	126.7	147.84	168.96	190.08	211.2	232.32	253.44	274.56
600	88	105.2	123.2	140.8	158.4	176	193.6	211.2	228.8
700	75.429	90.514	105.6	120.69	135.77	150.86	165.94	181.03	196.11
800	66	79.2	92.4	105.6	118.8	132	145.2	158.4	171.6
900	58.667	70.4	82.133	93.867	105.6	117.33	129.07	140.8	152.53
1000	52.8	63.36	73.92	84.48	95.04	105.6	116.16	126.72	137.28
1100	48	57.6	67.2	76.8	86.4	96	105.6	115.2	124.8
1200	44	52.8	61.6	70.4	79.2	88	96.8	105.6	114.4
1300	40.615	48.738	56.862	64.985	73.108	81.231	89.354	97.477	105.6
1400	37.714	45.257	52.8	60.343	67.886	75.429	82.971	90.514	98.057
1500	35.2	42.24	49.28	56.32	63.36	70.4	77.44	84.48	91.52
2000	26.4	31.68	36.96	42.24	47.52	52.8	58.08	63.36	68.64
2500	21.12	25.344	29.568	33.792	38.016	42.24	46.464	50.688	54.912
3000	17.6	21.12	24.64	28.16	31.68	35.2	38.72	42.24	45.76
3500	15.086	18.103	21.12	24.137	27.154	30.171	33.189	36.206	39.223
4000	13.2	15.84	18.48	21.12	23.76	26.4	29.04	31.68	34.32
4500	11.733	14.08	16.427	18.773	21.12	23.467	25.813	28.16	30.507
5000	10.56	12.672	14.784	16.896	19.008	21.12	23.232	25.344	27.456
5500	9.6	11.52	13.44	15.36	17.28	19.2	21.12	23.04	24.96
6000	8.8	10.56	12.32	14.08	15.84	17.6	19.36	21.12	22.88
6500	8.1231	9.7477	11.372	12.997	14.622	16.246	17.871	19.495	21.12
7000	7.5429	9.0514	10.56	12.069	13.577	15.086	16.594	18.103	19.611
7500	7.04	8.448	9.856	11.264	12.672	14.08	15.488	16.896	18.304
8000	6.6	7.92	9.24	10.56	11.88	13.2	14.52	15.84	17.16

Note: To calculate the exact spread divide 5280 by the Cubic Yards per mile and multiply by the truck capacity in cubic yards.

## Truck Capacity in Cubic Yards

Chart 3: Gravel Spreading Chart in feet per truckload

Yd <sup>3</sup> /mi	5	6	6.5	7	10	12
400	66	79.2	85.8	92.4	132	158.4
500	52.8	63.4	68.6	73.9	105.6	126.8
600	44	52.8	57.2	61.6	88	105.6
700	37.7	45.3	49	52.8	75.4	90.6
800	33	39.6	42.9	46.2	66	79.2
900	29.3	35.2	38.1	41	58.6	70.4
1000	26.4	31.7	34.3	36.9	52.8	63.4
1100	24	28.8	31.2	33.6	48	57.6
1200	22	26.4	28.6	30.8	44	52.8
1300	20.3	24.4	26.4	28.4	40.6	48.8
1400	18.9	22.6	24.6	26.4	37.8	45.2
1500	17.6	21.1	22.9	24.6	35.2	42.2
2000	13.2	15.8	17.2	18.5	26.4	31.6
2500	10.6	12.7	13.8	14.8	21.2	25.4
3000	8.8	10.6	11.4	12.3	17.6	21.2
3500	7.5	9.1	9.8	10.6	15	18.2
4000	6.6	7.9	8.6	9.2	13.2	15.8
4500	5.9	7	7.7	8.2	11.8	14
5000	5.3	6.3	6.9	7.4	10.6	12.6

(This chart originally provided to the South Dakota LTAP by Scott Construction of Lake Dalton, WI.)