

VOLUME KENDARAAN RUAS JALAN SEMARANG (KALIGAWE)

No	Waktu	Kendaraan Pribadi		Kendaraan Penumpang			Kendaraan Barang					Total Kendaraan	
		Mobil	Sepeda Motor	Angkot	Bus Kecil	Bus Sedang	Bus Besar	Pick Up	Truck Kecil	Truck Sedang	Truck Besar		Trailer / Gandeng
1	06.00 - 07.00	852	1717	68	41	27	21	51	253	61	165	82	3338
2	07.00 - 08.00	971	1545	52	50	27	18	46	185	46	98	76	3114
3	08.00 - 09.00	757	1289	34	42	19	20	34	162	33	77	75	2542
4	09.00 - 10.00	679	1155	28	33	8	15	26	131	27	43	58	2203
5	10.00 - 11.00	654	1079	35	23	7	15	14	139	24	35	41	2066
6	11.00 - 12.00	734	1300	42	47	10	14	14	174	29	31	38	2433
7	12.00 - 13.00	887	1391	40	33	11	18	26	144	30	58	43	2681
8	13.00 - 14.00	792	1261	21	24	11	12	22	122	45	72	44	2426
9	14.00 - 15.00	659	1200	31	14	10	14	10	137	37	34	35	2181
10	15.00 - 16.00	791	1379	53	30	16	10	17	176	32	30	45	2579
11	16.00 - 17.00	917	1576	54	45	19	15	36	214	44	64	48	3032
12	17.00 - 18.00	919	1424	25	29	19	12	31	130	38	78	57	2762
13	18.00 - 19.00	849	1205	16	18	10	11	24	110	35	39	47	2364
14	19.00 - 20.00	623	1041	5	5	6	9	15	85	24	30	40	1883

Tabel 6.2 Volume Kendaraan Ruas Jalan Semarang (Kaligawe)

VOLUME KENDARAAN RUAS JALAN DEMAK (SAYUNG)

No	Waktu	Kendaraan Pribadi		Kendaraan Penumpang				Kendaraan Barang					Total Kendaraan
		Mobil	Sepeda Motor	Angkot	Bus Kecil	Bus Sedang	Bus Besar	Pick Up	Truck Kecil	Truck Sedang	Truck Besar	Trailer / Gandeng	
1	06.00 - 07.00	991	1471	32	7	11	22	283	233	74	200	30	3354
2	07.00 - 08.00	829	1916	37	43	20	21	200	243	74	216	74	3673
3	08.00 - 09.00	983	1592	26	6	5	5	120	178	62	79	8	3064
4	09.00 - 10.00	639	1462	18	5	4	6	56	99	46	68	7	2410
5	10.00 - 11.00	402	1273	5	5	3	5	35	37	34	69	6	1874
6	11.00 - 12.00	663	1146	14	5	2	10	102	47	42	38	7	2076
7	12.00 - 13.00	782	1176	13	2	6	15	176	119	36	82	16	2423
8	13.00 - 14.00	873	1277	16	2	5	8	116	112	40	74	11	2534
9	14.00 - 15.00	649	1185	12	3	5	5	101	35	38	39	9	2081
10	15.00 - 16.00	660	1280	26	4	6	6	179	75	54	26	13	2329
11	16.00 - 17.00	746	1255	28	5	9	14	233	126	49	125	20	2610
12	17.00 - 18.00	742	1027	19	4	6	5	145	114	34	67	16	2179
13	18.00 - 19.00	538	1220	7	5	4	8	124	60	31	40	13	2050
14	19.00 - 20.00	381	1049	8	1	4	4	60	18	14	30	9	1578

Tabel 6.2 Volume Kendaraan Ruas Jalan Demak (Sayung)

Gambar 6.1 *Survey Traffic counting* ruas jalan Semarang (Kaligawe)



Gambar 6.1 *Survey Traffic counting* ruas jalan Demak (Sayung)



Tabel 6.3 Compound Interest Factors (5%)

5%										Compound Interest Factors										5%									
Single Payment										Uniform Payment Series										Arithmetic Gradient									
Compound Amount Factor Find F Given P		Present Worth Factor Find P Given F		Sinking Fund Factor Find A Given F		Capital Recovery Factor Find A Given P		Compound Amount Factor Find F Given A		Present Worth Factor Find P Given A		Gradient Uniform Series Find A Given G		Gradient Present Worth Find P Given G															
<i>n</i>	F/P	P/F	A/F	A/P	F/A	P/A	A/G	P/G	<i>n</i>																				
1	1.050	.9524	1.0000	1.0500	1.000	0.952	0	0	1																				
2	1.102	.9070	.4878	.5378	2.050	1.859	0.488	0.907	2																				
3	1.158	.8638	.3172	.3672	3.152	2.723	0.967	2.635	3																				
4	1.216	.8227	.2320	.2820	4.310	3.546	1.439	5.103	4																				
5	1.276	.7835	.1810	.2310	5.526	4.329	1.902	8.237	5																				
6	1.340	.7462	.1470	.1970	6.802	5.076	2.358	11.968	6																				
7	1.407	.7107	.1228	.1728	8.142	5.786	2.805	16.232	7																				
8	1.477	.6768	.1047	.1547	9.549	6.463	3.244	20.970	8																				
9	1.551	.6446	.0907	.1407	11.027	7.108	3.676	26.127	9																				
10	1.629	.6139	.0795	.1295	12.578	7.722	4.099	31.652	10																				
11	1.710	.5847	.0704	.1204	14.207	8.306	4.514	37.499	11																				
12	1.796	.5568	.0628	.1128	15.917	8.863	4.922	43.624	12																				
13	1.886	.5303	.0565	.1065	17.713	9.394	5.321	49.988	13																				
14	1.980	.5051	.0510	.1010	19.599	9.899	5.713	56.553	14																				
15	2.079	.4810	.0463	.0963	21.579	10.380	6.097	63.288	15																				
16	2.183	.4581	.0423	.0923	23.657	10.838	6.474	70.159	16																				
17	2.292	.4363	.0387	.0887	25.840	11.274	6.842	77.140	17																				
18	2.407	.4155	.0355	.0855	28.132	11.690	7.203	84.204	18																				
19	2.527	.3957	.0327	.0827	30.539	12.085	7.557	91.327	19																				
20	2.653	.3769	.0302	.0802	33.066	12.462	7.903	98.488	20																				
21	2.786	.3589	.0280	.0780	35.719	12.821	8.242	105.667	21																				
22	2.925	.3419	.0260	.0760	38.505	13.163	8.573	112.846	22																				
23	3.072	.3256	.0241	.0741	41.430	13.489	8.897	120.008	23																				
24	3.225	.3101	.0225	.0725	44.502	13.799	9.214	127.140	24																				
25	3.386	.2953	.0210	.0710	47.727	14.094	9.524	134.227	25																				
26	3.556	.2812	.0196	.0696	51.113	14.375	9.827	141.258	26																				
27	3.733	.2678	.0183	.0683	54.669	14.643	10.122	148.222	27																				
28	3.920	.2551	.0171	.0671	58.402	14.898	10.411	155.110	28																				
29	4.116	.2429	.0160	.0660	62.323	15.141	10.694	161.912	29																				
30	4.322	.2314	.0151	.0651	66.439	15.372	10.969	168.622	30																				
31	4.538	.2204	.0141	.0641	70.761	15.593	11.238	175.233	31																				
32	4.765	.2099	.0133	.0633	75.299	15.803	11.501	181.739	32																				
33	5.003	.1999	.0125	.0625	80.063	16.003	11.757	188.135	33																				
34	5.253	.1904	.0118	.0618	85.067	16.193	12.006	194.416	34																				
35	5.516	.1813	.0111	.0611	90.320	16.374	12.250	200.580	35																				
40	7.040	.1420	.00828	.0583	120.799	17.159	13.377	229.545	40																				
45	8.985	.1113	.00626	.0563	159.699	17.774	14.364	255.314	45																				
50	11.467	.0872	.00478	.0548	209.347	18.256	15.223	277.914	50																				
55	14.636	.0683	.00367	.0537	272.711	18.633	15.966	297.510	55																				
60	18.679	.0535	.00283	.0528	353.582	18.929	16.606	314.343	60																				
65	23.840	.0419	.00219	.0522	456.795	19.161	17.154	328.691	65																				
70	30.426	.0329	.00170	.0517	588.525	19.343	17.621	340.841	70																				
75	38.832	.0258	.00132	.0513	756.649	19.485	18.018	351.072	75																				
80	49.561	.0202	.00103	.0510	971.222	19.596	18.353	359.646	80																				
85	63.254	.0158	.00080	.0508	1245.1	19.684	18.635	366.800	85																				
90	80.730	.0124	.00063	.0506	1594.6	19.752	18.871	372.749	90																				
95	103.034	.00971	.00049	.0505	2040.7	19.806	19.069	377.677	95																				
100	131.500	.00760	.00038	.0504	2610.0	19.848	19.234	381.749	100																				

Tabel 6.4 *Compound Interest Factors (14%)*

14%									
End-of-Period Compound Interest Factors									
14%									
N	Single Payment		Uniform Payment Series				Arithmetic Gradient		N
	Compound Amount Factor F/P	Present Worth Factor P/F	Capital Recovery Factor A/P	Present Worth Factor P/A	Sinking Fund Factor A/F	Compound Amount Factor F/A	Present Worth Factor P/G	Uniform Payment Factor A/G	
1	1.140	.8772	1.1400	.877	1.0000	1.000	0	0	1
2	1.300	.7695	.6073	1.647	.4673	2.140	.769	.467	2
3	1.482	.6750	.4307	2.322	.2907	3.440	2.119	.913	3
4	1.689	.5921	.3432	2.914	.2032	4.921	3.896	1.337	4
5	1.925	.5194	.2913	3.433	.1513	6.610	5.973	1.740	5
6	2.195	.4556	.2572	3.889	.1172	8.536	8.251	2.122	6
7	2.502	.3996	.2332	4.288	.0932	10.730	10.649	2.483	7
8	2.853	.3506	.2156	4.639	.0756	13.233	13.103	2.825	8
9	3.252	.3075	.2022	4.946	.0622	16.085	15.563	3.146	9
10	3.707	.2697	.1917	5.216	.0517	19.337	17.991	3.449	10
11	4.226	.2366	.1834	5.453	.0434	23.045	20.357	3.733	11
12	4.818	.2076	.1767	5.660	.0367	27.271	22.640	4.000	12
13	5.492	.1821	.1712	5.842	.0312	32.089	24.825	4.249	13
14	6.261	.1597	.1666	6.002	.0266	37.581	26.901	4.482	14
15	7.138	.1401	.1628	6.142	.0228	43.842	28.862	4.699	15
16	8.137	.1229	.1596	6.265	.0196	50.980	30.706	4.901	16
17	9.276	.1078	.1569	6.373	.0169	59.118	32.430	5.089	17
18	10.575	.0946	.1546	6.467	.0146	68.394	34.038	5.263	18
19	12.056	.0829	.1527	6.550	.0127	78.969	35.531	5.424	19
20	13.743	.0728	.1510	6.623	.0110	91.025	36.914	5.573	20
21	15.668	.0638	.1495	6.687	.00954	104.8	38.190	5.711	21
22	17.861	.0560	.1483	6.743	.00830	120.4	39.366	5.838	22
23	20.362	.0491	.1472	6.792	.00723	138.3	40.446	5.955	23
24	23.212	.0431	.1463	6.835	.00630	158.7	41.437	6.062	24
25	26.462	.0378	.1455	6.873	.00550	181.9	42.344	6.161	25
26	30.167	.0331	.1448	6.906	.00480	208.3	43.173	6.251	26
27	34.390	.0291	.1442	6.935	.00419	238.5	43.929	6.334	27
28	39.204	.0255	.1437	6.961	.00366	272.9	44.618	6.410	28
29	44.693	.0224	.1432	6.983	.00320	312.1	45.244	6.479	29
30	50.950	.0196	.1428	7.003	.00280	356.8	45.813	6.542	30
31	58.083	.0172	.1425	7.020	.00245	407.7	46.330	6.600	31
32	66.215	.0151	.1421	7.035	.00215	465.8	46.798	6.652	32
33	75.485	.0132	.1419	7.048	.00188	532.0	47.222	6.700	33
34	86.053	.0116	.1416	7.060	.00165	607.5	47.605	6.743	34
35	98.100	.0102	.1414	7.070	.00144	693.6	47.952	6.782	35
40	188.9	.00529	.1407	7.105	.000745	1342	49.238	6.930	40
45	363.7	.00275	.1404	7.123	.000386	2591	49.996	7.019	45
50	700.2	.00143	.1402	7.133	.000200	4995	50.438	7.071	50
55	1348	.00074	.1401	7.138	.000104	9623	50.691	7.102	55
60	2596	.00039	.1401	7.140	.000054	18535	50.836	7.120	60
∞	∞	0	.14	7.143	0	∞	51.020	7.143	∞

Tabel 6.5 *Compound Interest Factors (15%)*

15% END-OF-PERIOD COMPOUND INTEREST TABLES 15%									
End-of-Period Compound Interest Factors									
N	Single Payment		Uniform Payment Series				Arithmetic Gradient		N
	Compound Amount F/P	Present Worth P/F	Capital Recovery Factor A/P	Present Worth Factor P/A	Sinking Fund Factor A/F	Compound Amount Factor F/A	Present Worth Factor P/G	Uniform Payment Factor A/G	
1	1.150	.8696	1.1500	.870	1.0000	1.000	0	0	1
2	1.323	.7561	.6151	1.626	.4651	2.150	.756	.465	2
3	1.521	.6575	.4380	2.283	.2880	3.473	2.071	.907	3
4	1.749	.5718	.3503	2.855	.2003	4.993	3.786	1.326	4
5	2.011	.4972	.2983	3.352	.1483	6.742	5.775	1.723	5
6	2.313	.4323	.2642	3.784	.1142	8.754	7.937	2.097	6
7	2.660	.3759	.2404	4.160	.0904	11.067	10.192	2.450	7
8	3.059	.3269	.2229	4.487	.0729	13.727	12.481	2.781	8
9	3.518	.2843	.2096	4.772	.0596	16.786	14.755	3.092	9
10	4.046	.2472	.1993	5.019	.0493	20.304	16.979	3.383	10
11	4.652	.2149	.1911	5.234	.0411	24.349	19.129	3.655	11
12	5.350	.1869	.1845	5.421	.0345	29.002	21.185	3.908	12
13	6.153	.1625	.1791	5.583	.0291	34.352	23.135	4.144	13
14	7.076	.1413	.1747	5.724	.0247	40.505	24.972	4.362	14
15	8.137	.1229	.1710	5.847	.0210	47.580	26.693	4.565	15
16	9.358	.1069	.1679	5.954	.0179	55.717	28.296	4.752	16
17	10.761	.0929	.1654	6.047	.0154	65.075	29.783	4.925	17
18	12.375	.0808	.1632	6.128	.0132	75.836	31.156	5.084	18
19	14.232	.0703	.1613	6.198	.0113	88.212	32.421	5.231	19
20	16.367	.0611	.1598	6.259	.00976	102.4	33.582	5.365	20
21	18.822	.0531	.1584	6.312	.00842	118.8	34.645	5.488	21
22	21.645	.0462	.1573	6.359	.00727	137.6	35.615	5.601	22
23	24.891	.0402	.1563	6.399	.00628	159.3	36.499	5.704	23
24	28.625	.0349	.1554	6.434	.00543	184.2	37.302	5.798	24
25	32.919	.0304	.1547	6.464	.00470	212.8	38.031	5.883	25
26	37.857	.0264	.1541	6.491	.00407	245.7	38.692	5.961	26
27	43.535	.0230	.1535	6.514	.00353	283.6	39.289	6.032	27
28	50.066	.0200	.1531	6.534	.00306	327.1	39.828	6.096	28
29	57.575	.0174	.1527	6.551	.00265	377.2	40.315	6.154	29
30	66.212	.0151	.1523	6.566	.00230	434.7	40.753	6.207	30
31	76.144	.0131	.1520	6.579	.00200	501.0	41.147	6.254	31
32	87.565	.0114	.1517	6.591	.00173	577.1	41.501	6.297	32
33	100.7	.00993	.1515	6.600	.00150	664.7	41.818	6.336	33
34	115.8	.00864	.1513	6.609	.00131	765.4	42.103	6.371	34
35	133.2	.00751	.1511	6.617	.00113	881.2	42.359	6.402	35
40	267.9	.00373	.1506	6.642	.000562	1779	43.283	6.517	40
45	538.8	.00186	.1503	6.654	.000279	3585	43.805	6.583	45
50	1084	.00092	.1501	6.661	.000139	7218	44.096	6.620	50
55	2180	.00046	.1501	6.664	.000069	14524	44.256	6.641	55
60	4384	.00023	.1500	6.665	.000034	29220	44.343	6.653	60
∞	∞	0	.15	6.667	0	∞	44.444	6.667	∞