

ROLLING RESISTANCE OF TYRES - TEST DATA				© John Lafford Jan 2001						
TYRE NAME	Size	Test Pressure psi	Rolling Res. coef. Crrtest	Rolling Resistance Power Absorbed						Unfair bike Time lost to best tyre at 25mph over 10 miles Seconds
				Unfaired Weight = 185 lbs (84kg)			Faired Weight = 200 lbs (91kg)			
				Prr (20mph) (32kph) Watts	Prr (25mph) (40kph) Watts	Prr (30mph) (48kph) Watts	Prr (30mph) (48kph) Watts	Prr (40mph) (64kph) Watts	Prr (50mph) (80kph) Watts	
IRC Road Lite (new)	20" x 1 1/8"	100	0.0090	66	82	99	107	143	178	92
IRC Road Lite (new)	20" x 1 1/8"	115	0.0089	65	82	98	106	141	176	90
Conti Top Touring (new)	37-406	70	0.0092	68	84	101	110	146	183	96
Conti Top Touring (new)	37-406	90	0.0079	58	73	87	94	126	157	71
IRC Road Lite (old)	20" x 1 1/8"	100	0.0068	50	63	75	81	108	136	49
IRC Road Lite (old)	20" x 1 1/8"	115	0.0064	47	59	71	77	102	128	41
Michelin	28-440	70	0.0078	57	71	86	93	123	154	68
Michelin	28-440	90	0.0071	52	65	78	84	112	141	54
Tioga Comp Ramp (new)	20 x 1 7/8	85	0.0080	59	73	88	95	127	159	72
Tioga Comp Ramp (new)	20 x 1 7/8	100	0.0079	58	73	87	95	126	158	71
Hutchinson HP 25	25-451	115	0.0080	59	74	88	95	127	159	73
Hutchinson HP 25	25-451	90	0.0089	65	81	98	106	141	176	89
Hutchinson HP 25	25-451	100	0.0086	63	79	95	103	137	171	84
Conti Top Touring (new)	37-406	70	0.0090	66	83	99	108	143	179	93
Conti Top Touring (new)	37-406	90	0.0081	60	74	89	97	129	161	74
Conti Top Touring (new)	37-406	100	0.0080	59	74	89	96	128	160	73
Conti Top Touring (new)	37-406	115	0.0084	62	77	93	100	133	167	80
Michelin (450 x 28A)	28-390	100	0.0065	48	60	72	78	104	130	43
Michelin (450 x 28A)	28-390	115	0.0064	47	59	71	77	102	128	42
Conti Grand Prix (new)	28-406	100	0.0072	53	67	80	86	115	144	57
Conti Grand Prix (new)	28-406	120	0.0067	49	61	74	80	106	133	47
Conti Grand Prix (new)	28-406	140	0.0066	49	61	73	79	105	132	45
Vee Rubber (new)	20 x 2.125	40	0.0114	84	105	126	136	181	226	139
Vee Rubber (new)	20 x 2.125	60	0.0105	77	96	116	125	167	209	122
Vee Rubber (new)	20 x 2.125	80	0.0097	72	89	107	116	155	193	107
Primo 16 x 1 3/8 (new)	37-349	100	0.0078	57	72	86	93	124	155	69
Primo 16 x 1 3/8 (new)	37-349	110	0.0071	52	65	78	85	113	141	55
Primo 16 x 1 3/8 (new)	37-349	120	0.0070	52	65	78	84	112	140	54
Tioga Comp Pool (new)	20 x 1.75	90	0.0074	54	68	81	88	117	146	60
Tioga Comp Pool (new)	20 x 1.75	100	0.0071	52	65	78	84	113	141	54
Tioga Comp Pool (new)	20 x 1.75	110	0.0069	51	63	76	82	110	137	51
Tioga Comp Pool (new)	20 x 1.75	120	0.0065	48	60	72	78	103	129	43
Kenda w. tread ground off	16 x 1.75	80	0.0068	50	63	76	82	109	136	50
Kenda w. tread ground off	16 x 1.75	90	0.0064	47	59	70	76	101	127	41
Kenda w. tread ground off	16 x 1.75	100	0.0066	48	60	72	78	104	130	44
Michelin Hillite S'compHD	650 x 20c	100	0.0062	45	57	68	74	98	123	36
Michelin Hillite S'compHD	650 x 20c	110	0.0058	43	53	64	69	92	115	29
Michelin Hillite S'compHD	650 x 20c	120	0.0055	40	50	60	65	87	109	22
Hutchinson HP 25	600A x 24"	100	0.0070	52	65	77	84	112	140	53
Hutchinson HP 25	600A x 24"	120	0.0068	50	63	76	82	109	136	50
Hutchinson HP 25	600A x 24"	140	0.0068	50	63	75	81	109	136	50
Primo V Monster (new)	20 x 1.75	65	0.0074	55	68	82	89	118	148	61
Primo V Monster (new)	20 x 1.75	80	0.0078	57	72	86	93	124	155	68
Michelin	600 x 28A	80	0.0075	55	69	83	89	119	149	62
Michelin	600 x 28A	100	0.0072	53	66	79	86	115	143	57
Primo w. ground off tread	37-349	85	0.0066	49	61	73	79	106	132	46
Primo w. ground off tread	37-349	100	0.0063	47	58	70	76	101	126	40
Primo w. ground off tread	37-349	110	0.0064	47	59	70	76	102	127	41
Primo w. ground off tread	37-349	120	0.0060	44	55	66	71	95	119	33
Primo w. ground off tread	37-349	140	0.0060	44	55	66	71	95	119	33
Moulton Wolber line tread (new)	17 x 1 1/8	70	0.0092	68	85	102	110	147	184	97
Moulton Wolber line tread (new)	17 x 1 1/8	100	0.0084	62	78	93	101	134	168	81
Moulton Wolber line tread (new)	17 x 1 1/8	120	0.0079	58	73	87	94	126	157	71
Primo w. ground off tread, & latex tube	37-349	100	0.0066	49	61	73	79	106	132	46
Primo w. ground off tread, & latex tube	37-349	120	0.0061	45	56	67	73	97	121	35
Primo w. ground off tread, & latex tube	37-349	140	0.0058	42	53	64	69	92	115	29
Vredestein Monte Carlo (new)	37-406	90	0.0069	51	63	76	82	109	137	50
Vredestein Monte Carlo (new)	37-406	100	0.0067	49	62	74	80	107	134	47
Vredestein Monte Carlo (new)	37-406	120	0.0064	47	58	70	76	101	126	40
Hutchinson	600 x 28A	100	0.0059	43	54	65	70	94	117	31
Hutchinson	600 x 28A	120	0.0052	38	48	58	62	83	104	18
Conti Grand Prix w latex tube	28-406	100	0.0077	57	71	85	92	123	153	67
Conti Grand Prix w latex tube	28-406	125	0.0069	51	64	77	83	110	138	52
Conti Grand Prix w latex tube	28-406	140	0.0067	49	61	74	80	106	133	47
Schwalbe Spezial City Jet (used)	32-406	100	0.0065	48	60	72	78	104	130	44
Schwalbe Spezial City Jet (used)	32-406	120	0.0063	46	58	70	75	100	126	39
Nokian City Runner (new)	40-406	72	0.0083	61	76	91	99	131	164	78
Nokian City Runner (new)	40-406	100	0.0078	58	72	86	93	124	156	69
Nokian City Runner (new)	40-406	120	0.0071	52	65	78	85	113	141	55
Nokian Mount & City (new)	47-406	50	0.0083	61	76	91	99	132	165	78
Nokian Mount & City (new)	47-406	80	0.0072	53	66	79	86	114	143	57
Nokian Mount & City (new)	47-406	100	0.0068	50	63	75	81	109	136	49
Nokian Mount & City (new)	47-406	120	0.0063	47	58	70	76	101	126	40
Nokian Mount & Ground (used)	47-406	45	0.0104	76	95	114	124	165	206	119
Nokian Mount & Ground (used)	47-406	80	0.0100	73	92	110	119	159	198	112
Nokian Mount & Ground (used)	47-406	100	0.0089	66	82	99	107	142	178	91
Schwalbe City Jet (new)	32-406	100	0.0087	64	80	96	104	139	174	87
Schwalbe City Jet (new)	32-406	120	0.0082	60	76	91	98	131	163	77
Schwalbe Marathon (new)	32-406	100	0.0097	72	89	107	116	155	193	107
Schwalbe Marathon (new)	32-406	115	0.0101	75	93	112	121	161	201	114
Schwalbe Marathon (new)	32-406	130	0.0100	73	92	110	119	159	198	112
Vredestein Monte Carlo (used)	37-406	90	0.0077	57	71	85	92	123	154	67
Vredestein Monte Carlo (used)	37-406	100	0.0069	51	64	76	82	110	138	51
Vredestein Monte Carlo (used)	37-406	120	0.0068	50	63	75	81	109	136	50
Nokian Mount & City (new)	47-305	50	0.0135	100	124	149	161	215	269	182
Nokian Mount & City (new)	47-305	80	0.0103	76	95	114	123	164	205	118

Primo 20 x 1.5 (used)	37-451	85	0.0066	48	61	73	79	105	131	45
Primo 20 x 1.5 (used)	37-451	100	0.0065	48	60	71	77	103	129	43
Primo 20 x 1.5 (used)	37-451	120	0.0062	46	57	69	75	99	124	38
IRC Roadlite 20 x 1 1/8 (used)	28-451	100	0.0068	50	63	76	82	109	136	50
IRC Roadlite 20 x 1 1/8 (used)	28-451	120	0.0064	47	59	71	77	102	128	42
Primo Comet	37-406	100	0.0074	54	68	82	88	118	147	61
Primo Comet	37-406	120	0.0070	52	64	77	84	111	139	53
Michelin (used)	600 x 28A	70	0.0081	59	74	89	96	128	160	74
Michelin (used)	600 x 28A	90	0.0073	54	68	81	88	117	146	60
Continental Grand Prix (used)	28-406	120	0.0082	60	76	91	98	131	163	77
Haro (used)	20 x 1.5	65	0.0073	54	68	81	88	117	146	60
Haro (used)	20 x 1.5	85	0.0068	50	63	75	81	108	136	49
Haro (used)	20 x 1.5	100	0.0063	47	58	70	76	101	126	40
Haro (new)	20 x 1.5	65	0.0077	56	70	84	91	122	152	66
Haro (new)	20 x 1.5	85	0.0067	50	62	74	80	107	134	48
Nokia Mount and City (new)	47-406	50	0.0104	77	96	115	124	165	207	120
Nokia Mount and City (new)	47-406	70	0.0087	64	80	96	104	139	174	87
Nokia Mount and City (new)	47-406	90	0.0082	60	75	90	98	130	163	76
Nokia Mount and City (new)	47-406	100	0.0073	54	67	81	87	116	145	59
Vredestein S-Lick (new)	32-406	60	0.0155	114	142	171	185	246	308	220
Vredestein S-Lick (new)	32-406	90	0.0106	78	97	117	126	168	210	123
Vredestein S-Lick (new)	32-406	100	0.0098	72	90	108	117	155	194	107
Primo 16 x 1 3/8 (new)	37-349	85	0.0078	57	72	86	93	124	155	69
RECOMMENDED 700C TYRES FOR REAR WHEELS for comparison. Very good performance at reasonable price.										
Nokia Roadie (used)	700 x 25c	100	0.0046	34	42	51	55	73	91	5
Michelin Axial Supercomp	23-622	110	0.0046	34	42	51	55	73	91	5
Vredestein Fortezza Piste	700 x 23c	10 bar	0.0043	32	40	48	52	69	86	0