



$V_1$	$\alpha$	1	2	3	4	5	6	7	8	9
1	.100	39.86	49.50	53.59	55.83	57.24	58.20	58.91	59.44	59.86
	.050	161.4	199.5	215.7	224.6	230.2	234.0	236.8	238.9	240.5
	.025	647.8	799.5	864.2	899.6	921.8	937.1	948.2	956.7	963.3
	.010	4052	4999.5	5403	5625	5764	5859	5928	5982	6022
	.005	16211	20000	21615	22500	23056	23437	23715	23925	24091
2	.100	8.53	9.00	9.16	9.24	9.29	9.33	9.35	9.37	9.38
	.050	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38
	.025	38.51	39.00	39.17	39.25	39.30	39.33	39.36	39.37	39.39
	.010	99.00	99.17	99.25	99.30	99.30	99.33	99.36	99.37	99.39
	.005	198.5	199.0	199.2	199.2	199.3	199.3	199.4	199.4	199.4
3	.100	5.54	5.46	5.39	5.34	5.31	5.28	5.27	5.25	5.2
	.050	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81
	.025	17.44	16.04	15.44	15.10	14.88	14.73	14.62	14.54	14.47
	.010	34.12	30.82	29.46	28.71	28.24	27.91	27.67	27.49	27.35
	.005	55.55	49.80	47.47	46.19	45.39	44.84	44.43	44.13	43.88
4	.100	4.54	4.32	4.19	4.11	4.05	4.01	3.98	3.95	3.94
	.050	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00
	.025	12.22	10.65	9.98	9.60	9.36	9.20	9.07	8.98	8.90
	.010	21.20	11.00	16.69	15.98	15.52	15.21	14.98	14.80	14.66
	.005	31.33	26.28	24.26	23.15	22.46	21.97	21.62	21.35	21.14
5	.100	4.06	3.78	3.62	3.52	3.45	3.40	3.37	3.34	3.32
	.050	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77
	.025	10.01	8.43	7.76	7.39	7.15	6.98	6.85	6.76	6.68
	.010	16.26	13.27	12.06	11.39	10.97	10.67	10.46	10.29	10.16
	.005	22.78	18.31	16.53	15.56	14.94	14.51	14.20	13.96	13.77
6	.100	3.78	3.46	3.29	3.18	3.11	3.05	3.01	2.98	2.96
	.050	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10
	.025	8.81	7.26	6.60	6.23	5.99	5.82	5.70	5.60	5.52
	.010	13.75	10.92	9.78	9.15	8.75	8.47	8.26	8.10	7.98
	.005	11.63	14.54	12.92	12.03	11.46	11.07	10.79	10.57	10.39
7	.100	3.59	3.26	3.07	2.96	2.88	2.83	2.78	2.75	2.72
	.050	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68
	.025	8.07	6.54	5.89	5.52	5.29	5.12	4.99	4.90	4.82
	.010	12.25	9.55	8.45	7.85	7.46	7.19	6.99	6.84	6.72
	.005	16.2	12.40	10.88	10.05	9.52	9.16	8.89	8.68	8.51
8	.100	3.46	3.11	2.92	2.81	2.73	2.67	2.62	2.59	2.56
	.050	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39
	.025	7.57	6.06	5.42	5.05	4.82	4.65	4.53	4.43	4.36
	.010	11.26	8.65	7.59	7.01	6.63	6.37	6.18	6.03	5.91
	.005	14.69	11.04	9.60	1.81	8.30	7.95	7.69	7.50	7.34
9	.100	3.36	3.01	2.81	2.69	2.61	2.55	2.51	2.47	2.44
	.050	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18
	.025	7.21	5.71	5.08	4.72	4.48	4.32	4.20	4.10	4.03
	.010	10.56	8.02	6.99	6.42	6.06	5.80	5.61	5.47	5.35
	.005	13.61	10.11	1.72	7.96	7.47	7.13	6.88	6.69	6.54
10	.100	3.29	2.92	2.73	2.61	2.52	2.46	2.41	2.38	2.35
	.050	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02
	.025	6.94	5.46	4.83	4.47	4.24	4.07	3.95	3.85	3.78
	.010	10.04	7.56	6.55	5.99	5.64	5.39	5.20	5.06	4.94
	.005	12.13	9.43	8.08	7.34	6.87	6.54	6.30	6.12	5.97
11	.100	3.23	2.86	2.66	2.54	2.45	2.39	2.34	2.30	2.27
	.050	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90
	.025	6.72	5.26	4.63	4.28	4.04	3.88	3.76	3.66	3.59
	.010	9.65	7.21	6.22	5.67	5.32	5.07	4.89	4.74	4.63
	.005	12.23	1.91	7.60	6.88	6.42	6.10	5.86	5.68	5.54
12	.100	3.18	2.11	2.61	2.41	2.39	2.33	2.28	2.24	2.21
	.050	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.10
	.025	6.55	5.10	4.47	4.12	3.89	3.73	3.61	3.51	3.44
	.010	9.33	6.93	5.95	5.41	5.06	4.12	4.64	4.50	4.39
	.005	11.75	8.51	7.23	6.52	6.07	5.76	5.52	5.35	5.20

جدول ۵ سطح زیر منحنی دنباله راست توزیع F

											$v_1$			
10	12	15	20	24	30	40	60	120	$\infty$	$\alpha$	$v_2$			
60.19	60.71	60.22	61.74	62.00	62.26	62.53	62.79	63.06	63.33	.100	1			
241.9	243.9	245.9	248.0	249.1	250.1	251.2	252.2	253.3	254.3	.050				
968.6	976.7	984.9	993.1	997.2	1001	1006	1010	1014	1018	.025				
6056	6106	6157	6209	6235	6261	6287	6313	6339	6366	.010				
24224	24426	24630	24836	24940	25044	25148	25253	25359	25465	.005				
9.39	9.41	9.42	9.44	9.45	9.46	9.47	9.47	9.48	9.49	.100	2			
19.40	19.41	19.43	19.45	19.45	19.46	19.47	19.48	19.49	19.50	.050				
39.40	39.41	39.43	39.45	39.46	39.46	39.47	39.48	39.49	39.50	.025				
99.40	99.42	99.43	99.45	99.46	99.47	99.47	99.48	99.49	99.50	.010				
199.4	199.4	199.4	199.4	199.5	199.5	199.5	199.5	199.5	199.5	.005				
5.23	5.22	5.20	5.18	5.18	5.17	5.16	5.15	5.14	5.13	.100	3			
8.79	8.74	8.70	8.66	8.64	8.62	8.59	8.57	8.55	8.53	.050				
14.42	14.34	14.25	14.17	14.12	14.08	14.04	13.99	13.95	13.90	.025				
27.23	27.05	26.87	26.69	26.60	26.50	26.41	26.32	26.22	26.13	.010				
43.69	43.39	43.08	42.78	42.62	42.47	42.31	42.15	41.99	41.83	.005				
3.92	3.90	3.87	3.84	3.83	3.82	3.80	3.79	3.78	3.76	.100	4			
5.96	5.91	5.86	5.80	5.77	5.75	5.72	5.69	5.66	5.63	.050				
8.84	8.75	8.66	8.56	8.51	8.46	8.41	8.36	8.31	8.26	.025				
14.55	14.37	14.20	14.02	13.93	13.84	13.75	13.65	13.56	13.46	.010				
20.97	20.70	20.44	20.17	20.03	19.89	19.75	19.61	19.47	19.32	.005				
3.30	3.27	3.24	3.21	3.19	3.17	3.16	3.14	3.12	3.10	.100	5			
4.74	4.61	4.62	4.56	4.53	4.50	4.46	4.43	4.40	4.36	.050				
6.62	6.52	6.43	6.33	6.28	6.23	6.18	6.12	6.07	6.02	.025				
10.05	9.89	9.72	9.55	9.47	9.41	9.29	9.20	9.11	9.02	.010				
13.62	13.31	13.15	12.90	12.78	12.66	12.53	12.40	12.27	12.14	.005				
2.94	2.90	2.87	2.84	2.82	2.80	2.78	2.76	2.74	2.72	.100	6			
4.06	4.00	3.94	3.87	3.84	3.81	3.77	3.74	3.70	3.67	.050				
5.46	5.37	5.27	5.17	5.12	5.07	5.01	4.96	4.90	4.85	.025				
7.87	7.72	7.56	7.40	7.31	7.23	7.14	7.06	6.97	6.88	.010				
10.25	10.03	9.81	9.59	9.47	9.36	9.24	9.12	9.00	8.88	.005				
2.70	2.67	2.63	2.59	2.58	2.56	2.54	2.51	2.49	2.47	.100	7			
3.64	3.57	3.51	3.44	3.41	3.38	3.34	3.30	3.27	3.23	.050				
4.76	4.67	4.57	4.47	4.42	4.36	4.31	4.25	4.20	4.14	.025				
6.62	6.47	6.31	6.16	6.07	5.99	5.91	5.82	5.74	5.65	.010				
8.38	8.1	7.97	7.75	7.65	7.53	7.42	7.31	7.19	7.08	.005				
2.54	2.50	2.46	2.42	2.40	2.38	2.36	2.34	2.32	2.29	.100	8			
3.35	3.28	3.22	3.15	3.12	3.08	3.04	3.01	2.97	2.93	.050				
4.30	4.20	4.10	4.00	3.95	3.89	3.84	3.78	3.73	3.67	.025				
5.81	5.67	5.52	5.36	5.28	5.20	5.12	5.03	4.95	4.86	.010				
7.21	7.01	6.81	6.61	6.50	6.40	6.29	6.18	6.06	5.95	.005				
2.42	2.38	2.34	2.30	2.28	2.25	2.23	2.21	2.18	2.16	.100	9			
3.14	3.07	3.01	2.94	2.90	2.86	2.83	2.79	2.75	2.71	.050				
3.96	3.87	3.77	3.67	3.61	3.56	3.51	3.45	3.39	3.33	.025				
5.26	5.11	4.96	4.81	4.73	4.65	4.57	4.48	4.40	4.31	.010				
6.42	6.23	6.03	5.83	5.73	5.62	5.52	5.41	5.30	5.19	.005				
2.32	2.28	2.24	2.20	2.18	2.16	2.13	2.11	2.08	2.06	.100	10			
2.98	2.91	2.85	2.77	2.74	2.70	2.66	2.62	2.58	2.54	.050				
3.72	3.62	3.52	3.42	3.37	3.31	3.26	3.20	3.14	3.08	.025				
4.85	4.71	4.56	4.41	4.33	4.25	4.17	4.08	4.00	3.91	.010				
5.85	5.66	5.47	5.27	5.17	5.07	4.97	4.86	4.75	4.64	.005				
2.25	2.21	2.17	2.12	2.10	2.08	2.05	2.03	2.00	1.97	.100	11			
2.85	2.79	2.72	2.65	2.61	2.57	2.53	2.49	2.45	2.40	.050				
3.53	3.43	3.33	3.23	3.17	3.12	3.06	3.00	2.94	2.88	.025				
4.54	4.40	4.25	4.10	4.02	3.94	3.86	3.78	3.69	3.60	.010				
5.42	5.24	5.05	4.86	4.76	4.65	4.55	4.44	4.34	4.23	.005				
2.19	2.15	2.10	2.06	2.04	2.01	1.99	1.96	1.93	1.90	.100	12			
2.75	2.69	2.62	2.54	2.51	2.47	2.43	2.38	2.34	2.30	.050				
3.37	3.28	3.18	3.07	3.02	2.96	2.91	2.85	2.79	2.72	.025				
4.30	4.16	4.01	3.86	3.78	3.70	3.62	3.54	3.45	3.36	.010				
5.09	4.91	4.72	4.53	4.43	4.33	4.23	4.12	4.01	3.90	.005				

		$v_1$								
		1	2	3	4	5	6	7	8	9
$v_2$	$\alpha$									
13	.100	3.14	2.76	2.56	2.43	2.35	2.28	2.23	2.20	2.16
	.050	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71
	.025	6.41	4.97	4.35	4.00	3.77	3.60	3.48	3.39	3.31
	.010	9.07	6.70	5.74	5.21	4.86	4.62	4.44	4.30	4.19
	.005	11.37	8.19	6.93	6.23	5.79	5.48	5.25	5.08	4.94
14	.100	3.10	2.73	2.52	2.39	2.31	2.24	2.19	2.15	2.12
	.050	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65
	.025	6.30	4.86	4.24	3.89	3.66	3.50	3.38	3.29	3.21
	.010	8.86	6.51	5.56	5.04	4.69	4.46	4.28	4.14	4.03
	.005	11.06	7.92	6.68	6.00	5.56	5.26	5.03	4.86	4.72
15	.100	3.07	2.70	2.49	2.36	2.27	2.21	2.16	2.12	2.09
	.050	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59
	.025	6.20	4.77	4.15	3.80	3.58	3.41	3.29	3.20	3.12
	.010	8.68	6.36	5.42	4.89	4.56	4.32	4.14	4.00	3.89
	.005	10.80	7.70	6.48	5.80	5.37	5.07	4.85	4.67	4.54
16	.100	3.05	2.67	2.46	2.33	2.24	2.18	2.13	2.09	2.06
	.050	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54
	.025	6.12	4.69	4.08	3.73	3.50	3.34	3.22	3.12	3.05
	.010	8.53	6.23	5.29	4.77	4.44	4.20	4.03	3.89	3.78
	.005	10.58	7.51	6.30	5.64	5.21	4.91	4.69	4.52	4.38
17	.100	3.03	2.64	2.44	2.31	2.22	2.15	2.10	2.06	2.03
	.050	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49
	.025	6.04	4.62	4.01	3.66	3.44	3.28	3.16	3.06	2.98
	.010	8.40	6.11	5.18	4.67	4.34	4.10	3.93	3.79	3.68
	.005	10.38	7.35	6.16	5.50	5.07	4.78	4.56	4.39	4.25
18	.100	3.01	2.62	2.42	2.29	2.20	2.13	2.08	2.04	2.00
	.050	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46
	.025	5.98	4.56	3.95	3.61	3.38	3.22	3.10	3.01	2.93
	.010	8.29	6.01	5.09	4.58	4.25	4.01	3.84	3.71	3.60
	.005	10.22	7.21	6.03	5.37	4.96	4.66	4.44	4.28	4.14
19	.100	2.99	2.61	2.40	2.27	2.18	2.11	2.06	2.02	1.98
	.050	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42
	.025	5.92	4.51	3.90	3.56	3.33	3.17	3.05	2.96	2.88
	.010	8.18	5.93	5.01	4.50	4.17	3.94	3.77	3.63	3.52
	.005	10.07	7.09	5.92	5.27	4.85	4.56	4.34	4.18	4.04
20	.100	2.97	2.59	2.38	2.25	2.16	2.09	2.04	2.00	1.96
	.050	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39
	.025	5.87	4.46	3.86	3.51	3.29	3.13	3.01	2.91	2.84
	.010	8.10	5.85	4.94	4.43	4.10	3.87	3.70	3.56	3.46
	.005	9.94	6.99	5.82	5.17	4.76	4.47	4.26	4.09	3.96
21	.100	2.96	2.57	2.36	2.23	2.14	2.08	2.02	1.98	1.95
	.050	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37
	.025	5.83	4.42	3.82	3.48	3.25	3.09	2.97	2.87	2.80
	.010	8.02	5.78	4.87	4.37	4.04	3.81	3.64	3.51	3.40
	.005	9.83	6.89	5.73	5.09	4.68	4.39	4.18	4.01	3.88
22	.100	2.95	2.56	2.35	2.22	2.13	2.06	2.01	1.97	1.93
	.050	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34
	.025	5.79	4.38	3.78	3.44	3.22	3.05	2.93	2.84	2.76
	.010	7.95	5.72	4.82	4.31	3.99	3.76	3.59	3.45	3.35
	.005	9.73	6.81	5.65	5.02	4.61	4.32	4.11	3.94	3.81
23	.100	2.94	2.55	2.34	2.21	2.11	2.05	1.99	1.95	1.92
	.050	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32
	.025	5.75	4.35	3.75	3.41	3.18	3.02	2.90	2.81	2.73
	.010	7.88	5.66	4.76	4.26	3.94	3.71	3.54	3.41	3.30
	.005	9.63	6.73	5.58	4.95	4.54	4.26	4.05	3.88	3.75
24	.100	2.93	2.54	2.33	2.19	2.10	2.04	1.98	1.94	1.91
	.050	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30
	.025	5.72	4.32	3.72	3.38	3.15	2.99	2.87	2.78	2.70
	.010	7.82	5.61	4.72	4.22	3.90	3.67	3.50	3.36	3.26
	.005	9.55	6.66	5.52	4.89	4.49	4.20	3.99	3.83	3.69
25	.100	2.92	2.53	2.32	2.18	2.09	2.02	1.97	1.93	1.89
	.050	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28
	.025	5.69	4.29	3.69	3.35	3.13	2.97	2.85	2.75	2.68
	.010	7.77	5.57	4.68	4.18	3.85	3.63	3.46	3.32	3.22
	.005	9.48	6.60	5.46	4.84	4.43	4.15	3.94	3.78	3.64
26	.100	2.91	2.52	2.31	2.17	2.08	2.01	1.96	1.92	1.88
	.050	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27
	.025	5.66	4.27	3.67	3.33	3.10	2.94	2.82	2.73	2.65
	.010	7.72	5.53	4.64	4.14	3.82	3.59	3.42	3.29	3.18
	.005	9.41	6.54	5.41	4.79	4.38	4.10	3.89	3.73	3.60

$v_1$										$\infty$	$\alpha$	$v_2$
10	12	15	20	24	30	40	60	120				
2.14	2.10	2.05	2.01	1.98	1.96	1.93	1.90	1.88	1.85	1.85	.100	13
2.67	2.60	2.53	2.46	2.42	2.38	2.34	2.30	2.25	2.21	2.21	.050	
3.25	3.15	3.05	2.95	2.92	2.84	2.78	2.72	2.66	2.60	2.60	.025	
4.10	3.96	3.12	3.66	3.59	3.51	3.43	3.34	3.25	3.17	3.17	.010	
4.12	4.64	4.46	4.27	4.17	4.07	3.97	3.87	3.76	3.65	3.65	.005	
2.10	2.05	2.01	1.96	1.94	1.91	1.89	1.86	1.83	1.80	1.80	.100	14
2.60	2.53	2.46	2.39	2.35	2.31	2.27	2.22	2.11	2.13	2.13	.050	
3.15	3.05	2.95	2.84	2.79	2.73	2.67	2.61	2.55	2.49	2.49	.025	
3.94	3.80	3.66	3.51	3.43	3.35	3.27	3.11	3.09	3.00	3.00	.010	
4.60	4.43	4.25	4.06	3.96	3.86	3.76	3.66	3.55	3.44	3.44	.005	
2.06	2.02	1.97	1.92	1.90	1.87	1.85	1.82	1.79	1.76	1.76	.100	15
2.54	2.48	2.40	2.33	2.29	2.25	2.20	2.16	2.11	2.07	2.07	.050	
3.06	2.96	2.86	2.76	2.70	2.64	2.59	2.52	2.46	2.40	2.40	.025	
3.80	3.67	3.52	3.37	3.29	3.21	3.13	3.05	2.96	2.87	2.87	.010	
4.42	4.25	4.07	3.88	3.79	3.69	3.58	3.48	3.37	3.26	3.26	.005	
2.03	1.99	1.94	1.19	1.87	1.84	1.81	1.78	1.75	1.72	1.72	.100	16
2.49	2.42	2.35	2.21	2.24	2.19	2.15	2.11	2.06	2.01	2.01	.050	
2.99	2.89	2.79	2.68	2.63	2.57	2.51	2.45	2.31	2.32	2.32	.015	
3.69	3.55	3.41	3.26	3.18	3.10	3.02	2.93	2.84	2.75	2.75	.010	
4.27	4.10	3.92	3.73	3.64	3.54	3.44	3.33	3.22	3.11	3.11	.005	
2.00	1.96	1.91	1.86	1.84	1.81	1.78	1.75	1.72	1.69	1.69	.100	17
2.45	2.38	2.31	2.23	2.19	2.15	2.10	2.06	2.01	1.96	1.96	.050	
2.92	2.82	2.72	2.62	2.56	2.50	2.44	2.38	2.32	2.25	2.25	.025	
3.59	3.46	3.31	3.16	3.08	3.00	2.92	2.83	2.75	2.65	2.65	.010	
4.14	3.97	3.79	3.61	3.51	3.41	3.31	3.21	3.10	2.98	2.98	.005	
1.98	1.93	1.89	1.84	1.81	1.78	1.75	1.72	1.69	1.66	1.66	.100	11
2.41	2.34	2.27	2.19	2.15	2.11	2.06	2.02	1.97	1.92	1.92	.050	
2.87	2.77	2.67	2.56	2.50	2.44	2.38	2.32	2.26	2.19	2.19	.025	
3.51	3.37	3.23	3.08	3.00	2.92	2.84	2.75	2.66	2.57	2.57	.010	
4.03	3.86	3.68	3.50	3.40	3.30	3.20	3.10	2.99	2.87	2.87	.005	
1.96	1.91	1.86	1.81	1.79	1.76	1.73	1.70	1.67	1.63	1.63	.100	19
2.38	2.31	2.23	2.16	2.11	2.07	2.03	1.98	1.93	1.88	1.88	.050	
2.82	2.72	2.62	2.51	2.45	2.39	2.33	2.27	2.20	2.13	2.13	.025	
3.43	3.30	3.15	3.00	2.92	2.84	2.76	2.67	2.58	2.49	2.49	.010	
3.93	3.76	3.59	3.40	3.31	3.21	3.11	3.00	2.89	2.78	2.78	.005	
1.94	1.89	1.84	1.79	1.77	1.74	1.71	1.68	1.64	1.61	1.61	.100	20
2.35	2.28	2.20	2.12	2.08	2.04	1.99	1.95	1.90	1.84	1.84	.050	
2.77	2.68	2.57	2.46	2.41	2.35	2.29	2.22	2.16	2.09	2.09	.025	
3.37	3.23	3.09	2.94	2.86	2.78	2.69	2.61	2.52	2.42	2.42	.010	
3.85	3.68	3.50	3.32	3.22	3.12	3.02	2.92	2.81	2.69	2.69	.005	
1.92	1.87	1.83	1.78	1.75	1.72	1.69	1.66	1.62	1.59	1.59	.100	21
2.32	2.25	2.18	2.10	2.01	2.01	1.96	1.92	1.87	1.81	1.81	.050	
2.73	2.64	2.53	2.42	2.37	2.31	2.25	2.18	2.11	2.04	2.04	.025	
3.31	3.17	3.03	2.88	2.80	2.72	2.64	2.55	2.46	2.36	2.36	.010	
3.77	3.60	3.43	3.24	3.15	3.05	2.95	2.84	2.73	2.61	2.61	.005	
1.90	1.86	1.11	1.76	1.73	1.70	1.67	1.64	1.60	1.57	1.57	.100	22
2.30	2.23	2.15	2.07	2.03	1.98	1.94	1.89	1.84	1.78	1.78	.050	
2.70	2.60	2.50	2.39	2.33	2.27	2.21	2.14	2.08	2.00	2.00	.025	
3.26	3.12	2.98	2.83	2.75	2.67	2.58	2.50	2.40	2.31	2.31	.010	
3.70	3.54	3.36	3.18	3.08	2.98	2.88	2.77	2.66	2.55	2.55	.005	
1.89	1.84	1.80	1.74	1.72	1.69	1.66	1.62	1.59	1.55	1.55	.100	23
2.27	2.20	2.13	2.05	2.01	1.96	1.91	1.86	1.81	1.76	1.76	.050	
2.67	2.57	2.47	2.36	2.30	2.24	2.18	2.11	2.04	1.97	1.97	.025	
3.21	3.07	2.93	2.78	2.70	2.62	2.54	2.45	2.35	2.26	2.26	.010	
3.64	3.47	3.30	3.12	3.02	2.92	2.82	2.71	2.60	2.48	2.48	.005	
1.88	1.83	1.78	1.73	1.70	1.67	1.64	1.61	1.57	1.53	1.53	.100	24
2.25	2.11	2.11	2.03	1.98	1.94	1.89	1.84	1.79	1.73	1.73	.050	
2.64	2.54	2.44	2.33	2.27	2.21	2.15	2.08	2.01	1.94	1.94	.025	
3.17	3.03	2.89	2.74	2.66	2.51	2.49	2.40	2.31	2.21	2.21	.010	
3.59	3.42	3.25	3.06	2.97	2.87	2.77	2.66	2.55	2.43	2.43	.005	
1.87	1.82	1.77	1.72	1.69	1.66	1.63	1.59	1.56	1.52	1.52	.100	25
2.24	2.16	2.09	2.01	1.96	1.92	1.87	1.82	1.77	1.71	1.71	.050	
2.61	2.51	2.41	2.30	2.24	2.11	2.12	2.05	1.98	1.91	1.91	.025	
3.13	2.99	2.85	2.70	2.62	2.54	2.45	2.36	2.27	2.17	2.17	.010	
3.54	3.37	3.20	3.01	2.92	2.82	2.72	2.61	2.50	2.38	2.38	.005	
1.86	1.81	1.76	1.71	1.68	1.65	1.61	1.58	1.54	1.50	1.50	.100	26
2.22	2.15	2.07	1.99	1.95	1.90	1.85	1.80	1.75	1.69	1.69	.050	
2.59	2.49	2.39	2.28	2.22	2.16	2.09	2.03	1.95	1.88	1.88	.025	
3.09	2.96	2.81	2.66	2.58	2.50	2.42	2.33	2.23	2.13	2.13	.010	
3.49	3.33	3.15	2.97	2.87	2.77	2.67	2.56	2.45	2.33	2.33	.005	

		$v_1$								
					6	7	8	9		
$v_2$	$\alpha$	1	2	3	4	5	6	7	8	9
27	.100	2.90	2.51	2.30	2.17	2.07	2.00	1.95	2.31	1.87
	.050	4.11	3.35	2.96	2.73	2.57	2.46	2.37	2.71	2.25
	.025	5.63	4.24	3.65	3.31	3.08	2.92	2.80	3.26	2.63
	.010	7.68	5.49	4.60	4.11	3.78	3.56	3.39	3.69	3.15
	.005	9.34	6.49	5.36	4.74	4.34	4.06	3.85	1.90	3.56
28	.100	2.89	2.50	2.29	2.16	2.06	2.00	1.94	2.29	1.87
	.050	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.69	2.24
	.025	5.61	4.22	3.63	3.29	3.06	2.90	2.78	3.23	2.61
	.010	7.64	5.45	4.57	4.07	3.75	3.53	3.36	3.65	3.12
	.005	9.21	6.44	5.32	4.70	4.30	4.02	3.81	1.89	3.52
29	.100	2.89	2.50	2.28	2.15	2.06	1.99	1.93	2.28	1.86
	.050	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.67	2.22
	.025	5.59	4.20	3.61	3.27	3.04	2.88	2.76	3.20	2.59
	.010	7.60	5.42	4.54	4.04	3.73	3.50	3.33	3.61	3.09
	.005	9.23	6.40	5.28	4.66	4.26	3.98	3.77	1.88	3.46
30	.100	2.88	2.49	2.28	2.14	2.05	1.98	1.93	2.27	1.85
	.050	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.65	2.21
	.025	5.57	4.18	3.59	3.25	3.03	2.87	2.75	3.17	2.57
	.010	7.56	5.39	4.51	4.02	3.70	3.47	3.30	3.58	3.07
	.005	9.18	6.35	5.24	4.62	4.23	3.95	3.74	1.83	3.45
40	.100	2.84	2.44	2.23	2.09	2.00	1.93	1.87	2.18	1.79
	.050	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.53	2.12
	.025	5.42	4.05	3.46	3.13	2.90	2.74	2.62	2.99	2.45
	.010	7.31	5.18	4.31	3.83	3.51	3.29	3.12	3.35	2.89
	.005	8.83	6.07	4.98	4.37	3.99	3.71	3.51	1.77	3.22
60	.100	2.79	2.39	2.18	2.04	1.95	1.87	1.82	2.10	1.74
	.050	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.41	2.04
	.025	5.29	3.93	3.34	3.01	2.79	2.63	2.51	2.82	2.33
	.010	7.08	4.98	4.13	3.65	3.34	3.12	2.95	3.13	2.72
	.005	8.59	5.79	4.73	4.14	3.76	3.49	3.29	1.72	3.01
120	.100	2.75	2.35	2.13	1.99	1.90	1.82	1.77	2.02	1.68
	.050	3.92	3.07	2.68	2.45	2.29	2.17	2.09	2.30	1.96
	.025	5.15	3.80	3.23	2.89	2.67	2.52	2.39	2.66	2.22
	.010	6.85	4.79	3.95	3.48	3.17	2.96	2.79	2.93	2.56
	.005	8.18	5.54	4.50	3.92	3.55	3.28	3.09	1.67	2.11
$\infty$	.100	2.71	2.30	2.08	1.94	1.85	1.77	1.72	1.94	1.63
	.050	3.84	3.00	2.60	2.37	2.21	2.10	2.01	2.19	1.63
	.025	5.02	3.69	3.12	2.79	2.57	2.41	2.29	2.51	2.11
	.010	6.63	4.61	3.78	3.32	3.02	2.80	2.64	2.74	2.41
	.005	7.88	5.30	4.28	3.72	3.35	3.09	2.90	2.31	2.62

10	12	15	20	$v_1$					$\infty$	$\alpha$	$v_2$
				24	30	40	60	120			
1.85	1.80	1.75	1.70	1.67	1.64	1.60	1.57	1.53	1.49	.100	27
2.20	2.13	2.06	1.97	1.93	1.88	1.84	1.79	1.73	1.67	.050	
2.57	2.47	2.36	2.25	2.19	2.13	2.07	2.00	1.93	1.15	.025	
3.06	2.93	2.78	2.63	2.55	2.47	2.38	2.29	2.20	2.10	.010	
3.45	3.28	3.11	2.93	2.83	2.73	2.63	2.52	2.41	2.29	.005	
1.84	1.79	1.74	1.69	1.66	1.63	1.59	1.56	1.52	1.48	.100	28
2.19	2.12	2.04	1.96	1.91	1.87	1.82	1.77	1.71	1.65	.050	
2.55	2.45	2.34	2.23	2.17	2.11	2.05	1.98	1.91	1.13	.025	
3.03	2.90	2.75	2.60	2.52	2.44	2.35	2.26	2.17	2.06	.010	
3.41	3.25	3.07	2.89	2.79	2.69	2.59	2.48	2.37	2.25	.005	
1.83	1.78	1.73	1.68	1.65	1.62	1.51	1.55	1.51	1.47	.100	29
2.18	2.10	2.03	1.94	1.90	1.85	1.81	1.75	1.70	1.64	.050	
2.53	2.43	2.32	2.21	2.15	2.09	2.03	1.96	1.89	1.11	.025	
3.00	2.87	2.73	2.57	2.49	2.41	2.33	2.23	2.14	2.03	.010	
3.38	3.21	3.04	2.86	2.76	2.66	2.56	2.45	2.33	2.21	.005	
1.82	1.77	1.72	1.67	1.64	1.61	1.57	1.54	1.50	1.46	.100	30
2.16	2.09	2.01	1.93	1.89	1.84	1.79	1.74	1.68	1.62	.050	
2.51	2.41	2.31	2.20	2.14	2.07	2.01	1.94	1.17	1.79	.015	
2.98	2.84	2.70	2.55	2.47	2.39	2.30	2.21	2.11	2.01	.010	
3.34	3.18	3.01	2.82	2.73	2.63	2.52	2.42	2.30	2.11	.005	
1.76	1.71	1.66	1.61	1.57	1.54	1.51	1.47	1.42	1.38	.100	40
2.08	2.00	1.92	1.84	1.79	1.74	1.69	1.64	1.51	1.51	.050	
2.39	2.29	2.18	2.07	2.01	1.94	1.88	1.80	1.72	1.64	.025	
2.80	2.66	2.52	2.37	2.29	2.20	2.11	2.02	1.92	1.80	.010	
3.12	2.95	2.78	2.60	2.50	2.40	2.30	2.11	2.06	1.93	.005	
1.71	1.66	1.60	1.54	1.51	1.48	1.44	1.40	1.35	1.29	.100	60
1.99	1.92	1.84	1.75	1.70	1.65	1.59	1.53	1.47	1.39	.050	
2.27	2.17	2.06	1.94	1.88	1.82	1.74	1.67	1.51	1.48	.025	
2.63	2.50	2.35	2.20	2.12	2.03	1.94	1.84	1.73	1.60	.010	
2.90	2.74	2.57	2.39	2.29	2.19	2.08	1.96	1.13	1.69	.005	
1.65	1.60	1.55	1.48	1.45	1.41	1.37	1.32	1.26	1.19	.100	120
1.91	1.83	1.75	1.66	1.61	1.55	1.50	1.43	1.35	1.25	.050	
2.16	2.05	1.94	1.82	1.76	1.69	1.61	1.53	1.43	1.31	.025	
2.47	2.34	2.19	2.03	1.95	1.86	1.76	1.66	1.53	1.38	.010	
2.71	2.54	2.37	2.19	2.09	1.98	1.87	1.75	1.61	1.43	.005	
1.60	1.55	1.49	1.42	1.38	1.34	1.30	1.24	1.17	1.00	.100	$\alpha$
1.83	1.75	1.67	1.57	1.52	1.46	1.39	1.32	1.22	1.00	.050	
2.05	1.94	1.83	1.71	1.64	1.57	1.48	1.39	1.27	1.00	.025	
2.32	2.18	2.04	1.88	1.79	1.70	1.59	1.47	1.32	1.00	.010	
2.52	2.36	2.19	2.00	1.90	1.79	1.67	1.53	1.36	1.00	.005	

Source: A portion of "Tables of percentage points of the inverted beta (F) distribution," *Biometrika*, Vol. 33 (1943) by M. Merrington and C. M. Thompson and from Table 18 of *Biometrika Tables for Statisticians*. Vol. 1. Third Edition (1966). Cambridge University Press, edited by E. S. Pearson and H. O. Hartley. Reproduced with permission of the authors, editors, and Biometrika Trustees.