Critical Values of the Kruskal-Wallis H Distribution

Taken from Zar, 1984 Table B.12

n_1	n_2	n_3	α = 0.10	0.05	0.02	0.01	0.005	0.002	0.001
2	2	2	4.571						
3	2	1	4.286						
3	2	2	4.500	4.714					
3	3	1	4.571	5.143					
3	3	2	4.556	5.361	6.250				
3	3	3	4.622	5.600	6.489	(7.200)	7.200		
4	2	1	4.500						
4	2	2	4.458	5.333	6.000				
4	3	1	4.056	5.208					
4	3	2	4.511	5.444	6.144	6.444	7.000		
4	3	3	4.709	5.791	6.564	6.745	7.318	8.018	
4	4	1	4.167	4.967	(6.667)	6.667			
4	4	2	4.555	5.455	6.600	7.036	7.282	7.855	
4	4	3	4.545	5.598	6.712	7.144	7.598	8.227	8.909
4	4	4	4.654	5.692	6.962	7.654	8.000	8.654	9.269
5	2	1	4.200	5.000					
5	2	2	4.373	5.160	6.000	6.533			
5	3	1	4.018	4.960	6.044				
5	3	2	4.651	5.251	6.124	6.909	7.182		
5	3	3	4.533	5.648	6.533	7.079	7.636	8.048	8.727
5	4	1	3.987	4.985	6.431	6.955	7.364		
5	4	2	4.541	5.273	6.505	7.205	7.573	8.114	8.591
5	4	3	4.549	5.656	6.676	7.445	7.927	8.481	8.795
5	4	4	4.619	5.657	6.953	7.760	8.189	8.868	9.168
5	5	1	4.109	5.127	6.145	7.309	8.182		
5	5	2	4.623	5.338	6.446	7.338	8.131	6.446	7.338
5	5	3	4.545	5.705	6.866	7.578	8.316	8.809	9.521
5	5	4	4.523	5.666	7.000	7.823	8.523	9.163	9.606
5	5	5	4.940	5.780	7.220	8.000	8.780	9.620	9.920
5	1	1	-----						
5	2	1	4.200	4.822					
6	2	2	4.545	5.345	6.182	6.982			
5	3	1	3.909	4.855	6.236				
5	3	2	4.682	5.348	6.227	6.970	7.515	8.182	
6	3	3	4.538	5.615	6.590	7.410	7.872	8.628	9.346
6	4	1	4.038	4.947	6.174	7.106	7.614		
6	4	2	4.494	5.340	6.571	7.340	7.846	8.494	8.827
5	4	3	4.604	5.610	6.725	7.500	8.033	8.918	9.170
5	4	4	4.595	5.681	6.900	7.795	8.381	9.167	9.861
5	5	1	4.128	4.990	6.138	7.182	8.077	8.515	
6	5	2	4.596	5.338	6.585	7.376	8.196	8.967	9.189
5	5	3	4.535	5.602	6.829	7.590	8.314	9.150	9.669
5	5	4	4.522	5.661	7.018	7.936	8.643	9.458	9.960
5	5	5	4.547	5.729	7.110	8.028	8.859	9.771	10.271
5	5	1	4.000	4.945	6.286	7.121	8.165	9.077	9.692
6	6	2	4.438	5.410	6.667	7.467	8.210	9.219	9.752
6	6	3	4.558	5.625	6.900	7.725	8.458	9.458	10.150
5	6	4	4.548	5.724	7.107	8.000	8.754	9.662	10.342
5	6	5	4.542	5.765	7.152	8.124	8.987	9.948	10.524
6	6	6	4.643	5.801	7.240	8.222	9.170	10.187	10.889

n_1	n_2	n_3	α = 0.10	0.05	0.02	0.01	0.005	0.002	0.001
7	7	7	4.594	5.819	7.332	8.378	9.373	10.516	11.310
8	8	8	4.595	5.805	7.355	8.465	9.495	10.805	11.705
2	2	1 1	-----						
2	2	2 1	5.357	5.679					
2	2	2 2	5.667	6.167	(6.667)	6.667			
3	1	1 1	-----						
3	2	1 1	5.143						
3	2	2 1	5.556	5.833	6.500				
3	2	2 2	5.544	5.333	6.978	7.133	7.533		
3	3	1 1	5.333	6.333					
3	3	2 1	5.689	6.244	6.689	7.200	7.400		
3	3	2 2	5.745	6.527	7.182	7.636	7.873	8.018	8.455
3	3	3 1	5.655	6.600	7.109	7.400	8.055	8.345	
3	3	3 2	5.879	6.727	7.636	8.105	8.379	8.803	9.030
3	3	3 3	6.026	7.000	7.872	8.538	8.897	9.462	9.513
4	1	1 1	-----						
4	2	1 1	5.250	5.833					
4	2	2 1	5.533	6.133	6.667	7.000			
4	2	2 2	5.755	6.545	7.091	7.391	7.964	8.291	
4	3	1 1	5.067	6.178	6.711	7.067			
4	3	2 1	5.591	6.309	7.018	7.455	7.773	8.182	
4	3	2 2	5.750	6.621	7.530	7.871	8.273	8.689	8.909
4	3	3 1	5.533	6.545	7.485	7.758	8.212	8.697	9.182
4	3	3 2	5.872	6.795	7.763	8.333	8.718	9.167	8.455
4	3	3 3	6.016	6.984	7.995	8.659	9.253	9.709	10.016
4	4	1 1	5.182	5.945	7.091	7.909	7.909		
4	4	2 1	5.568	6.386	7.364	7.886	8.341	8.591	8.909
4	4	2 2	5.808	6.731	7.750	8.346	8.692	9.269	9.462
4	4	3 1	5.692	6.635	7.660	8.231	8.583	9.038	9.327
4	4	3 2	5.901	6.874	7.951	8.621	9.165	9.615	9.945
4	4	3 3	6.019	7.038	8.181	8.876	9.495	10.105	10.467
4	4	4 1	5.554	6.725	7.879	8.588	9.000	9.478	9.758
4	4	4 2	5.914	6.957	8.157	8.871	9.486	10.043	10.429
4	4	4 3	6.042	7.142	8.350	9.075	9.742	10.542	10.929
4	4	4 4	6.088	7.235	8.515	9.287	9.971	10.809	11.338
2	1	1 1 1	-----						
2	2	1 1 1	5.785						
2	2	2 1 1	6.250	6.750					
2	2	2 2 1	6.600	7.133	(7.533)	7.533			
2	2	2 2 2	6.982	7.418	8.073	8.291	(8.727)	8.727	
3	1	1 1 1	-----						
3	2	1 1 1	6.139	6.583					
3	2	2 1 1	6.511	6.800	7.400	7.600			
3	2	2 2 1	6.709	7.309	7.836	8.127	8.327	8.618	
3	2	2 2 2	6.955	7.682	8.303	8.682	8.985	9.273	9.364
3	3	1 1 1	6.311	7.111	7.467				
3	3	2 1 1	6.600	7.200	7.892	8.073	8.345		
3	3	2 2 1	6.788	7.591	8.258	8.576	8.924	9.167	9.303
3	3	2 2 2	7.026	7.910	8.667	9.115	9.474	9.769	10.026
3	3	3 1 1	6.788	7.576	8.242	8.424	8.848	(9.455)	9.455
3	3	3 2 1	6.910	7.759	8.590	9.051	9.410	9.769	9.974
3	3	3 2 2	7.121	8.044	9.011	9.505	9.890	10.330	10.637
3	3	3 3 1	7.077	8.000	8.879	9.451	9.846	10.286	10.549
3	3	3 3 2	7.210	8.200	9.267	9.876	10.333	10.838	11.171
3	3	3 3 3	7.333	8.333	9.467	10.200	10.733	10.267	11.667