

**CDC 2R071**

# **Maintenance Management Analysis Craftsman**

**Supplementary Material for Volume 1.**

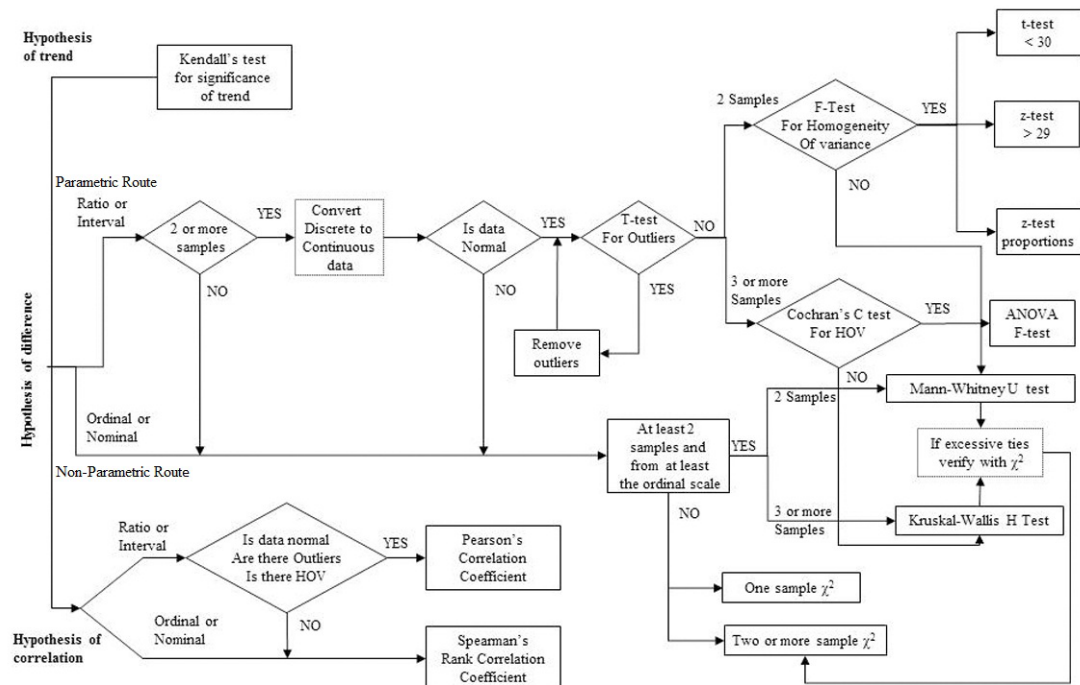
**Foldouts**



**Air Force Career Development Academy  
Air University  
Air Education and Training Command**

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Hypothesis Testing Flow Chart

Foldout 1. Hypothesis Testing Flow Chart

3	1.15	1.15	1.15
4	1.46	1.48	1.49
5	1.67	1.71	1.75
6	1.82	1.89	1.94
7	1.94	2.02	2.1
8	2.03	2.13	2.22
9	2.11	2.21	2.32
10	2.18	2.29	2.41
11	2.23	2.36	2.48
12	2.29	2.41	2.55
13	2.33	2.46	2.61
14	2.37	2.51	2.66
15	2.41	2.55	2.71
16	2.44	2.59	2.75
17	2.47	2.62	2.79
18	2.5	2.65	2.82
19	2.53	2.68	2.85
20	2.56	2.71	2.88
21	2.58	2.73	2.91
22	2.6	2.76	2.94
23	2.62	2.78	2.96
24	2.64	2.80	2.99
25	2.66	2.82	3.01
30	2.75	2.91	$T_L = \frac{X_L - \bar{X}}{s}$
35	2.82	2.98	
40	2.87	3.04	$T_S = \frac{\bar{X} - X_S}{s}$
45	2.92	3.09	
50	2.96	3.13	
60	3.03	3.20	
70	3.09	3.26	
80	3.14	3.31	
90	3.18	3.35	
100	3.21	3.38	

Table of T-Critical Values

71V1U5002

Foldout 2. Table of T-Critical Values.





Two Tail t							One Tail t						
df	0.1	0.05	0.025	0.01	0.005	0.001	df	0.1	0.05	0.025	0.01	0.005	0.001
1	6.314	12.706	25.452	63.657	127.321	636.619	1	3.078	6.314	12.706	31.821	63.657	318.309
2	2.920	4.303	6.205	9.925	14.089	31.599	2	1.886	2.920	4.303	6.965	9.925	22.327
3	2.353	3.182	4.177	5.841	7.453	12.924	3	1.638	2.353	3.182	4.541	5.841	10.215
4	2.132	2.776	3.495	4.604	5.598	8.610	4	1.533	2.132	2.776	3.747	4.604	7.173
5	2.015	2.571	3.163	4.032	4.773	6.869	5	1.476	2.015	2.571	3.365	4.032	5.893
6	1.943	2.447	2.969	3.707	4.317	5.959	6	1.440	1.943	2.447	3.143	3.707	5.208
7	1.895	2.365	2.841	3.499	4.029	5.408	7	1.415	1.895	2.365	2.998	3.499	4.785
8	1.860	2.306	2.752	3.355	3.833	5.041	8	1.397	1.860	2.306	2.896	3.355	4.501
9	1.833	2.262	2.685	3.250	3.690	4.781	9	1.383	1.833	2.262	2.821	3.250	4.297
10	1.812	2.228	2.634	3.169	3.581	4.587	10	1.372	1.812	2.228	2.764	3.169	4.144
11	1.796	2.201	2.593	3.106	3.497	4.437	11	1.363	1.796	2.201	2.718	3.106	4.025
12	1.782	2.179	2.560	3.055	3.428	4.318	12	1.356	1.782	2.179	2.681	3.055	3.930
13	1.771	2.160	2.533	3.012	3.372	4.221	13	1.350	1.771	2.160	2.650	3.012	3.852
14	1.761	2.145	2.510	2.977	3.326	4.140	14	1.345	1.761	2.145	2.624	2.977	3.787
15	1.753	2.131	2.490	2.947	3.286	4.073	15	1.341	1.753	2.131	2.602	2.947	3.733
16	1.746	2.120	2.473	2.921	3.252	4.015	16	1.337	1.746	2.120	2.583	2.921	3.686
17	1.740	2.110	2.458	2.898	3.222	3.965	17	1.333	1.740	2.110	2.567	2.898	3.646
18	1.734	2.101	2.445	2.878	3.197	3.922	18	1.330	1.734	2.101	2.552	2.878	3.610
19	1.729	2.093	2.433	2.861	3.174	3.883	19	1.328	1.729	2.093	2.539	2.861	3.579
20	1.725	2.086	2.423	2.845	3.153	3.850	20	1.325	1.725	2.086	2.528	2.845	3.552
21	1.721	2.080	2.414	2.831	3.135	3.819	21	1.323	1.721	2.080	2.518	2.831	3.527
22	1.717	2.074	2.405	2.819	3.119	3.792	22	1.321	1.717	2.074	2.508	2.819	3.505
23	1.714	2.069	2.398	2.807	3.104	3.768	23	1.319	1.714	2.069	2.500	2.807	3.485
24	1.711	2.064	2.391	2.797	3.091	3.745	24	1.318	1.711	2.064	2.492	2.797	3.467
25	1.708	2.060	2.385	2.787	3.078	3.725	25	1.316	1.708	2.060	2.485	2.787	3.450
26	1.706	2.056	2.379	2.779	3.067	3.707	26	1.315	1.706	2.056	2.479	2.779	3.435
27	1.703	2.052	2.373	2.771	3.057	3.690	27	1.314	1.703	2.052	2.473	2.771	3.421
28	1.701	2.048	2.368	2.763	3.047	3.674	28	1.313	1.701	2.048	2.467	2.763	3.408
29	1.699	2.045	2.364	2.756	3.038	3.659	29	1.311	1.699	2.045	2.462	2.756	3.396
30	1.697	2.042	2.360	2.750	3.030	3.646	30	1.310	1.697	2.042	2.457	2.750	3.385
40	1.684	2.021	2.329	2.704	2.971	3.551	40	1.303	1.684	2.021	2.423	2.704	3.307
60	1.671	2.000	2.299	2.660	2.915	3.460	60	1.296	1.671	2.000	2.390	2.660	3.232
120	1.658	1.980	2.270	2.617	2.860	3.373	120	1.289	1.658	1.980	2.358	2.617	3.160
∞	1.645	1.960	2.241	2.576	2.807	3.291	∞	1.282	1.645	1.960	2.326	2.576	3.090

Table of t-Critical Values

Foldout 4. Table of t-Critical Values.

Z	0.0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	.0000	.0040	.0080	.0120	.0160	.0199	.0239	.0279	.0319	.0359
0.1	.0398	.0438	.0478	.0517	.0557	.0596	.0636	.0675	.0714	.0753
0.2	.0793	.0832	.0871	.0910	.0948	.0987	.1026	.1064	.1103	.1141
0.3	.1179	.1217	.1255	.1293	.1331	.1368	.1406	.1443	.1480	.1517
0.4	.1554	.1591	.1628	.1664	.1700	.1736	.1772	.1808	.1844	.1879
0.5	.1915	.1950	.1985	.2019	.2054	.2088	.2123	.2157	.2190	.2224
0.6	.2257	.2291	.2324	.2357	.2389	.2422	.2454	.2486	.2517	.2549
0.7	.2580	.2611	.2642	.2673	.2704	.2734	.2764	.2794	.2823	.2852
0.8	.2881	.2910	.2939	.2967	.2995	.3023	.3051	.3078	.3106	.3133
0.9	.3159	.3186	.3212	.3238	.3264	.3289	.3315	.3340	.3365	.3389
1.0	.3413	.3438	.3461	.3485	.3508	.3531	.3554	.3577	.3599	.3621
1.1	.3643	.3665	.3686	.3708	.3729	.3749	.3770	.3790	.3810	.3830
1.2	.3849	.3869	.3888	.3907	.3925	.3944	.3962	.3980	.3997	.4015
1.3	.4032	.4049	.4066	.4082	.4099	.4115	.4131	.4147	.4162	.4177
1.4	.4192	.4207	.4222	.4236	.4251	.4265	.4279	.4292	.4306	.4319
1.5	.4332	.4345	.4357	.4370	.4382	.4394	.4406	.4418	.4429	.4441
1.6	.4452	.4463	.4474	.4484	.4495	.4505	.4515	.4525	.4535	.4545
1.7	.4554	.4564	.4573	.4582	.4591	.4599	.4608	.4616	.4625	.4633
1.8	.4641	.4649	.4656	.4664	.4671	.4678	.4686	.4693	.4699	.4706
1.9	.4713	.4719	.4726	.4732	.4738	.4744	.4750	.4756	.4761	.4767
2.0	.4772	.4778	.4783	.4788	.4793	.4798	.4803	.4808	.4812	.4817
2.1	.4821	.4826	.4830	.4834	.4838	.4842	.4846	.4850	.4854	.4857
2.2	.4861	.4864	.4868	.4871	.4875	.4878	.4881	.4884	.4887	.4890
2.3	.4893	.4896	.4898	.4901	.4904	.4906	.4909	.4911	.4913	.4916
2.4	.4918	.4920	.4922	.4925	.4927	.4929	.4931	.4932	.4934	.4936
2.5	.4938	.4940	.4941	.4943	.4945	.4946	.4948	.4949	.4951	.4952
2.6	.4953	.4955	.4956	.4957	.4959	.4960	.4961	.4962	.4963	.4964
2.7	.4965	.4966	.4967	.4968	.4969	.4970	.4971	.4972	.4973	.4974
2.8	.4974	.4975	.4976	.4977	.4977	.4978	.4979	.4979	.4980	.4981
2.9	.4981	.4982	.4982	.4983	.4984	.4984	.4985	.4985	.4986	.4986
3.0	.4987	.4987	.4987	.4988	.4988	.4989	.4989	.4989	.4990	.4990
3.1	.4990									
3.2	.4993									
3.3	.4995									
3.4	.4997									
3.5	.4998									
4.0	.4999									

A. NORMAL CURVE AREA TABLE

Areas In One Tail of the Normal Curve at Selected values of z										
Z	0.0	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	.5000	.4960	.4920	.4880	.4840	.4801	.4761	.4721	.4681	.4641
0.1	.4602	.4562	.4522	.4483	.4443	.4404	.4364	.4325	.4286	.4247
0.2	.4207	.4168	.4129	.4090	.4052	.4013	.3974	.3936	.3897	.3859
0.3	.3821	.3783	.3745	.3707	.3669	.3632	.3594	.3557	.3520	.3483
0.4	.3446	.3409	.3372	.3336	.3300	.3264	.3228	.3192	.3156	.3121
0.5	.3085	.3050	.3015	.2981	.2946	.2912	.2877	.2843	.2810	.2776
0.6	.2743	.2709	.2676	.2643	.2611	.2578	.2546	.2514	.2483	.2451
0.7	.2420	.2389	.2358	.2327	.2296	.2266	.2236	.2206	.2177	.2148
0.8	.2119	.2090	.2061	.2033	.2005	.1977	.1949	.1922	.1894	.1867
0.9	.1841	.1814	.1788	.1762	.1736	.1711	.1685	.1660	.1635	.1611
1.0	.1587	.1562	.1539	.1515	.1492	.1469	.1446	.1423	.1401	.1379
1.1	.1357	.1335	.1314	.1292	.1271	.1251	.1230	.1210	.1190	.1170
1.2	.1151	.1131	.1112	.1093	.1075	.1056	.1038	.1020	.1003	.0985
1.3	.0968	.0951	.0934	.0918	.0901	.0885	.0869	.0853	.0838	.0823
1.4	.0808	.0793	.0778	.0764	.0749	.0735	.0721	.0708	.0694	.0681
1.5	.0668	.0655	.0643	.0630	.0618	.0606	.0594	.0582	.0571	.0559
1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475	.0465	.0455
1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384	.0375	.0367
1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307	.0301	.0294
1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244	.0239	.0233
2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192	.0188	.0183
2.1	.0179	.0174	.0170	.0166	.0162	.0158	.0154	.0150	.0146	.0143
2.2	.0139	.0136	.0132	.0129	.0125	.0122	.0119	.0116	.0113	.0110
2.3	.0107	.0104	.0102	.0099	.0096	.0094	.0091	.0089	.0087	.0084
2.4	.0082	.0080	.0078	.0075	.0073	.0071	.0069	.0068	.0066	.0064
2.5	.0062	.0060	.0059	.0057	.0055	.0054	.0052	.0051	.0049	.0048
2.6	.0047	.0045	.0044	.0043	.0041	.0040	.0039	.0038	.0037	.0036
2.7	.0035	.0034	.0033	.0032	.0031	.0030	.0029	.0028	.0027	.0026
2.8	.0026	.0025	.0024	.0023	.0023	.0022	.0021	.0021	.0020	.0019
2.9	.0019	.0018	.0018	.0017	.0016	.0016	.0015	.0015	.0014	.0014
3.0	.0013	.0013	.0013	.0012	.0012	.0011	.0011	.0011	.0010	.0010

B. NORMAL CURVE TAIL AREA TABLE (RIGHT TAIL)

## Foldout 5. Normal Curve Area.

**N2=3**

U\N1	1	2	3
0	.250	.100	.050
1	.500	.200	.100
2	.750	.400	.200
3		.600	.350
4		.500	
5		.650	

**N2=4**

U\N1	1	2	3	4
0	.200	.067	.028	.014
1	.400	.133	.057	.029
2	.600	.267	.114	.057
3		.400	.200	.100
4		.600	.314	.171
5			.429	.243
6			.571	.343
7				.443
8				.557

**N2=5**

U\N1	1	2	3	4	5
0	.167	.047	.018	.008	.004
1	.333	.095	.036	.016	.008
2	.500	.190	.071	.032	.016
3	.667	.286	.125	.056	.028
4		.429	.196	.095	.048
5		.571	.286	.143	.075
6			.393	.206	.111
7			.500	.278	.155
8			.607	.365	.210
9				.452	.274
10				.548	.345
11					.421
12					.500
13					.579

**N2=6**

U\N1	1	2	3	4	5	6
0	.143	.036	.012	.005	.002	.001
1	.286	.071	.024	.010	.004	.002
2	.428	.143	.048	.019	.009	.004
3	.571	.214	.083	.033	.015	.008
4		.321	.131	.057	.026	.013
5		.429	.190	.086	.041	.021
6		.571	.274	.129	.063	.032
7			.357	.176	.089	.047
8			.452	.238	.123	.066
9			.548	.305	.165	.090
10				.381	.214	.120
11				.457	.268	.155
12				.545	.331	.197
13					.396	.242
14					.465	.294
15					.535	.350
16						.409
17						.469
18						.531

**N2=7**

U\N1	1	2	3	4	5	6	7
0	.125	.028	.008	.003	.001	.001	.000
1	.250	.111	.017	.006	.003	.001	.001
2	.375	.167	.033	.012	.005	.002	.001
3	.500	.250	.058	.021	.009	.004	.002
4	.625	.333	.092	.036	.015	.007	.003
5		.444	.133	.055	.024	.011	.006
6		.556	.192	.082	.037	.017	.009
7			.258	.115	.053	.026	.013
8			.333	.158	.074	.037	.019
9			.417	.206	.101	.051	.027
10			.500	.264	.134	.069	.036
11			.583	.324	.172	.090	.049
12				.394	.216	.117	.064
13				.464	.265	.147	.082
14				.538	.319	.183	.104
15					.378	.223	.130
16					.438	.267	.159
17					.500	.314	.191
18					.562	.365	.228
19						.418	.267
20						.473	.310
21						.527	.355
22							.402
23							.451
24							.500
25							.549

**N2=8**

U\N1	1	2	3	4	5	6	7	8
0	.111	.022	.006	.002	.001	.000	.000	.000
1	.222	.044	.012	.004	.002	.001	.000	.000
2	.333	.089	.024	.008	.003	.002	.001	.000
3	.444	.133	.042	.014	.005	.004	.001	.001
4	.556	.200	.067	.024	.009	.006	.002	.001
5		.267	.097	.036	.015	.010	.003	.001
6		.356	.139	.055	.023	.015	.005	.002
7		.444	.188	.077	.033	.021	.007	.003
8		.556	.248	.107	.047	.030	.010	.005
9			.315	.141	.064	.041	.014	.007
10			.387	.184	.085	.054	.020	.010
11			.461	.230	.111	.071	.027	.014
12			.539	.285	.142	.091	.036	.019
13				.341	.177	.114	.047	.025
14				.404	.217	.141	.060	.032
15				.467	.262	.172	.076	.041
16				.533	.311	.207	.095	.052
17					.362	.245	.116	.065
18					.416	.286	.140	.080
19					.472	.331	.168	.097
20					.528	.377	.198	.117
21						.426	.232	.139
22						.475	.268	.164
23						.525	.306	.191
24							.347	.221
25							.389	.253
26							.433	.287
27							.478	.323
28							.522	.360
29								.399
30								.439
31								.480
32								.520

Table of U-Critical Values  
8 or Less Samples

Foldout 6. Table of U-Critical Values -8 or Less Samples.



One Tail alpha = .05

N for Smaller Sample Size	9	10	11	12	13	14	15	16	17	18	19	20
	1										0	0
	2	1	1	2	2	2	3	3	3	4	4	4
	3	3	4	5	5	6	7	7	8	9	10	11
	4	6	7	8	9	10	11	12	14	15	17	18
	5	9	11	12	13	15	16	18	19	20	22	25
	6	12	14	16	17	19	21	23	25	26	28	32
	7	15	17	19	21	24	26	28	30	33	35	39
	8	18	20	23	26	28	31	33	36	39	41	47
	9	21	24	27	30	33	36	39	42	45	48	54
	10	24	27	31	34	37	41	44	48	51	55	62
	11	27	31	34	38	42	46	50	54	57	61	69
	12	30	34	38	42	47	51	55	60	64	68	77
	13	33	37	42	47	51	56	61	65	70	75	84
	14	36	41	46	51	56	61	66	71	77	82	92
	15	39	44	50	55	61	66	72	77	83	88	100
	16	42	48	54	60	65	71	77	83	89	95	107
	17	45	51	57	64	70	77	83	89	96	102	115
	18	48	55	61	68	75	82	88	95	102	109	123
	19	51	58	65	72	80	87	94	101	109	116	130
	20	54	62	69	77	84	92	100	107	115	123	138

One Tail alpha = .01

N for Smaller Sample Size	9	10	11	12	13	14	15	16	17	18	19	20
	1											
	2				0	0	0	0	0	0	1	1
	3	1	1	2	2	2	3	3	4	4	4	5
	4	3	3	4	5	5	6	7	8	9	9	10
	5	5	6	7	8	9	10	11	12	13	14	16
	6	7	8	9	11	12	13	15	16	18	19	22
	7	9	11	12	14	16	17	19	21	23	24	28
	8	11	13	15	17	20	22	24	26	28	30	34
	9	14	16	18	21	23	26	28	31	33	36	40
	10	16	19	22	24	27	30	33	36	38	41	47
	11	18	22	25	28	31	34	37	41	44	47	53
	12	21	24	28	31	35	38	42	46	49	53	60
	13	23	27	31	35	39	43	47	51	55	59	67
	14	26	30	34	38	43	47	51	56	60	65	73
	15	28	33	37	42	47	51	56	61	66	70	80
	16	31	36	41	46	51	56	61	66	71	76	87
	17	33	38	44	49	55	60	66	71	77	82	93
	18	36	41	47	53	59	65	70	76	82	88	100
	19	38	44	50	56	63	69	75	82	88	94	107
	20	40	47	53	60	67	73	80	87	93	100	114

Table of U-Critical Values  
9 or More Samples

Foldout 7. Table of U-Critical Values -9 or More Samples.

Sample Sizes			H	P	Sample Sizes			H	P
N1	N2	N3			N1	N2	N3		
2	1	1	2.700	.500	4	3	2	6.4444	.008
								6.3000	.011
2	2	1	3.600	.200				5.4444	.046
								5.4000	.051
2	2	2	4.571	.067				4.5111	.098
			3.714	.200				4.4444	.102
3	1	1	3.200	.300	4	3	3	6.7455	.010
3	2	1	4.286	.100				6.7091	.013
			3.857	.133				5.7909	.046
								5.7273	.050
3	2	2	5.357	.029				4.7091	.092
			4.714	.048				4.7000	.101
			4.500	.067					
			4.464	.105	4	4	1	6.6667	.010
								6.1667	.022
3	3	1	5.143	.043				4.9667	.048
			4.571	.100				4.8667	.054
			4.000	.129				4.1667	.082
3	3	2	6.250	.011				4.0667	.102
			5.361	.032	4	4	2	7.0364	.006
			5.139	.061				6.8727	.011
			4.556	.100				5.4545	.046
			4.250	.121				5.2364	.052
3	3	3	7.200	.004				4.5545	.098
			6.489	.011				4.4455	.103
			5.689	.029	4	4	3	7.1439	.010
			5.600	.050				7.1364	.011
			5.067	.086				5.5985	.049
			4.622	.100				5.5758	.051
4	1	1	3.571	.200				4.5455	.099
								4.4773	.102
4	2	1	4.821	.057					
			4.500	.076	4	4	4	7.6538	.008
			4.018	.114				7.5385	.011
								5.6923	.049
4	2	2	6.000	.014				5.6538	.054
			5.333	.033				4.6539	.097
			5.125	.052				4.5001	.104
			4.458	.100					
			4.167	.105	5	1	1	3.8571	.143
4	3	1	5.833	.021		2	1	5.2500	.036
			5.208	.050				5.0000	.048
			5.000	.057				4.4500	.071
			4.056	.093				4.2000	.095
			3.889	.129				4.0500	0.119

Sample Sizes			H	P	Sample Sizes			H	P
N1	N2	N3			N1	N2	N3		
5	2	2	6.5333	.008				5.6308	.050
			6.1333	.013				4.5487	.099
			5.1600	.034				4.5231	.103
			5.0400	.056					
			4.3733	.090	5	4	4	7.7604	.009
			4.2933	.122				7.7440	.011
5	3	1	6.4000	.012				5.6571	.049
			4.9600	.048				5.6176	.050
			4.8711	.052				4.6187	.100
			4.0178	.095				4.5527	.102
			3.8400	.123	5	5	1	7.3091	.009
5	3	2	6.9091	.009				6.8364	.011
			6.8218	.010				5.1273	.046
			5.2509	.049				4.9091	.053
			5.1055	.052				4.1091	.086
			4.6509	.091				4.0364	.105
			4.4945	.101	5	5	2	7.3385	.010
5	3	3	7.0788	.009				7.2692	.010
			6.9818	.011				5.3385	.047
			5.6485	.049				5.2462	.051
			5.5152	.051				4.6231	.097
			4.5333	.097				4.5077	.100
			4.4121	.109	5	5	3	7.5780	.010
5	4	1	6.9545	.008				7.5429	.010
			6.8400	.011				5.7055	.046
			4.9855	.044				5.6264	.051
			4.8600	.056				4.5451	.100
			3.9873	.098				4.5363	.102
			3.9600	.102	5	5	4	7.8229	.010
5	4	2	7.2045	.009				7.7914	.010
			7.1182	.010				5.6657	.049
			5.2727	.049				5.6429	.050
			5.2682	.050				4.5229	.099
			4.5409	.098				4.5200	.101
			4.5182	.101	5	5	5	8.0000	.009
5	4	3	7.4449	.010				7.9800	.010
			7.3949	.011				5.7800	.049
			5.6564	.049				5.6600	.051
								4.5600	.100
								4.5000	.102

Table of Probabilities for  
Kruskal-Wallis H-Test

Foldout 8. Table of Probabilities for Kruskal-Wall H-Test.

## PROBABILITY

df	.99	.98	.95	.90	.80	.70	.50	.30	.20	.10	.05	.02	.01	.001
1	0.157	0.1628	.00393	.0158	.0642	.148	.455	1.074	1.642	2.706	3.841	5.412	6.635	10.827
2	.0201	.0404	.103	.211	.446	.713	1.386	2.408	3.219	4.605	5.991	7.824	9.210	13.815
3	.115	.185	.352	.584	1.005	1.424	2.366	3.665	4.642	6.251	7.815	9.837	11.345	16.268
4	.297	.429	.711	1.064	1.649	2.195	3.357	4.878	5.989	7.779	9.488	11.668	13.277	18.465
5	.554	.752	1.145	1.610	2.343	3.000	4.351	6.064	7.289	9.236	11.070	13.388	15.086	20.517
6	.872	1.134	1.635	2.204	3.070	3.828	5.348	7.231	8.558	10.645	12.592	15.033	16.812	22.457
7	1.239	1.564	2.167	2.833	3.822	4.671	6.346	8.383	9.803	12.017	14.067	16.622	18.475	24.322
8	1.646	2.032	2.733	3.490	4.594	5.527	7.344	9.524	11.030	13.362	15.507	18.168	20.090	26.125
9	2.088	2.532	3.325	4.168	5.380	6.393	8.343	10.656	12.242	14.684	16.919	19.679	21.666	27.877
10	2.558	3.059	3.940	4.865	6.179	7.267	9.342	11.781	13.442	15.987	18.307	21.161	23.209	29.588
11	3.053	3.609	4.575	5.578	6.989	8.148	10.341	12.899	14.631	17.275	19.675	22.618	24.725	31.264
12	3.571	4.178	5.226	6.304	7.807	9.034	11.340	14.011	15.812	18.549	21.026	24.054	26.217	32.909
13	4.107	4.765	5.892	7.042	8.634	9.926	12.340	15.119	16.985	19.812	22.362	25.472	27.688	34.528
14	4.660	5.368	6.571	7.790	9.467	10.821	13.339	16.222	18.151	21.064	23.685	26.873	29.141	36.123
15	5.229	5.985	7.261	8.547	10.307	11.721	14.339	17.322	19.311	22.307	24.996	28.259	30.578	37.697
16	5.812	6.614	7.962	9.312	11.152	12.624	15.338	18.418	20.465	23.542	26.296	29.633	32.000	39.252
17	6.408	7.255	8.672	10.085	12.002	13.351	16.338	19.511	21.615	24.769	27.587	30.995	33.409	40.790
18	7.015	7.906	9.390	10.865	12.857	14.440	17.338	20.601	22.760	25.989	28.869	32.346	34.805	42.312
19	7.633	8.567	10.117	11.651	13.716	15.352	18.338	21.689	23.900	27.204	30.144	33.687	36.191	43.820
20	8.260	9.237	10.851	12.443	14.578	16.266	19.337	22.775	25.038	28.412	31.410	35.020	37.566	45.315
21	8.897	9.915	11.591	13.240	15.445	17.182	20.337	23.858	26.171	29.615	32.671	36.343	38.932	46.797
22	9.542	10.600	12.338	14.041	16.314	18.101	21.337	24.939	27.301	30.813	33.924	37.659	40.289	48.268
23	10.196	11.293	13.091	14.848	17.187	19.021	22.337	26.018	28.429	32.007	35.172	38.968	41.638	49.728
24	10.856	11.992	13.848	15.659	18.062	19.943	23.337	27.096	29.553	33.196	36.415	40.270	43.980	51.179
25	11.524	12.697	14.611	16.473	18.940	20.867	24.337	28.172	30.675	34.382	37.652	41.566	44.314	52.620
26	12.198	13.409	15.379	17.292	19.820	21.792	25.336	29.246	31.795	35.563	38.885	42.856	45.642	54.052
27	12.879	14.125	16.151	18.114	20.703	22.719	26.336	30.319	32.912	36.741	40.113	44.140	46.963	55.476
28	13.565	14.847	16.928	18.939	21.588	23.647	27.336	31.391	34.027	37.916	41.337	45.419	48.278	56.893
29	14.256	15.574	17.708	19.768	22.475	24.577	28.336	32.461	35.139	39.087	42.557	46.693	49.588	58.302
30	14.953	16.306	18.493	20.599	23.364	25.508	29.336	33.530	36.250	40.256	43.773	47.962	50.892	59.703

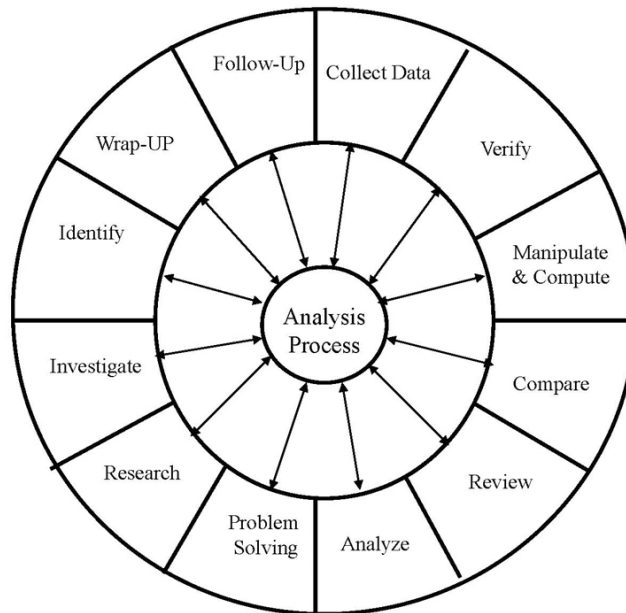
Note:  $\alpha = 0.000$ 

S:\255550009

## TABLE OF CRITICAL VALUES FOR CHI-SQUARE TEST

Foldout 9. Table of Critical Values for Chi-Square Test.

## The Analysis Wheel

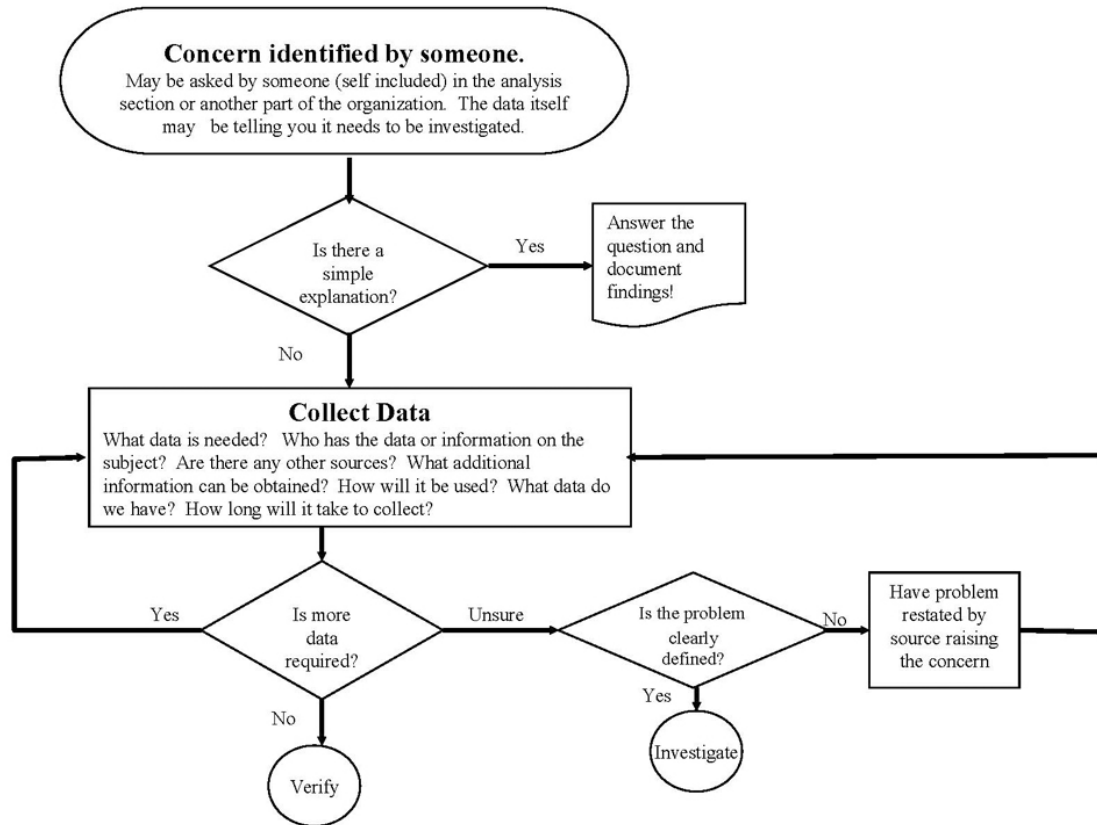


2R071V1U5001

These are the Processes, Rarely in order, Repeated many times, Never ending!

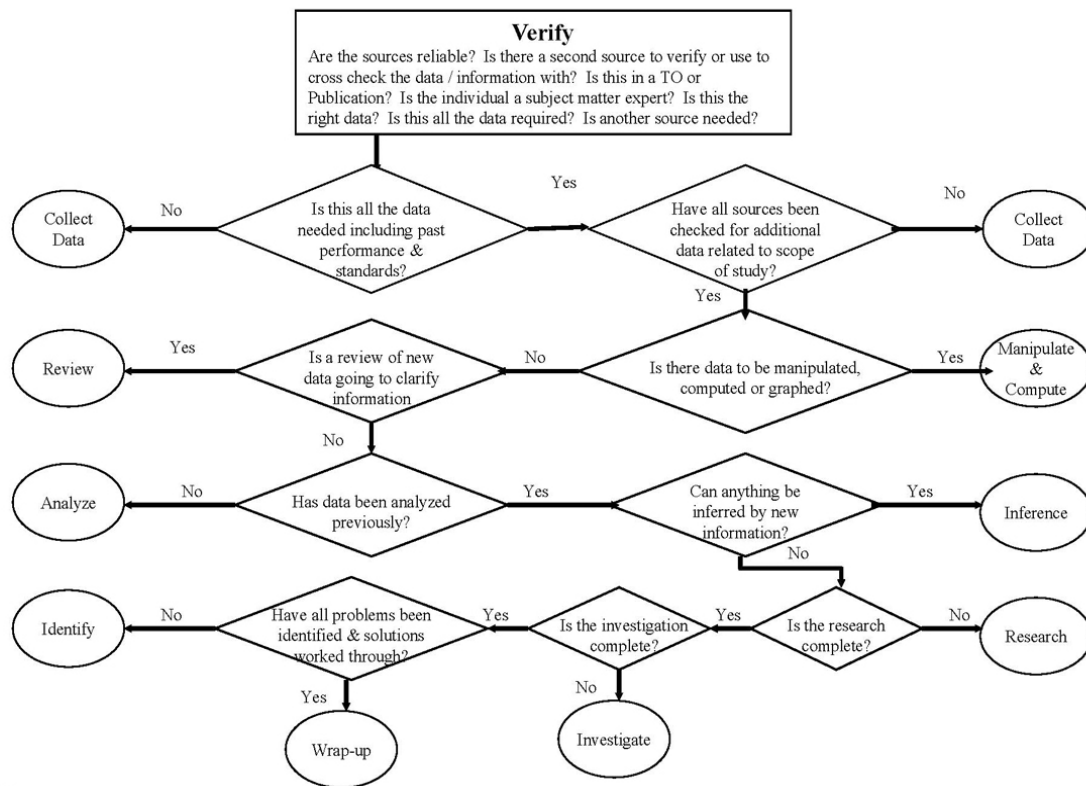
**Foldout 10. The Analysis Wheel.**

## The 12-Step Analysis Process Flow Chart



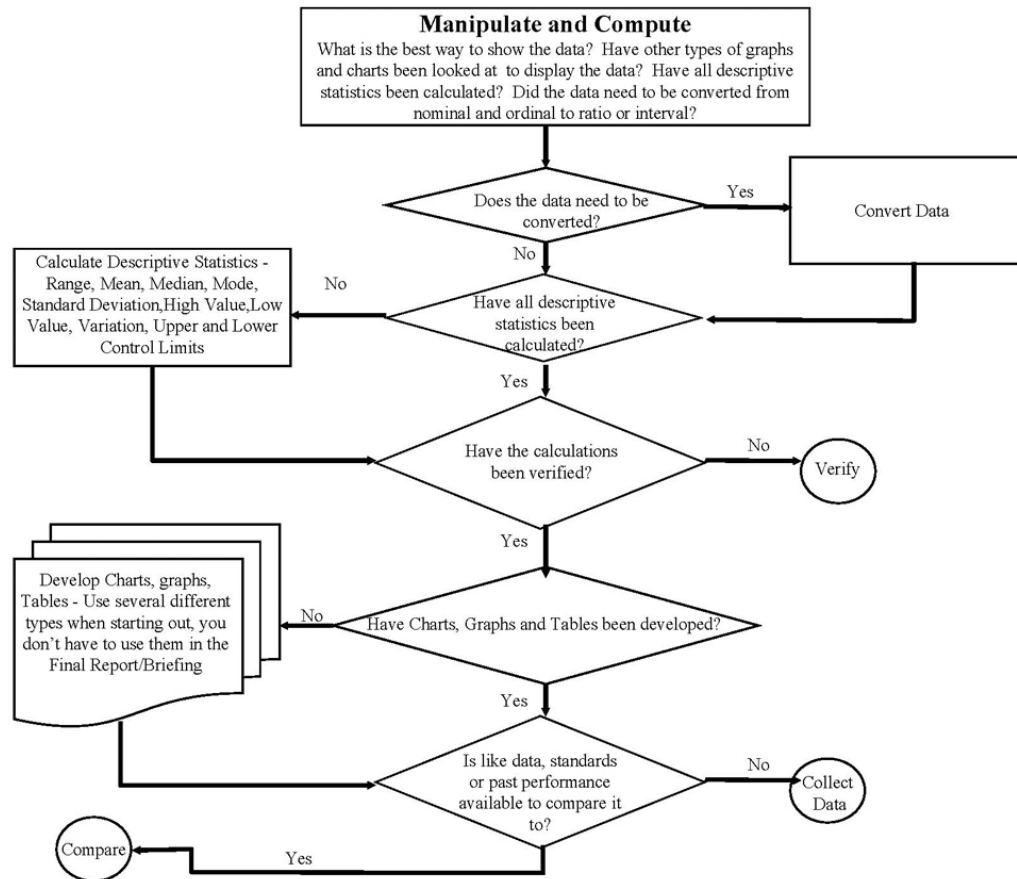
**Foldout 11. The 12–Step Analysis Proces Flow Chart.**



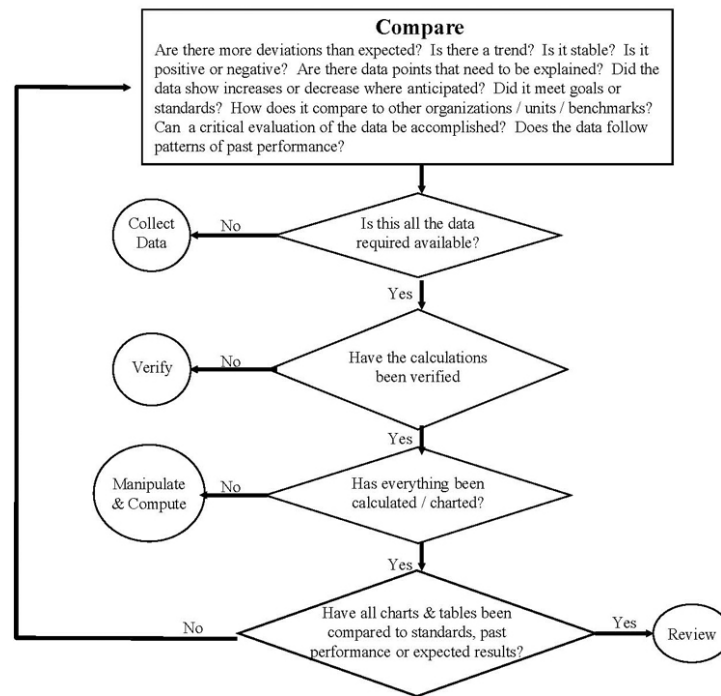


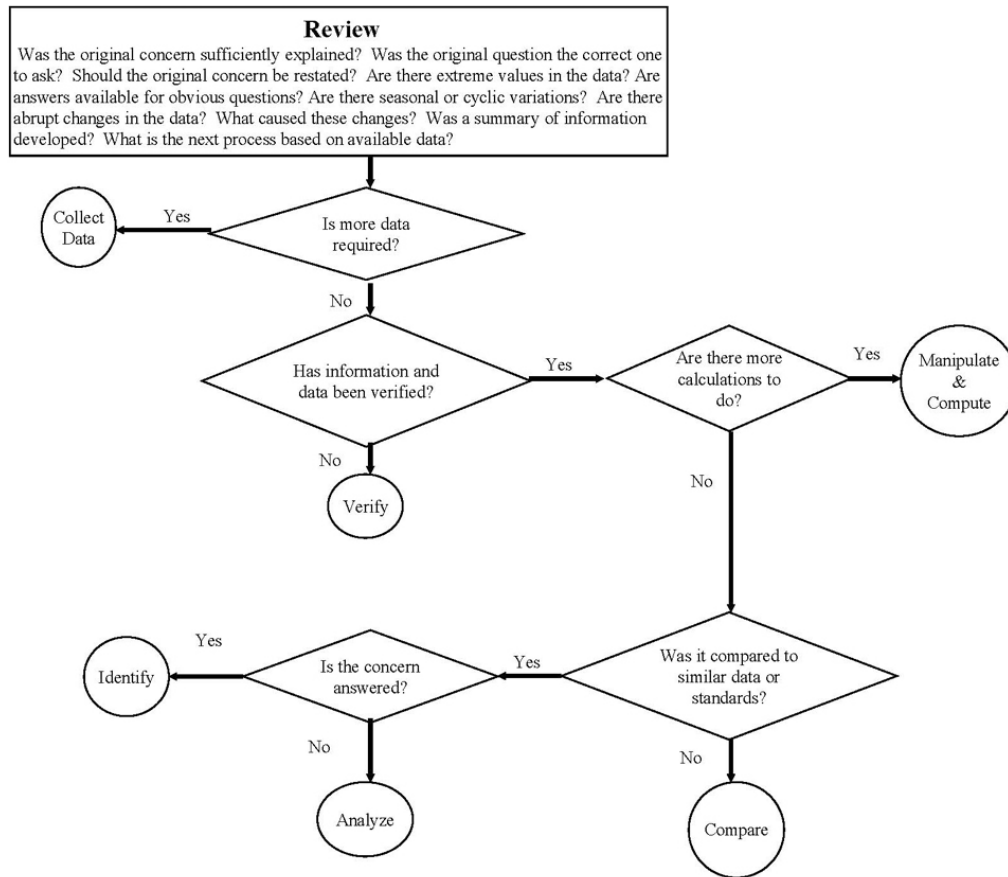
2R071V1U5003

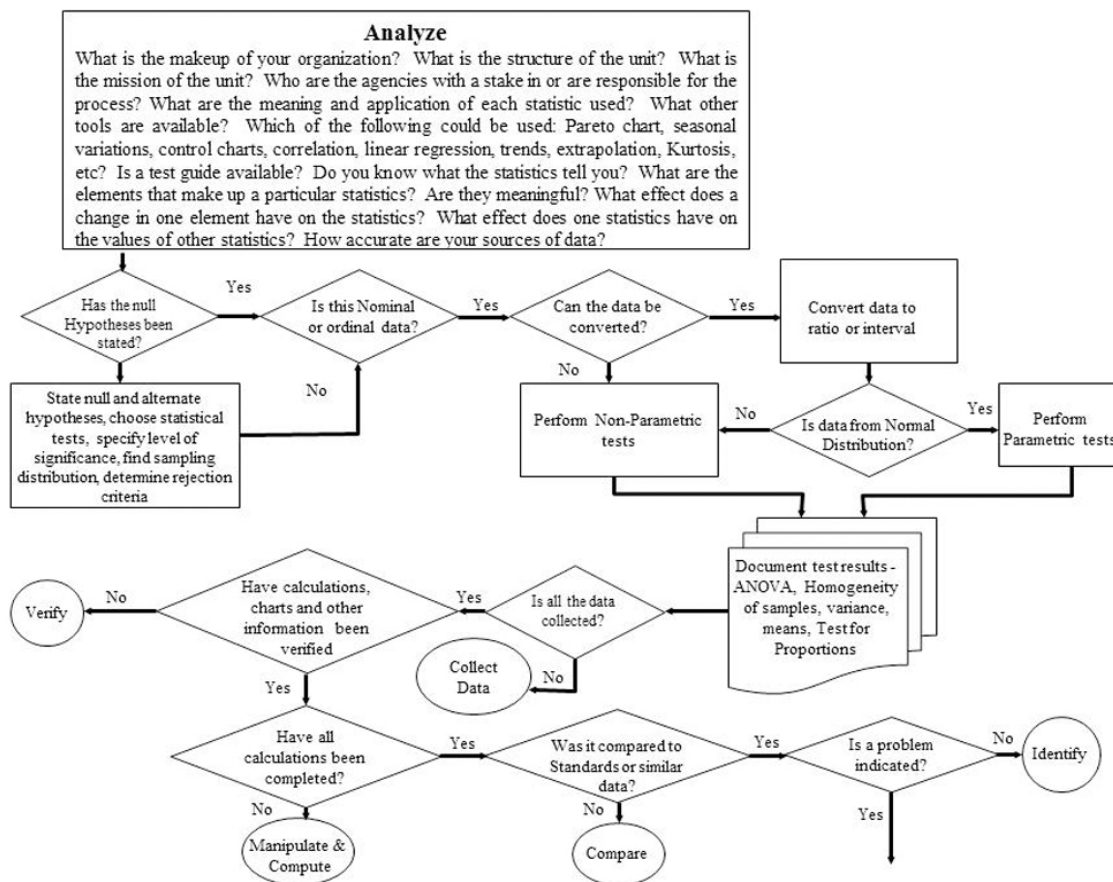
**Foldout 12. Verify.**



**Foldout 13. Manipulate and Compute.**

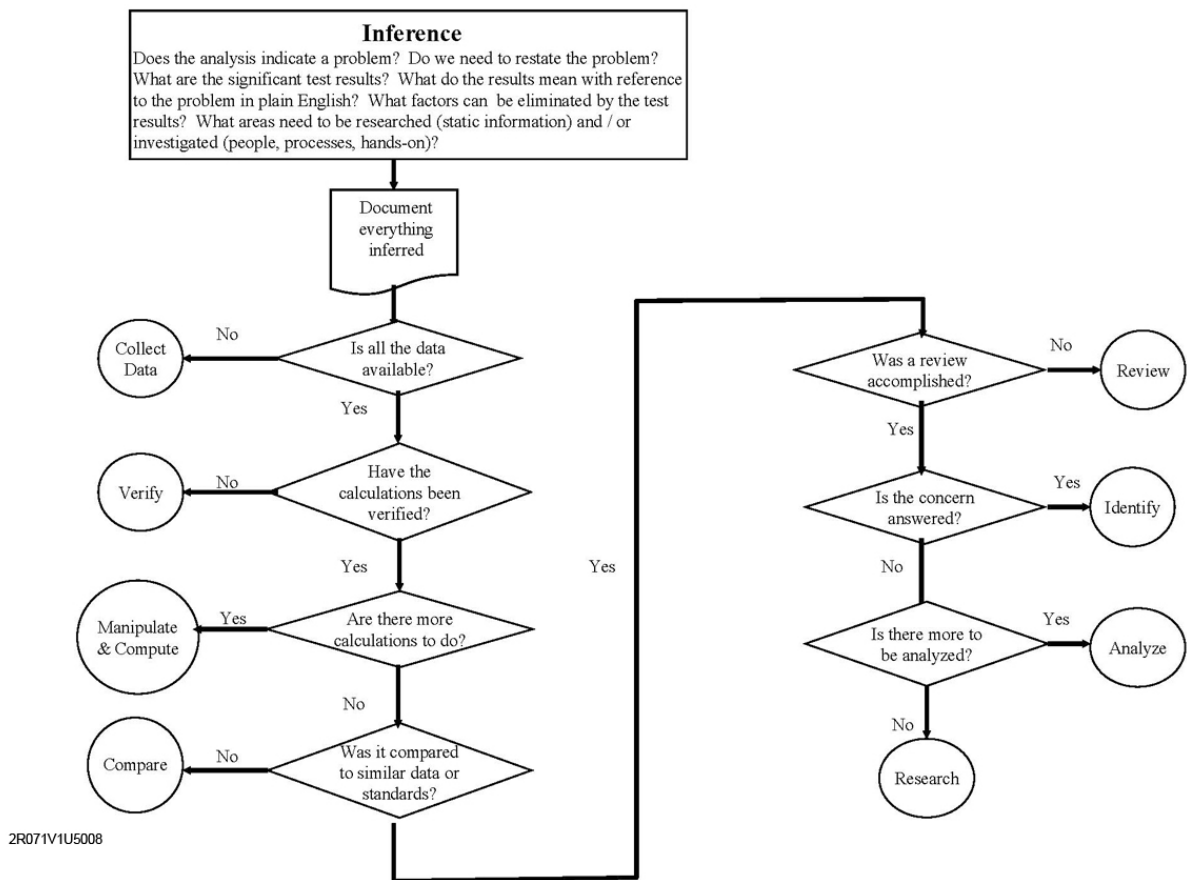
**Foldout 14. Compare.**

**Foldout 15. Review.**

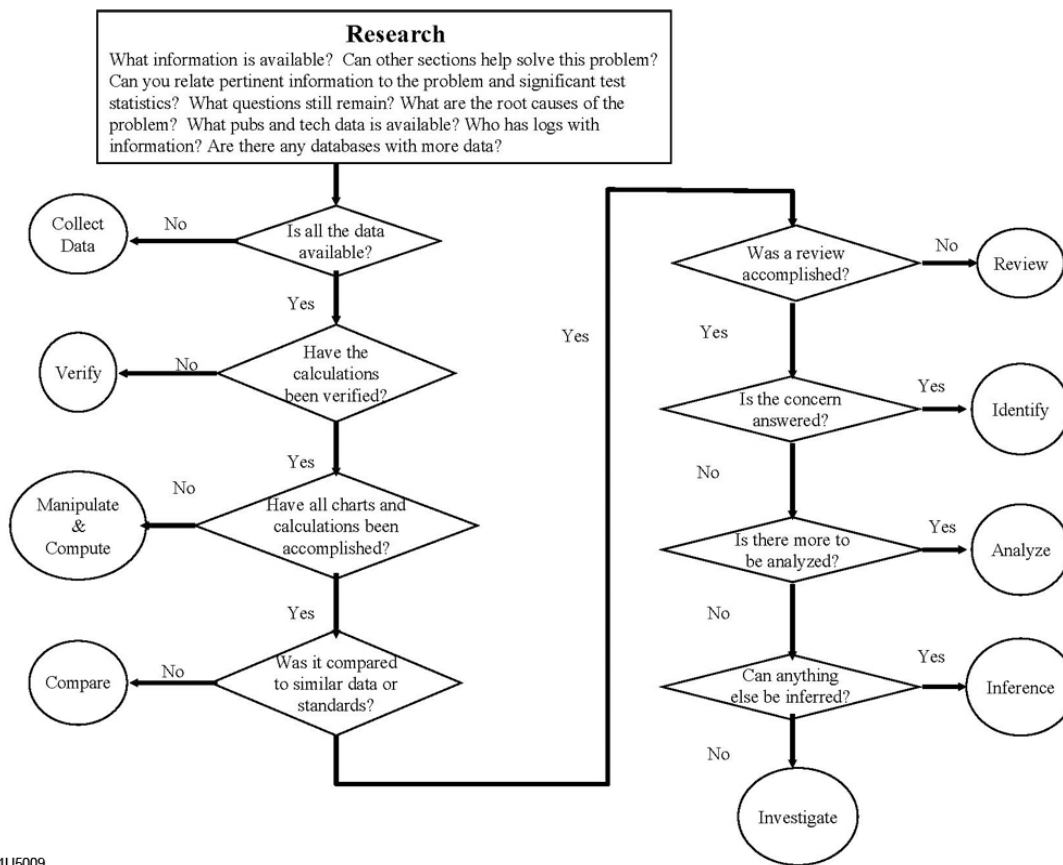


Foldout 16. Analyze.



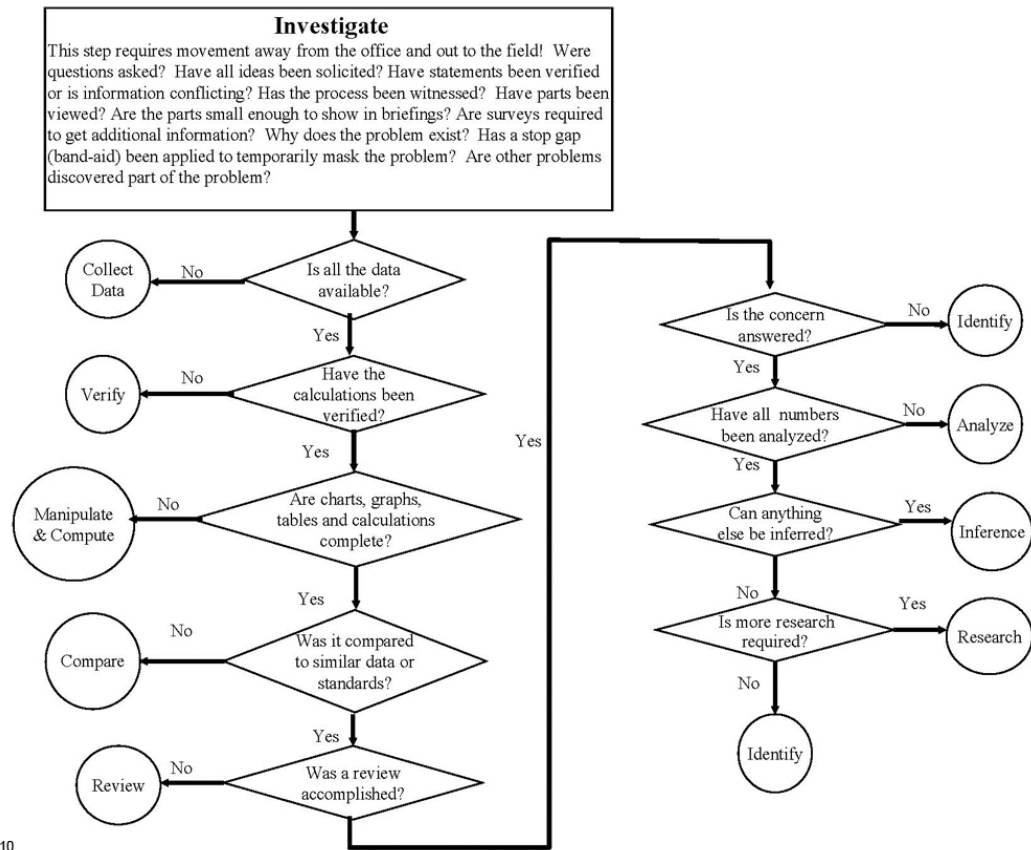


Foldout 17. Inference.

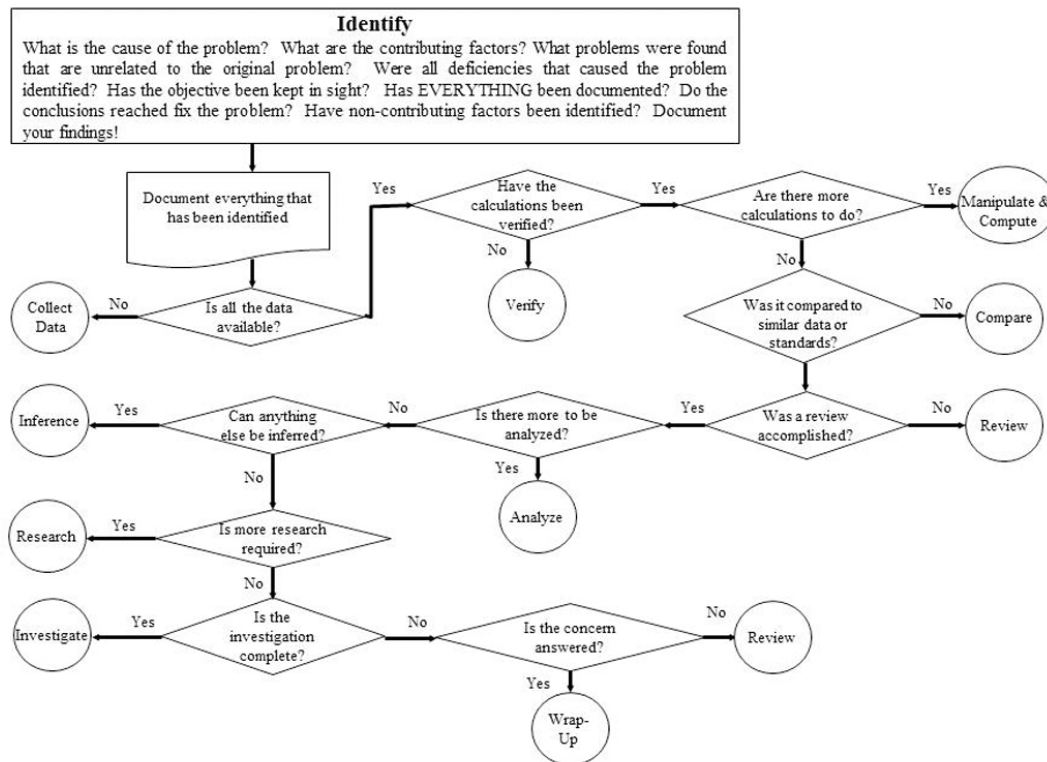


2R071V1U5009

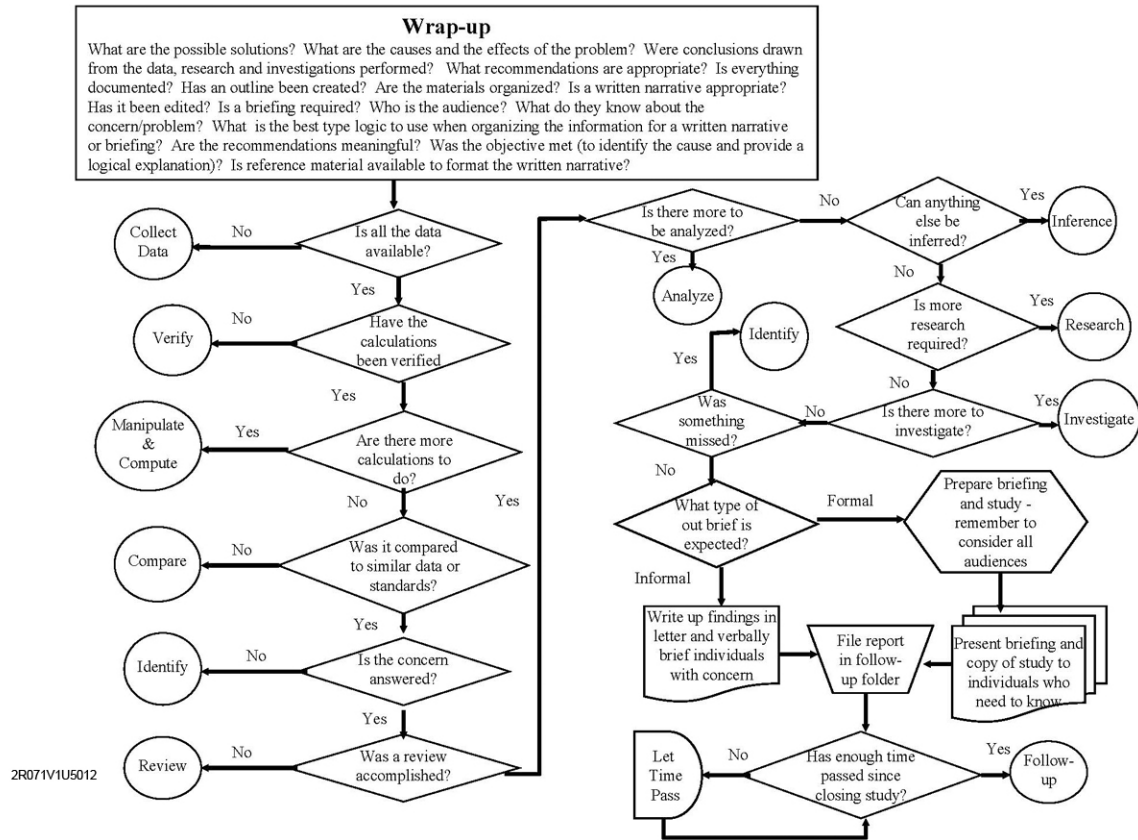
**Foldout 18. Research.**



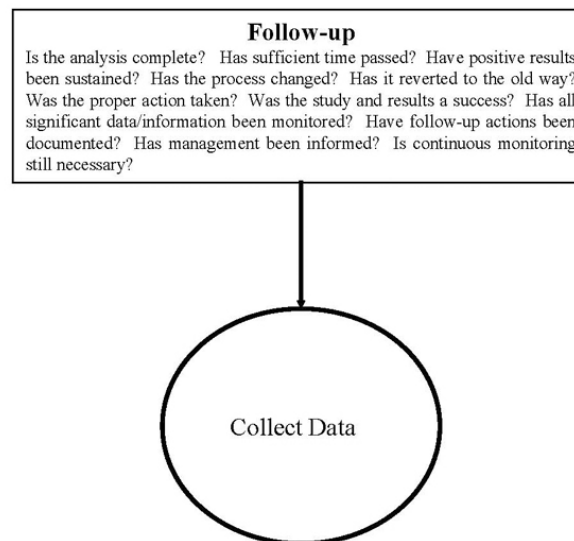
Foldout 19. Investigate.



Foldout 20. Identify.



Foldout 21. Wrap-up.



Foldout 22. Follow-up



**AFSC 2R071**  
**2R071 01 S01 1801**  
**Edit Code 07**