The DISCRIM Procedure

Total Sample Size	36	**DF Total**	35
Variables	4	**DF Within Classes**	33
Classes	3	**DF Between Classes**	2

Number of Observations Read	36
Number of Observations Used	36

Class Level Information

METHOD	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	12	12.0000	0.333333	0.333333
2	_2	12	12.0000	0.333333	0.333333
3	_3	12	12.0000	0.333333	0.333333

Pooled Covariance Matrix Information

Covariance Matrix Rank	Natural Log of the Determinant of the Covariance Matrix
4	-6.80435

The DISCRIM Procedure

Generalized Squared Distance to METHOD			
From METHOD	1	2	3
1	0	2.07203	15.48098
2	2.07203	0	7.84709
3	15.48098	7.84709	0

Linear Discriminant Function for METHOD			
Variable	1	2	3
Constant	-72.76878	-65.18045	-68.56609
AROMA	0.80819	2.12237	0.67639
FLAVOR	15.15136	10.11279	2.79198
TEXTURE	-1.03021	0.23934	6.54334
MOISTURE	10.01533	11.06496	13.09289

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
1	1	1		0.5903	0.3524	0.0573
2	1	1		0.9903	0.0097	0.0000
3	1	2	*	0.2941	0.6826	0.0233
4	1	2	*	0.4563	0.5422	0.0015
5	1	1		0.8006	0.1994	0.0001
6	1	1		0.7512	0.2473	0.0015
7	1	1		0.7495	0.2503	0.0002
8	1	1		0.8830	0.1170	0.0000
9	1	1		0.6593	0.3407	0.0000
10	1	2	*	0.1527	0.8278	0.0195
11	1	1		0.9007	0.0993	0.0000
12	1	1		0.8189	0.1804	0.0007
13	2	2		0.2566	0.7017	0.0417
14	2	2		0.3971	0.6028	0.0001
15	2	2		0.0200	0.5940	0.3860
16	2	1	*	0.6590	0.3372	0.0038
17	2	2		0.3266	0.6722	0.0012
18	2	2		0.2125	0.7762	0.0113
19	2	3	*	0.0152	0.4520	0.5328
20	2	3	*	0.0125	0.2363	0.7512
21	2	1	*	0.8652	0.1348	0.0000
22	2	1	*	0.5911	0.4064	0.0025
23	2	2		0.3072	0.6867	0.0061
24	2	2		0.1980	0.7782	0.0238
25	3	3		0.0000	0.0003	0.9997
26	3	3		0.0010	0.0472	0.9518
27	3	3		0.0050	0.0709	0.9241
28	3	3		0.0006	0.0259	0.9735
29	3	3		0.0017	0.0450	0.9533
30	3	2	*	0.0437	0.7547	0.2016
31	3	3		0.0019	0.0311	0.9670
32	3	3		0.0006	0.0296	0.9698
33	3	3		0.0002	0.0034	0.9964

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using Linear Discriminant Function

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
34	3	3		0.0001	0.0064	0.9935
35	3	3		0.0000	0.0133	0.9867
36	3	3		0.0000	0.0026	0.9974

*** Misclassified observation**

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Resubstitution Summary using Linear Discriminant Function

Number of Observations and Percent Classified into METHOD				
From METHOD	**1**	**2**	**3**	**Total**
1	9 75.00	3 25.00	0 0.00	12 100.00
2	3 25.00	7 58.33	2 16.67	12 100.00
3	0 0.00	1 8.33	11 91.67	12 100.00
Total	12 33.33	11 30.56	13 36.11	36 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.2500	0.4167	0.0833	0.2500
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Cross-validation Summary using Linear Discriminant Function

Number of Observations and Percent Classified into METHOD				
From METHOD	**1**	**2**	**3**	**Total**
1	7 58.33	5 41.67	0 0.00	12 100.00
2	4 33.33	5 41.67	3 25.00	12 100.00
3	0 0.00	1 8.33	11 91.67	12 100.00
Total	11 30.56	11 30.56	14 38.89	36 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.4167	0.5833	0.0833	0.3611
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure

Total Sample Size	36	**DF Total**	35
Variables	4	**DF Within Classes**	33
Classes	3	**DF Between Classes**	2

Number of Observations Read	36
Number of Observations Used	36

Class Level Information

METHOD	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	12	12.0000	0.333333	0.333333
2	_2	12	12.0000	0.333333	0.333333
3	_3	12	12.0000	0.333333	0.333333

Within Covariance Matrix Information

METHOD	Covariance Matrix Rank	Natural Log of the Determinant of the Covariance Matrix
1	4	-6.39456
2	4	-6.75363
3	4	-8.82963

The DISCRIM Procedure

Generalized Squared Distance to METHOD			
From METHOD	1	2	3
1	-6.39456	-4.91865	35.34921
2	-4.25472	-6.75363	10.29404
3	11.99794	0.76429	-8.82963

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
1	1	1		0.9479	0.0520	0.0002
2	1	1		0.9996	0.0004	0.0000
3	1	1		0.6291	0.3585	0.0124
4	1	2	*	0.4742	0.5258	0.0000
5	1	1		0.6577	0.3423	0.0000
6	1	1		0.8401	0.1599	0.0000
7	1	1		0.5221	0.4779	0.0000
8	1	1		0.8927	0.1073	0.0000
9	1	1		0.8116	0.1884	0.0000
10	1	2	*	0.2056	0.7918	0.0026
11	1	1		0.6219	0.3781	0.0000
12	1	1		0.8917	0.1083	0.0000
13	2	2		0.1980	0.8004	0.0016
14	2	1	*	0.5660	0.4340	0.0000
15	2	2		0.0002	0.9974	0.0024
16	2	2		0.2428	0.7572	0.0000
17	2	2		0.4648	0.5352	0.0000
18	2	2		0.2687	0.7296	0.0018
19	2	3	*	0.0061	0.3160	0.6779
20	2	3	*	0.0051	0.1077	0.8872
21	2	1	*	0.6485	0.3515	0.0000
22	2	2		0.4837	0.5163	0.0000
23	2	2		0.2636	0.7362	0.0003
24	2	2		0.1804	0.8196	0.0000
25	3	3		0.0000	0.0001	0.9999
26	3	3		0.0004	0.0237	0.9758
27	3	3		0.0008	0.0248	0.9744
28	3	3		0.0007	0.0168	0.9825
29	3	3		0.0000	0.1027	0.8972
30	3	2	*	0.1234	0.4715	0.4051
31	3	3		0.0003	0.0052	0.9945
32	3	3		0.0000	0.0348	0.9652
33	3	3		0.0000	0.0001	0.9998

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using Quadratic Discriminant Function

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
34	3	3		0.0000	0.0102	0.9898
35	3	3		0.0000	0.0712	0.9288
36	3	3		0.0000	0.0067	0.9933

*** Misclassified observation**

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Resubstitution Summary using Quadratic Discriminant Function

Number of Observations and Percent Classified into METHOD				
From METHOD	**1**	**2**	**3**	**Total**
1	10 83.33	2 16.67	0 0.00	12 100.00
2	2 16.67	8 66.67	2 16.67	12 100.00
3	0 0.00	1 8.33	11 91.67	12 100.00
Total	12 33.33	11 30.56	13 36.11	36 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.1667	0.3333	0.0833	0.1944
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Cross-validation Summary using Quadratic Discriminant Function

Number of Observations and Percent Classified into METHOD				
From METHOD	**1**	**2**	**3**	**Total**
1	4 33.33	8 66.67	0 0.00	12 100.00
2	6 50.00	4 33.33	2 16.67	12 100.00
3	0 0.00	3 25.00	9 75.00	12 100.00
Total	10 27.78	15 41.67	11 30.56	36 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.6667	0.6667	0.2500	0.5278
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure

Total Sample Size	36	**DF Total**	35
Variables	4	**DF Within Classes**	33
Classes	3	**DF Between Classes**	2

Number of Observations Read	36
Number of Observations Used	36

Class Level Information

METHOD	Variable Name	Frequency	Weight	Proportion	Prior Probability
1	_1	12	12.0000	0.333333	0.333333
2	_2	12	12.0000	0.333333	0.333333
3	_3	12	12.0000	0.333333	0.333333

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using 5 Nearest Neighbors

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
1	1	1		0.6000	0.4000	0.0000
2	1	1		0.8000	0.2000	0.0000
3	1	Other	T	0.4000	0.4000	0.2000
4	1	1		0.8000	0.2000	0.0000
5	1	1		0.6000	0.4000	0.0000
6	1	1		0.8000	0.2000	0.0000
7	1	2	*	0.4000	0.6000	0.0000
8	1	1		0.6000	0.4000	0.0000
9	1	1		0.6000	0.4000	0.0000
10	1	2	*	0.2000	0.6000	0.2000
11	1	1		0.6000	0.4000	0.0000
12	1	1		0.6000	0.4000	0.0000
13	2	2		0.4000	0.6000	0.0000
14	2	2		0.4000	0.6000	0.0000
15	2	3	*	0.0000	0.4000	0.6000
16	2	1	*	0.6000	0.4000	0.0000
17	2	2		0.4000	0.6000	0.0000
18	2	2		0.2000	0.6000	0.2000
19	2	Other	T	0.2000	0.4000	0.4000
20	2	3	*	0.0000	0.4000	0.6000
21	2	1	*	0.6000	0.4000	0.0000
22	2	2		0.2000	0.8000	0.0000
23	2	2		0.4000	0.6000	0.0000
24	2	2		0.4000	0.6000	0.0000
25	3	3		0.0000	0.0000	1.0000
26	3	3		0.0000	0.4000	0.6000
27	3	3		0.0000	0.2000	0.8000
28	3	3		0.0000	0.2000	0.8000
29	3	3		0.0000	0.2000	0.8000
30	3	2	*	0.2000	0.6000	0.2000
31	3	3		0.0000	0.2000	0.8000
32	3	3		0.0000	0.0000	1.0000
33	3	3		0.0000	0.0000	1.0000

The DISCRIM Procedure
Classification Results for Calibration Data: WORK.FISH
Resubstitution Results using 5 Nearest Neighbors

Posterior Probability of Membership in METHOD						
Obs	From METHOD	Classified into METHOD		1	2	3
34	3	3		0.0000	0.0000	1.0000
35	3	3		0.0000	0.2000	0.8000
36	3	3		0.0000	0.0000	1.0000

*** Misclassified observation**
T Tie for largest probability

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Resubstitution Summary using 5 Nearest Neighbors

Number of Observations and Percent Classified into METHOD					
From METHOD	**1**	**2**	**3**	**Other**	**Total**
1	9 75.00	2 16.67	0 0.00	1 8.33	12 100.00
2	2 16.67	7 58.33	2 16.67	1 8.33	12 100.00
3	0 0.00	1 8.33	11 91.67	0 0.00	12 100.00
Total	11 30.56	10 27.78	13 36.11	2 5.56	36 100.00
Priors	0.33333	0.33333	0.33333		

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.2500	0.4167	0.0833	0.2500
Priors	0.3333	0.3333	0.3333	

The DISCRIM Procedure
Classification Summary for Calibration Data: WORK.FISH
Cross-validation Summary using 5 Nearest Neighbors

Number of Observations and Percent Classified into METHOD				
From METHOD	**1**	**2**	**3**	**Total**
1	7 58.33	5 41.67	0 0.00	12 100.00
2	5 41.67	4 33.33	3 25.00	12 100.00
3	0 0.00	1 8.33	11 91.67	12 100.00
Total	12 33.33	10 27.78	14 38.89	36 100.00
Priors	0.33333	0.33333	0.33333	

Error Count Estimates for METHOD				
	1	**2**	**3**	**Total**
Rate	0.4167	0.6667	0.0833	0.3889
Priors	0.3333	0.3333	0.3333	