

## EXPORT COMPETITIVENESS OF VARIOUS CROPS

### Appendix I(a)

#### Measures of Competitiveness of Rice

Year	Measures of Competitiveness			
	NPC	EPC	ESC	DRC
<b>Andhra Pradesh</b>				
1990-91	0.6386	0.6340	0.6679	0.3809
1994-95	1.1253	1.1413	1.2209	0.5591
1995-96	1.0002	1.0099	1.0958	0.5296
1996-97	0.8881	0.8914	0.9671	0.4812
1998-99	1.1980	1.5556	1.6892	0.7230
1999-00	0.9835	1.3272	1.4545	0.7230
<b>Assam</b>				
1991-92	0.5934	0.6009	0.6286	0.3660
1994-95	0.9591	0.9605	1.0228	0.5661
1995-96	1.0384	1.0496	1.1488	0.7020
1996-97	0.8924	0.8946	0.9651	0.5240
1998-99	1.0449	1.3873	1.5001	0.7422
1999-00	0.9769	1.2824	1.3962	0.7477
<b>Haryana</b>				
1990-91	0.7909	0.7770	0.8181	0.4080
1994-95	1.1341	1.1627	1.2456	0.6399
1996-97	1.0531	1.0618	1.1513	0.5232
1998-99	1.0607	1.3215	1.4400	0.7506
1999-00	0.9621	1.2410	1.3630	0.7277
<b>Madhya Pradesh</b>				
1990-91	0.6825	0.7082	0.7445	0.4503
1994-95	0.9505	0.9619	1.0284	0.5573
1995-96	0.8639	0.8719	0.9450	0.4922

1996-97	0.7833	0.7954	0.8614	0.4817
1998-99	0.8574	1.0534	1.1481	0.7905
1999-00	0.8616	1.0959	1.1995	0.7431
<b>Orissa</b>				
1990-91	0.6674	0.6798	0.7130	0.2819
1994-95	0.8568	0.8703	0.9288	0.4604
1995-96	0.8740	0.8861	0.9584	0.4727
1996-97	0.8009	0.8154	0.8816	0.4788
<b>Punjab</b>				
1990-91	0.6431	0.6170	0.6505	0.3101
1993-94	0.7355	0.7240	0.7686	0.3266
1994-95	1.1036	1.0196	1.0910	0.4491
1995-96	1.0988	1.1085	1.2015	0.4811
1996-97	0.9542	0.9508	1.0315	0.4125
1998-99	1.0773	1.4039	1.5278	0.6066
1999-00	0.9747	1.3140	1.4393	0.5464
<b>Uttar Pradesh</b>				
1990-91	0.6754	0.6771	0.7123	0.4146
1996-97	0.8122	0.8159	0.8839	0.4126
1998-99	0.9607	1.2313	1.3382	0.6119
1999-00	0.9090	1.2116	1.3252	0.6322
<b>West Bengal</b>				
1991-92	0.7154	0.7405	0.7756	0.4428
1994-95	1.0614	1.0630	1.1341	0.5637
1995-96	1.1187	1.1166	1.2070	0.5954
1996-97	0.7530	0.7699	0.8328	0.4809
1998-99	1.0076	1.2733	1.3817	0.7754
1999-00	0.7990	1.0603	1.1602	0.7288

**Appendix I(b)**  
**Measures of Competitiveness of Wheat**

Year	Measures of Competitiveness			
	NPC	EPC	ESC	DRC
<b>Haryana</b>				
1990-91	1.324	1.334	1.637	0.898
1994-95	0.873	0.885	1.084	0.606
1995-96	0.707	0.714	0.878	0.499
1996-97	0.931	0.943	1.150	0.621
1997-98	0.654	0.659	0.808	0.466
1998-99	1.0478	1.3718	1.5130	0.6681
1999-00	1.2683	1.4964	1.6541	0.7918
<b>Madhya Pradesh</b>				
1990-91	1.727	1.626	1.977	1.292
1994-95	1.057	2.807	3.400	1.861
1995-96	0.860	2.360	2.848	1.418
1996-97	1.110	3.034	3.670	1.789
1997-98	0.719	2.014	2.443	1.256
1998-99	0.9772	1.2877	1.4278	0.8905
1999-00	1.5090	1.7458	1.9276	1.1318
<b>Punjab</b>				
1990-91	1.776	1.914	2.336	1.125
1994-95	1.095	1.123	1.370	0.691
1995-96	0.891	0.899	1.104	0.584
1996-97	1.148	1.173	1.424	0.662
1997-98	0.746	0.747	0.916	0.471
1998-99	1.0400	1.3877	1.5324	0.6183
1999-00	1.2364	1.4738	1.6297	0.6640

<b>Uttar Pradesh</b>				
1990-91	1.4581	1.4703	1.5546	1.0647
1995-96	0.7400	0.7529	0.8257	0.5372
1996-97	0.9378	0.9539	1.0418	0.5924
1998-99	1.0614	1.4068	1.5543	0.8163
1999-00	1.3008	1.5319	1.6918	0.9178

### Appendix I(c)

#### Measures of Competitiveness of Jawar (Sorghum)

Year	Measures of Efficiency under EX Hyp			
	NPC	EPC	ESC	DRC
<b>Andhra Pradesh</b>				
1990-91	na	5.9120	6.2255	7.6981
1994-95	2.1696	2.1137	2.2631	1.7583
1995-96	1.0636	1.0882	1.1821	0.9681
1996-97	0.9300	0.9557	1.0399	0.8758
1999-00	0.8143	0.8297	0.9064	0.7655
<b>Karnataka</b>				
1991-92	0.5776	0.5779	0.6037	0.1442
1998-99	1.2230	1.2756	1.3909	0.9178
1999-00	0.8962	0.9110	1.0041	0.7541
<b>Maharashtra</b>				
1994-95	2.2114	1.7923	1.9167	1.2344
1995-96	0.8849	0.9218	1.0010	0.6585
<b>Madhya Pradesh</b>				
1991-92	1.1146	1.1045	1.1575	0.9139
1994-95	2.2153	2.0306	2.1683	1.3415

1995-96	0.9742	0.9885	1.0727	0.7503
1996-97	0.8684	0.8826	0.9594	0.8135
1998-99	0.8452	0.8694	0.9438	0.6323
1999-00	0.6514	0.6693	0.7310	0.6304
<b>Tamil Nadu</b>				
1994-95	1.7977	1.4402	1.5393	1.2860
1995-96	0.8686	0.8989	0.9724	0.7052
1996-97	0.7978	0.8207	0.8943	0.7433

### Appendix I(d)

#### Measures of Competitiveness of Maize

Year	Measures of Efficiency under EX Hyp			
	NPC	EPC	ESC	DRC
<b>Andhra Pradesh</b>				
1995-96	0.7972	0.8016	0.8791	0.8420
1996-97	0.7066	0.6974	0.7659	0.7785
<b>Madhya Pradesh</b>				
1992-93	0.7608	0.7934	0.8399	0.5600
1994-95	1.2667	1.2541	1.3392	0.8861
1995-96	0.9931	1.0027	1.0851	0.6831
1996-97	0.9654	0.9795	1.0624	1.0260
1998-99	0.7771	0.7945	0.8686	0.8282
1999-00	0.7554	0.7715	0.8495	0.7646
<b>Rajasthan</b>				
1995-96	0.8664	0.8990	0.9737	0.8905
1996-97	0.9012	0.9364	1.0164	0.9548
1998-99	0.8007	0.8642	0.9466	1.0913
1999-00	0.6503	0.7235	0.7970	1.0448

<b>Uttar Pradesh</b>				
1992-93	0.6875	0.7032	0.7454	0.6967
1996-97	0.7616	0.7613	0.8299	0.8471
1998-99	0.7627	0.7648	0.8379	0.8579
1999-00	0.6477	0.6377	0.7011	0.6536

### Appendix I(e)

#### Measures of Competitiveness of Gram

Year	Measures of Competitiveness (Efficiency M)			
	NPC	EPC	ESC	DRC
<b>Madhya Pradesh</b>				
1991-92	0.5207	0.5327	0.5604	0.3363
1994-95	0.6132	0.6046	0.6507	0.3546
1995-96	0.4829	0.4580	0.5056	0.4126
1996-97	0.4829	0.4580	0.5056	0.4126
1997-98	0.5174	0.5049	0.5529	0.3375
1998-99	0.5985	0.5785	0.6338	0.3827
<b>Rajasthan</b>				
1994-95	0.6384	0.6466	0.6920	0.3275
1995-96	0.4358	0.4626	0.4925	0.3284
1996-97	0.8990	0.4915	0.5368	0.3610
1997-98	0.6721	0.6752	0.7334	0.3866
1999-00	0.6644	0.6555	0.7256	0.4843
2000-01	0.5409	0.5224	0.5813	0.4318
<b>Uttar Pradesh</b>				
1990-91	0.6638	0.6634	0.6992	0.3740
1995-96	0.4533	0.4520	0.4933	0.3727
2000-01	0.6181	0.6070	0.6679	0.3729

## Appendix I(f)

### Measures of Competitiveness of Tur

Year	Measures of Efficiency under EX Hyp			
	NPC	EPC	ESC	DRC
<b>Gujarat</b>				
1992-93	0.4518	0.4588	0.4872	0.3707
1994-95	0.5477	0.5569	0.5967	0.5365
1995-96	0.7438	0.7404	0.8036	0.4865
1996-97	0.6315	0.6251	0.6778	0.3601
1998-99	0.6472	0.6373	0.6934	0.4002
1999-00	0.5498	0.5392	0.5925	0.3651
<b>Madhya Pradesh</b>				
1990-91	0.5174	0.5247	0.5511	0.3802
1994-95	0.8010	0.8070	0.8595	0.4675
1995-96	0.7166	0.7196	0.7775	0.3800
1996-97	0.7474	0.7471	0.8079	0.3543
1998-99	0.7079	0.7071	0.7668	0.3781
1999-00	0.7163	0.7109	0.7779	0.4369
<b>Uttar Pradesh</b>				
1990-91	0.5027	0.5220	0.5477	0.2852
1991-92	0.5043	0.5328	0.5572	0.2436
1992-93	0.4781	0.5061	0.5345	0.2770
1996-97	0.4844	0.5013	0.5422	0.2773
1998-99	0.6137	0.6284	0.6807	0.3272
1999-00	0.4962	0.5127	0.5596	0.3464

**Appendix I(g)**

**Measures of Competitiveness of Rapeseed & Mustard**

Year	Measures of Efficiency under EX Hyp			
	NPC	EPC	ESC	DRC
<b>Gujarat</b>				
1994-95	1.5527	1.6396	1.9689	1.1537
1996-97	0.8813	0.8744	1.0560	0.6166
1999-00	0.6275	0.5879	0.6493	0.4660
2000-01	0.3879	0.3463	0.3827	0.3060
<b>Haryana</b>				
1990-91	1.2595	1.2989	1.5652	0.8222
1994-95	1.7178	1.8671	2.2537	1.1604
1995-96				
1996-97	0.9260	0.9207	1.1109	0.5950
1997-98	0.8246	0.7755	0.9799	0.9624
1999-00	0.7356	0.7197	0.7889	0.4243
2000-01	0.4470	0.4205	0.4618	0.2974
<b>Madhya Pradesh</b>				
1994-95	1.5735	1.6922	2.0505	1.3133
1996-97	0.8916	0.8721	1.0710	0.7533
1997-98	0.7996	0.7591	0.9450	0.8018
2000-01	0.4460	0.3891	0.4325	0.2493
<b>Rajasthan</b>				
1992-93	1.2294	1.2459	1.4962	0.8982
1994-95	1.0190	1.0199	1.2270	0.6524
1995-96	273.1527	-7.4837	-9.0709	-5.4487
1996-97	0.6277	0.5991	0.7251	0.4498
1999-00	0.7153	0.6847	0.7532	0.4245



2000-01	0.4256	0.3877	0.4272	0.3004
<b>Uttar Pradesh</b>				
1996-97	1.0662	0.8890	1.0794	0.6738
1999-00	0.7356	0.7220	0.7919	0.4343
2000-01	0.4470	0.4142	0.4567	0.3253

### Appendix I(h)

#### Measures of Competitiveness of Sugar/Sugarcane

Year	Measures of Efficiency under EX Hyp			
	NPC	EPC	ESC	DRC
<b>Andhra Pradesh</b>				
1990-91	1.027	1.028	1.219	0.362
1994-95	1.329	1.331	1.578	0.471
1995-96	0.973	0.973	1.154	0.347
1998-99	1.1910	1.2242	1.3448	0.8098
1999-00	1.2067	1.2422	1.3549	0.8208
<b>Maharashtra</b>				
1990-91	1.050	1.064	1.271	0.535
1994-95	1.268	1.271	1.508	0.450
1995-96	1.089	1.091	1.294	0.388
1996-97	1.142	1.143	1.355	0.406
1997-98	1.235	1.237	1.467	0.439
1998-99	1.1910	1.2336	1.3000	0.7078
1999-00	1.2067	1.2548	1.3126	0.7637
<b>Uttar Pradesh</b>				
1990-91	1.110	1.110	1.163	0.280
1993-94	1.556	1.556	1.630	0.393
1994-95	1.209	1.210	1.267	0.309

1995-96	1.031	1.032	1.081	0.263
1996-97	1.048	1.048	1.098	0.266
1997-98	1.130	1.131	1.185	0.287
1998-99	2.2282	2.3244	2.3719	0.8634
1999-00	2.2383	2.1540	2.1815	0.8209
<b>Tamil Nadu</b>				
1994-95	1.1413	1.1428	1.3548	0.4033
1998-99	1.1189	1.1408	1.1813	0.6611
1999-00	1.1456	1.1778	1.2127	0.7376

### Appendix I(i)

#### Measures of Competitiveness of Cotton

	NPC	EPC	ESC	DRC
<b>Andhra Pradesh</b>				
1994-95	2.413	1.054	1.263	0.508
1996-97	0.817	1.057	1.274	0.598
<b>Gujarat</b>				
1992-93	0.781	1.058	1.271	0.670
1993-94	1.757	1.053	1.259	0.537
1996-97	0.737	1.050	1.262	0.580
1998-99	1.0415	1.0464	1.1358	0.4515
<b>Maharashtra</b>				
1994-95	3.171	1.055	1.259	0.490
1995-96	0.693	1.006	1.211	0.603
1996-97	0.920	1.006	1.203	0.549
<b>Punjab</b>				
1990-91	0.865	0.992	1.202	0.574
1991-92	0.766	1.079	1.295	0.534

1992-93	0.657	1.085	1.311	0.609
1993-94	1.418	1.083	1.300	0.557
1994-95	1.461	1.088	1.316	0.616
1995-96	0.454	1.086	1.319	0.716
1996-97	0.747	1.078	1.300	0.618
1998-99	1.0520	1.0169	1.1204	0.7040
1999-00	0.0031			
<b>Rajasthan</b>				
1994-95	1.461	1.093	1.307	0.567
1995-96	0.454	1.093	1.306	0.533
1996-97	0.747	1.083	1.296	0.510
1999-00	0.0029			

Source: Bhalla (Globalisation and Indian Agriculture, 2004).