

**AN ESTIMATED 2002 TEXAS-OKLAHOMA PRE-SEASON PRICE SCHEDULE
BASED ON MARKET HISTORY**

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Abstract

The Daily Price Estimation System (DPES) is a computerized, econometric price analysis system that is maintained and operated by Texas Tech University's Cotton Economics Research Institute, Department of Agricultural and Applied Economics. The DPES uses sales of cotton from electronic cotton markets to estimate and report prices and quality premiums and discounts for various quality combinations in West Texas and East Texas/Oklahoma producer markets. This system uses a set of computer programs and established statistical techniques to estimate cotton prices and quality premiums and discounts on a daily basis (Brown et al.; Brown and Ethridge).

Pre-Marketing Year Price Discovery

The Commodity Credit Corporation (CCC) loan program makes nonrecourse loans to producers based on a loan schedule that assigns loan levels for base quality with premiums and discounts for various quality deviations from that base. Over time, this loan schedule has come to be used for a variety of price determination purposes ranging from allocation of dividend payments of marketing associations to forward contract pricing. This schedule has also been used by the industry as a price discovery mechanism to determine cotton prices for the upcoming marketing year. As such, this demonstrates the importance to the industry of having a means of examining the price structure of the market before the season starts in order to facilitate a number of marketing functions.

DPES Pre-Season Price Schedule

Based on market history, the Cotton Economics Research Institute has developed a method of estimating a price schedule for the upcoming marketing year. This schedule is meant to serve as an additional pre-marketing year price discovery tool. This schedule is an extension of the work started by Carr and Ethridge in which the loan schedule used by the CCC was combined with DPES annual crop estimates (beginning in 1989) to create a price schedule, which had been adjusted for the coming year using actual market history.

Beginning in 1989, a weighted average of prices by number of bales per region (West Texas and East Texas/Oklahoma) was taken for the first seven months of each crop year. These average prices were then averaged with the 1989 CCC loan schedule to derive the adjusted 1990 DPES pre-season price schedule. The following year, the 1990 DPES price schedule was adjusted using a weighted average of prices for the first seven months of the 1990 crop year to derive the 1991 DPES pre-season price schedule. This method was used to adjust the DPES price schedule for each successive marketing year up to the current crop year (2002), which is presented in Table 1.

Although it is not possible to accurately forecast cotton prices or price movements for any forthcoming marketing year, the DPES pre-season price schedule does provide a means of examining prices, premiums and discounts based on actual market history. This pre-season price schedule may be used to provide buyers and sellers with an overall picture of the spot cotton market in Texas and Oklahoma.

Conclusion

Because of the importance of accurate price reporting to the cotton industry, participants in the marketplace should have access to a timely and reliable source of information that presents an accurate representation of the cotton market. Therefore, the DPES pre-season price schedule for Texas and Oklahoma is calculated each year and is distributed on a request basis to the cotton industry so as to provide additional price information to examine the market history of quality premiums and discounts. The pre-season price schedule is also posted on the Cotton Economics Research Institute web page (<http://www.aeco.ttu.edu/DPES/>).

Note

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Table 1. 2002 DPES Pre-Season Price Schedule for Texas and Oklahoma.

Color Grade and Staple Premiums and Discounts in Points/lb. ^a											
		Staple Length									
		26 - 28	29	30	31	32	33	34	35	36	37+
C o l o r	11	-777	-643	-493	-357	-223	-91	38	164	286	405
	21	-773	-639	-489	-353	-218	-87	43	169	291	410
	31	-781	-647	-525	-363	-229	-97	32	157	279	358
	41	-803	-671	-525	-390	-257	-127	base	124	244	358
	51	-902	-775	-632	-502	-374	-249	-126	-8	109	221
	61	-1094	-977	-843	-744	-602	-484	-370	-259	-150	-46
	71	-1397	-1293	-1172	-1063	-956	-851	-748	-649	-553	-459
G r a d e	12	-915	-786	-643	-513	-384	-258	-134	-14	104	217
	22	-915	-786	-643	-513	-384	-258	-134	-14	104	217
	32	-940	-813	-697	-542	-415	-290	-167	-48	68	143
	42	-1003	-880	-741	-615	-490	-368	-248	-132	-18	91
	52	-1129	-1011	-878	-757	-638	-521	-407	-296	-188	-83
	62	-1320	-1211	-1087	-996	-864	-755	-648	-545	-445	-348
	23	-1050	-928	-792	-667	-545	-425	-307	-192	-80	28
	33	-1092	-971	-862	-715	-594	-476	-359	-246	-136	-64
	43	-1174	-1057	-927	-808	-681	-576	-463	-353	-247	-143
	53	-1314	-1204	-1079	-966	-856	-746	-640	-535	-434	-336
	63	-1507	-1407	-1291	-1207	-1083	-982	-884	-788	-695	-604
	34	-1315	-1204	-1103	-968	-857	-748	-641	-537	-436	-370
	44	-1414	-1309	-1190	-1082	-975	-870	-767	-667	-570	-475
	54	-1563	-1464	-1350	-1248	-1157	-1049	-952	-858	-767	-678

Micronaire Differences		Leaf Grade Differences		Uniformity Differences		Strength Differences	
Mike Range	Disc.	Leaf Grades	Prem./ Disc.	Uniformity	Disc./ Prem.	Grams/Tex.	Disc./ Prem.
≤ 24	-811			≤ 77	-57	18	--
25 - 26	-687	1	124	78	-43	19	--
27 - 29	-495	2	93	79	-30	20	-261
30 - 32	-299	3	56	80	-13	21	-211
33 - 34	-181	4	Base	81	Base	22	-162
35 - 49	Base	5	-73	82	13	23	-121
50 - 52	-304	6	-162	83	29	24 - 25	-72
≥ 53	-431	7	-264	84	36	26	-24
		Level 1	Level 2	85	30	27 - 28	Base
Bark		-210	-402	≥ 86	36	29	5
Preparation		-1331	-1564			30	9
Other Ext. Matter		-1111	-1158			31	16
						≥ 32	20

^a100 points = 1 cent