



## Cotton Production Per Inch of Water

98, '99, '00, '01, '02, '03, '04, '05, '06, '07 AgriPartners

County	Year	Irrigation Method	WATER - INCHES		PET	PRODUCTION		
			Irrigation	Rain/Irrig/Soil	% of	Lbs/Ac	Lbs/Ac - In Irrigation	Lbs/Ac - In Rain/Irrig/Soil
Briscoe	'07	CP	9.20	21.09	84	2153.00	234.02	102.09
Hall	'05	CP	19.35	31.53	117	2060	106.46	65.33
Collingsworth	'05	CP	15.80	25.30	96	2031	128.54	80.28
Carson	'07	CP	4.28	17.53	59	2000	467.29	114.09
Sherman	'07	CP	10.00	27.70	125	1923	192.30	69.42
Briscoe	'05	CP	5.25	23.30	91	1805	343.81	77.47
Briscoe	'02	CP	14.85	28.65	93	1737	116.97	60.63
Collingsworth	'05	CP	13.08	23.59	88	1710	130.73	72.49
Collingsworth	'04	CP	14.47	29.72	104	1660	114.72	55.85
Collingsworth	'06	CP	14.37	27.41	100	1660	115.52	60.56
Collingsworth	'06	CP	24.28	41.39	154	1658	68.29	40.06
Collingsworth	'05	CP	10.05	20.71	81	1638	162.99	79.09
Collingsworth	'06	CP	15.94	26.97	100	1630	102.26	60.44
Collingsworth	'06	CP	17.63	31.73	116	1625	92.17	51.21
Collingsworth	'07	CP	7.91	17.96	77	1590	201.01	88.53
Collingsworth	'06	CP	20.46	35.17	131	1580	77.22	39.77
Deaf Smith	'07	CP	5.75	22.00	86	1573	273.57	71.50
Randall	'02	CP	18.58	33.32	117	1557	83.80	46.73
Collingsworth	'03	CP	18.44	31.54	117	1514	82.10	48.00
Collingsworth	'03	CP	12.63	27.95	106	1513	119.79	54.13
Collingsworth	'03	CP	15.37	27.87	103	1512	98.37	54.25
Randall	'06	CP	6.00	24.10	92	1500	250.00	62.24
Gray	'07	CP	6.00	21.55	89	1488	248.00	69.05
Randall	'04	SF	10.00	27.70	93	1477	147.70	53.32
Moore	'06	CP/SF	9.96	23.29	103	1440	144.58	61.83
Collingsworth	'02	CP	20.82	34.26	133	1423	68.35	41.54
Gray	'06	CP	15.00	27.00	110	1410	94.00	52.22
Randall	'02	CP	16.45	30.80	108	1407	85.53	45.68
Collingsworth	'01	CP	21.20	27.75	131	1372	64.72	49.44
Deaf Smith	'03	CP	14.00	26.43	91	1350	96.43	51.08
Hartley	'06	CP	9.60	25.09	95	1336	139.17	53.25
Collingsworth	'07	CP	8.02	21.77	87	1320	164.59	60.63
Potter	'06	CP	12.99	28.81	111	1313	101.08	45.57
Collingsworth	'04	CP	13.40	29.65	107	1300	97.01	43.84
Randall	'05	SF	4.50	21.30	76	1300	288.89	61.03
Collingsworth	'06	CP	15.72	26.40	98	1300	82.70	49.24
Sherman	'06	CP	11.00	22.89	99	1275	115.91	55.70
Randall	'05	CP	4.50	21.30	76	1270	282.22	59.62
Briscoe	'02	CP	16.50	25.79	79	1251	75.82	48.51
Randall	'99	CP	5.00	23.33	103	1244	248.80	53.32
Carson	'05	CP	6.00	21.84	69	1240	206.67	56.78

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Collingsworth	'01	CP	19.30	25.35	122	1237	64.09	48.80
Carson	'05	CP	7.00	23.65	73	1230	175.71	52.01
Moore	'06	CP	9.50	24.23	98	1214	127.79	50.10
Collingsworth	'99	SF	17.89	31.68	150	1195	66.80	37.72
Deaf Smith	'06	RW	10.20	25.81	106	1179	115.59	45.68
Carson	'03	CP	5.01	14.51	48	1172	233.93	80.77
Collingsworth	'03	CP	23.33	35.81	133	1153	49.42	32.20
Castro	'98	CP	14.60	21.19	99	1152	78.90	54.37
Collingsworth	'02	CP	9.94	24.20	100	1145	115.19	47.31
Moore	'05	SF/ CP	11.08	24.31	89	1108	100.00	45.58
Collingsworth	'00	CP	14.30	22.17	101	1104	77.20	49.80
Castro	'98	CP	12.75	21.55	100	1100	86.27	51.04
Collingsworth	'00	CP	14.00	22.96	108	1085	77.50	47.26
Moore	'03	CP	14.20	27.85	107	1070	75.35	38.42
Briscoe	'03	CP	10.20	23.43	73	1070	104.90	45.67
Briscoe	'01	CP	7.70	22.25	96	1059	137.53	47.60
Carson	'03	CP	9.15	24.75	82	1053	115.08	42.55
Collingsworth	'03	CP	11.90	24.70	92	1050	88.24	42.51
Moore	'05	CP	8.25	23.90	87	1048	127.03	43.85
Donley	'05	CP	8.00	20.48	77	1031	128.88	50.34
Randall	'00	CP	15.99	25.86	90	1026	64.17	39.68
Deaf Smith	'06	CP	10.00	25.70	105	1025	102.50	39.88
Wheeler	'02	CP	8.85	22.65	73	1024	115.71	45.21
Randall	'98	CP	16.91	23.56	100	1015	60.02	43.08
Castro	'98	CP	12.70	19.35	89	1012	79.69	52.30
Collingsworth	'01	CP	15.05	21.98	118	1000	66.45	45.50
Moore	'03	CP	10.90	23.72	94	1000	91.74	42.16
Moore	'04	CP	11.00	22.58	76	993	90.27	43.98
Deaf Smith	'98	CP	11.83	18.21	82	992	83.85	54.48
Deaf Smith	'01	CP	8.26	21.23	81	992	120.10	46.73
Carson	'06	CP	9.96	26.26	105	985	98.90	37.51
Randall	'04	CP	10.00	25.80	87	982	98.20	38.06
Moore	'07	CP	5.60	19.02	86	980	175.00	51.52
Carson	'01	CP	12.00	22.65	92	950	79.17	41.94
Deaf Smith	'02	CP	14.00	26.90	76	950	67.86	35.32
Deaf Smith	'02	CP	6.40	18.60	55	950	148.44	51.08
Ochiltree	'05	CP	5.00	25.20	78	941	188.20	37.34
Donley	'04	CP	4.80	16.71	60	905	188.54	54.16
Deaf Smith	'02	CP	10.20	22.40	66	900	88.24	40.18
Castro	'98	CP	8.75	16.83	86	900	102.86	53.48
Briscoe	'01	CP	8.80	21.65	98	877	99.66	40.51
Gray	'02	CP	5.81	26.12	84	875	150.60	33.50
Ochiltree	'05	CP	3.70	23.65	73	872	235.68	36.87
Collingsworth	'06	CP	12.36	28.28	105	849	68.69	30.02
Briscoe	'00	CP	11.00	20.72	64	840	76.36	40.54
Donley	'05	CP	6.20	23.59	89	822	132.58	34.85
Deaf Smith	'02	CP	10.26	23.82	84	820	79.92	34.42
Dallam	'06	CP	5.25	22.01	83	810	154.29	36.80
Gray	'03	CP	3.54	20.74	69	800	225.99	38.57

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Wheeler	'03	CP	11.42	20.23	71	755	66.11	37.32
Deaf Smith	'01	RW	6.73	17.65	68	751	111.59	42.55
Collingsworth	'98	CP	10.10	17.50	92	750	74.26	42.86
Potter	'05	CP	4.21	15.79	57	750	178.15	47.50
Briscoe	'03	CP	10.70	23.77	79	730	68.22	30.71
Randall	'02	CP	4.50	19.31	68	700	155.56	36.25
Randall	'04	CP	13.15	30.85	119	680	51.71	22.04
Briscoe	'98	CP	4.80	18.45	77	674	140.42	36.53
Carson	'06	CP	7.49	18.74	75	670	89.45	35.75
Deaf Smith	'07	CP	1.50	14.09	55	670	446.67	47.55
Deaf Smith	'00	CP	5.40	17.34	68	668	123.70	38.52
Donley	'01	CP	17.50	25.03	121	630	36.00	25.17
Deaf Smith	'03	CP	7.57	25.50	79	601	79.39	23.57
Collingsworth	'99	CP	8.20	21.70	100	600	73.17	27.65
Dallam	'02	CP	12.50	18.90	70	591	47.28	31.27
Briscoe	'03	CP	7.00	14.47	52	591	84.43	40.84
Gray	'05	Dryland	0.00	10.66	38	590	0.00	55.35
Carson	'01	CP	5.50	15.61	63	550	100.00	35.23
Deaf Smith	'98	RW	6.60	14.33	61	532	80.61	37.12
Randall	'04	RW	9.60	27.28	105	520	54.17	19.06
Oldham	'02	CP	15.00	26.64	94	485	32.33	18.21
Oldham	'01	Dryland	0.00	10.35	40	435	0.00	42.03
Randall	'01	CP	1.50	6.56	26	393	262.00	59.91
Moore	'01	CP	1.50	14.06	66	375	250.00	26.67
Donley	'99	SR	6.75	23.34	108	371	54.96	15.90
Potter	'04	CP	3.51	19.01	64	250	71.23	13.15
Donley	'00	SR	8.50	25.96	118	136	16.00	5.24
Average		117	-	23.39	90	1095	-	46.82
Average Irrigation		115	10.60	23.62	91	1105	125.50	46.79
Average SF Drip		3	10.80	26.89	106	1324	167.80	50.69
Average Center Pivot		106	10.74	23.60	90	1129	126.18	47.57
Average Row Water		4	8.28	21.27	85	746	90.49	36.10
Average Dryland		2	-	10.51	39	513	-	48.69
Average Side Roll		2	7.63	24.65	113	254	35.48	10.57

CP - Center Pivot

RW - Row Water

SF - SF Drip

SR- Side Roll

Prepared by: Leon New, Professor/Extension Agricultural Engineer - Irrigation, Texas A&M Research and Extension Center, Amarillo, Texas.