1999 YEAR IN REVIEW: THE WEST Jeffrey C. Silvertooth University of Arizona Tucson, AZ

Abstract

The 1999 cotton season in the far west (California, Arizona, and New Mexico) began with a very cool and wet spring weather pattern that made planting and early crop establishment difficult. This was true to some extent throughout the region with some areas being more severely affected by problems in the spring than others. However, despite all of the difficulties experienced at the beginning of the season, overall the 1999 crop has performed relatively well. Lygus bugs presented the greatest amount of trouble in terms of pest management problems in Arizona. Insect pressures (aphid, silverleaf whitefly, and particularly lygus) were regarded as all being relatively light in California in 1999.

The acreage for Upland and Pima cotton planted in the far west in 1999 is outlined in Figures 1–2. One very notable change in this region is illustrated by the shift in Upland and Pima acres planted. In recent years it is quite clear that most of the Pima acreage has been planted in the San Joaquin Valley (SJV) of California. Thus Pima acreage in the SJV has increased, Upland (Acala) acreage has decreased in the SJV, and the Pima acreage in Arizona and New Mexico has declined (particularly in Arizona).

The production and yield figures for this region are presented in Figures 3-4. Production patterns basically follow those of acreage planted, with the shifts in Upland and Pima production reflecting those changes very clearly. Yields for both Upland and Pima in this region can probably best be described as good, average yields for the region. This in itself is very positive, considering many of the early season difficulties that were encountered.

Probably one of the most interesting features associated with the 1999 season in the far west is related to the varieties that were planted (Figures 7-12). The SJV was open for the first time to planting Upland varieties that were not approved by the Acala Board. As a result, many non-Acala or "standard Upland" varieties were planted in the SJV in 1999. Also, with the recent trend toward the increase in Pima acreage in the SJV, the number of varieties of Pima planted has increased, and the dominance of the S-7 variety has declined. Another interesting factor is associated with the number and types of transgenic varieties that are being planted in this region. Arizona has the greatest percentage of transgenic

> Reprinted from the Proceedings of the Beltwide Cotton Conference Volume 1:6-7 (2000) National Cotton Council, Memphis TN

varieties that are being planted including Bt, Roundup Ready (RR), and stacked gene (Bt and RR) varieties. Many transgenic varieties were planted and evaluated in the SJV in 1999 also.



Figure 1. Planted acres of Upland cottons in Arizona, California, and New Mexico.



Figure 2. Planted acres of Pima cottons in Arizona, California, and New Mexico.



Figure 3. Yield of Upland cottons in Arizona, California, and New Mexico.



Figure 4. Yield of Pima cottons in Arizona, California, and New Mexico.



Figure 5. Total production of Upland cottons in Arizona, California, and NewMexico.



Figure 6. Total production of Pima cottons in Arizona, California, and New Mexico.

Table 1. Percentage of Upland varieties planted in 1999 for Arizona.

Variety	Percent of Acreage
Deltapine 33B	31.2
Deltapine 35B	9.3
Deltapine 20B	5.5
AgriPro AP6101	5.2
Sure Grow 125	5.0
Deltapine 5415	4.1
Deltapine 5690R	4.0
Stoneville 474	3.4
Deltapine 90R	2.7
Deltapine 458BR	1.2
Other	28.3

Table 2. Percentage of Upland varieties planted in New Mexico for 1999.

Variety	Percent of Acreage
Deltapine 33B	8.0
Deltapine 35B	14.3
Acala 1517-91	29.7
Deltapine 458BR	1.0
Acala 1517-95	20.0
Other	27.0

Table 3. Percentage of Upland varieties planted in the low desert of California for 1999.

Variety	Percent of Acreage
Deltapine 33B	57.9
Deltapine 20B	6.2
Deltapine 5415	3.6
Deltapine 458BR	21.6
Other	11.0

Table 4. Percentage of cotton varieties planted in the SJV of California for 1999.

Variety	Percent of Acreage
Pima	29.6
Acala	54.8
Upland	15.6

Table 5. Percentage of Pima varieties planted in the SJV of California for 1999.

Variety	Percent of Acreage
Pima S-7	43.4
Germain's CH-252	9.4
Deltapine HTO	21.2
Phytogen 57	25.9
Pima S-6	<0.1
Oro Blanco	<0.1
Conquistador	<0.1
Deltapine White Pima	<0.1

Table 6. Percentage of Upland and Acala varieties planted in the SJV of California for 1999.

Variety	Percent of Acreage
Maxxa	44.9
GTO Maxxa	14.8
Deltapine 6211	5.9
Deltapine 33B	4.5
Phytogen 33	3.7
Deltapine 6100	3.6
Stoneville BXN47	3.1
Buttonwillow BR9801	3.0
Deltapine 6207	2.1
CPCSD SJ-2	1.8
Sure Grow 501	1.2
Germain's GC510	<1
CPCSD Royale	<1
Germain's GC500	<1
Germain's GC717	<0.25
Phytogen Kings Acala Plus	<0.5