



**March 15, 2011 Start of the Irrigation Season
April 1, 2012 & June 1, 2013**









Gibson-Veck-Dr

Enjoy Ln

Doniphan Dr

85

Derby Rd

Irreeta Dr

Futurity Dr

Apploosa Dr

Sunland Park Dr

Racetrack Dr

273

McNutt Rd

Posey Rd

498

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Google earth

1991

Imagery Date: 11/5/2012 31°48'07.32" N 106°33'24.83" W elev 3746 ft eye alt 10186 ft





Sunland Park Pilot Wetlands

- Acreage is available
- Lining of ponds may not be necessary
- Construction techniques and designs can minimize mosquito populations
- Polishing of effluent through “natural” processes – nitrates, BOD, coliforms, TSS
- Generate future research efforts
- Community Pride

Salts, Flows, and Loadings

Montoya Drain Data

	Irrigation Season			Non-Irrigation Season		
	<u>TDS</u>	<u>MGD</u>	<u>TPD</u>	<u>TDS</u>	<u>MGD</u>	<u>TPD</u>
Dry 1971	1377	12	69	1356	12	68
AVG 1980	1352	44	248	1739	22	160
Wet 1988	1288	58	312	1878	27	211
2012	2000?	13	108.4	2000?	6.5	54.2

Courchesne Data

	Irrigation Season			Non-Irrigation Season		
	<u>TDS</u>	<u>MGD</u>	<u>TPD</u>	<u>TDS</u>	<u>MGD</u>	<u>TPD</u>
Dry 1971	1045	143	623	1733	85	614
AVG 1980	733	443	1354	1335	138	768
Wet 1988	686	671	1919	1042	282	1225

Conclusions about Salt Loads

- Montoya Drain is ~ twice as salty as the Rio with ~ 10% of the flow. Drain accounts for nearly 20% of the salt load at Courchesne.
- Sunland Park averages 1.6 MGD soon to drop to ~ 1 MGD. Adds 3.3 TPD, < 1% of total.
- 2012 was bleak: Minimum Flow in the River was 4.2 MGD, while maximum was 534 MGD or 801 cfs.