

Conversion of Base Irrigation Groundwater Application Summary
Conversion Based on Installation of Pivot System
Don B. Meador and Karen S. Meador

Permit Number: P100-833 (HA00227)
Purpose of Use: Irrigation
Place of Use: Hays County
Original Permitted Amount: 133.200 acre-feet
Irrigation Base Amount: 66.600 acre-feet
Irrigation Unrestricted Amount: 66.600 acre-feet
Date Board Issued Original IRP: October 8, 2002

EAA WELL NO.	LOCATION	MEASURING METHOD	WITHDRAWAL RATE
W100-234	29-54.00-44.60 / 97-55.00-36.10	Meter	20 gpm
W103-468	29-54.00-30.90 / 97-55.00-31.60	Meter	200 gpm

Number of acre-feet applicant originally requested to be converted from base irrigation to unrestricted irrigation groundwater:

37.188 acre-feet

(20.588 acre-feet due to installation of pivots, and 16.600 due to dryland farming of adjacent corners)

Number of acre-feet staff recommends to be converted from base irrigation to unrestricted irrigation groundwater:

37.188 acre-feet

(20.588 acre-feet due to installation of pivots, and 16.600 due to dryland farming of adjacent corners)

Place of Use for Permit:

209.392 acres

The tract(s) of land more fully described in Warranty Deed with Vendor's Lien dated 7/21/1997 as recorded with Clerk as Document # 9712752, Volume 1331, Pages 752 - 760, Official Public Records, Hays County, Texas, and the tract(s) of land more fully described in Irrevocable Designation of Historically Irrigated Lands Pertaining to Edwards Aquifer Groundwater Rights dated 5/24/2017 as recorded with Clerk as Document # 17018395, Official Public Records, Hays County, Texas.

Current Physical Description of Place of Use:

The original IRP was granted due to historical irrigation of 66.600 acres, located one mile north of San Marcos, on the east side of Lime Kiln Rd in Hays county. On October 8, 2002, Permit No. IRP 2002-HA00227 (P100-833) was issued to Don B. Meador and Karen S. Meador. On June 13, 2017, the place of use for P100-833 was amended to include an Irrevocable Designation of Historically Irrigated Lands Pertaining to Edwards Aquifer Groundwater Rights. Currently, the 66.600 acre-feet BIG are located on the 66.600 designated historically irrigated acres (HIA). The 66.600 HIA are being utilized for agricultural use and are the subject of this Conversion of Base.

Description of Conservation Equipment:

Three (3) Greenfield center pivot irrigation systems were installed on the HIA: a 9 span pivot in September 2004, a 5 span pivot in December 2005, and a 7 span pivot in May 2007. The pivots utilize a Mid-Elevation Spray Application (MESA) to irrigate approximately 50.000 base acres.

Staff Calculations:

Staff calculated the area under the pivots and found that 50.000 base acres are currently being irrigated under the pivot system. EAA staff has calculated a projected savings of 20.588 acre-feet by the installation of the pivot system. In addition, staff calculated corner credit of 16.600 acre-feet based on the standard calculation for the center pivots (50.000 acres under the pivots subtracted from the total 66.600 base acres). Corner credit is calculated on the standard based one acre-foot per acre (considering a 75 percent coverage of the base acres and a base ratio of 1.000 acre-foot/acre). The total conversion as calculated by EAA staff is 37.188 acre-feet.

Staff Recommendation:

Staff recommends a conversion be granted for 37.188 acre-feet. The application will be reviewed at the June 27, 2017 Permits/Enforcement Committee meeting and the July 11, 2017 Board Meeting.