

Digital Well Database Output Format for Water Wells

Header Information:

This list contains location and identification information that is usually entered from the original permit. Other items included are entered from the water well construction report and the water well record received from the driller. Currently there are over 246,000 water wells in the ISGS database.

Item Name	Item Description	Item Format
API_NUMBER	12 digit number assigned by the ISGS Consists of "12" - state code /three digit county code/ 5 digit unique number/2 digit re-drill code	CHAR(12)
ISWSPNUM	IL State Water Survey "P" number	NUMBER(8)
LATITUDE	Latitude, decimal degrees, NAD83	NUMBER(9,6)
LONGITUDE	Longitude, decimal degrees, NAD83	NUMBER(9,6)
TOTAL_DEPTH	Total depth	NUMBER(5)
SECTION	Well location - section	NUMBER(2)
TWP	Well location - township	NUMBER(2)
TDIR	Well location - township direction	CHAR(1)
RNG	Well location - range	NUMBER(2)
RDIR	Well location - range direction	CHAR(1)
NSFOOT	footage N or S from corner or line	NUMBER(5)
NSDIR	Direction (N or S) for NSFOOT	CHAR(1)
EWFOOT	footage E or W from corner or line	NUMBER(5)
EWDIR	Direction (E or W) for EWFOOT	CHAR(1)
CORNER	Corner for footage directions, blank if footage from a line	CHAR(2)
QUARTERS	if location subdivided into quarters	CHAR(8)
ELEVATION	Elevation	NUMBER(5)
ELEVREF	Elevation Reference	CHAR(2)
COMP_DATE	Completion date 'YYYYMMDD'	DATE
STATUS	Well status code	CHAR(6)
FARM_NAME	Well name	CHAR(35)
FARM_NUM	Well number	CHAR(10)
COMPANY_NAME	Company name	CHAR(35)
PERMIT_NUMBER	State assigned number - NOT unique	CHAR(7)

Item Name	Item Description	Item Format
PERMIT_DATE	Permit issue date 'YYYYMMDD'	DATE
WELLTYPE	Purpose of water well. Possible choices are: BUS Water Well for Business CATH Cathodic Protection COAL Coal Test COMM Water Well for Commercial Operation DEWAT Dewatering Well FARM Household - Livestock Watering Well GEOTH Geothermal Heating and Cooling HEAT Heat Pump INDUS Industrial Water Well INJ Injection Well IRRIG Irrigation Well MINE Mine MINER Mineral Test MONIT Monitoring MUNIC Municipal Water Supply NCPUB Noncommunity - Public Water Well NPOT Non Potable Water Well O/G Oil and Gas OBS Observation Well PIEZ Piezometer PLCTL Pollution Control PRIV Private Water Well RECH Recharge SEIS Seismic Test Hole SEMIP Semi-Private Water Well STOCK Livestock Watering Well STRAT Stratigraphic Test STRU Structure Test SUBD Subdivision Water Supply SWR Surface Water Recharge Well TH Test Hole WF Water Flood/Repressurize	CHAR(5)
WFORMATION	Lithologic formation from which water is produced.	CHAR(20)
WFMFROM	Top of water producing formation (ft)	NUMBER(5)
WFMTO	Base of water producing formation (ft)	NUMBER(5)
SCRNDIAM	Screen diameter (in.)	NUMBER(5)
SCRNLGTH	Length of screen (ft)	NUMBER(5)
SLOT	Number of slots	NUMBER(5)
CASEHOLE	Casing top above ground level (ft)	NUMBER(5)
STATLEVL	Static water level below casing top (ft)	NUMBER(5)
PUMPLEVL	Pumping level (ft)	NUMBER(5)
PUMPGPM	Used when pumping at X gallons per minute	NUMBER(5)
PUMPHRS	Used when pumping for X hours	NUMBER(5)

Item Name	Item Description	Item Format
OWNER_ADD1	Property address of owner, line one.	CHAR(30)
OWNER_ADD2	Property address of owner, line two.	CHAR(30)
OWNER_CITY	City where owner of property is located.	CHAR(20)
OWNER_STATE	State where owner of property is located	CHAR(2)
OWNER_ZIP	Zip code where owner of property is located.	NUMBER(5)
LOCATION_SOURCE	Source of the location information. Possible choices are: APH Aerial Photograph verified BAD Questionable location CNS Census data DEM Digital Elevation Map DOQ Digital Orthophoto Quad DRG Digitally sited on DRG DRL Location from the driller EPA Location from EPA FLD Field verified GPS Global Positioning System verified LDR LiDAR LOG Location from a log PBK Platbook verified PMT Location from permit PST Postal data SRV Surveyed TAX Tax record verified TOP Location from topographic map WBM Web-based map service - Mapquest	CHAR(3)
VERIFIED_BY	Initials of person who verified the location of this well <Foreign Index Key> see INITIALS table.	CHAR(3)
VERIFIED_DATE	Date of location verification.	DATE
VERIFIED_NOTES	Additional notes pertaining to the verification of the location of this well.	CHAR(100)
LOT	Lot # for well, if given.	CHAR(10)
SUBD	Subdivision for well if given	CHAR(20)
ADDRESS1	Descriptive well address - (not actual street address), line 1.	CHAR(30)
ADDRESS2	Descriptive well address - (not actual street address), line 2.	CHAR(30)
PROPERTY_ID	Tax record or property ID.	CHAR(25)

Driller's Log Information:

This list contains Driller's log information that is usually entered from the well construction report received from the Driller. Some of this information has been added from ISGS Staff Geologist mapping studies and projects. Currently there are over 207,000 wells in the ISGS database with Driller's log information.

Item Name	Item Description	Item Format
API_NUMBER	12 digit number assigned by the ISGS Consists of "12" - state code /three digit county code/ 5 digit unique number/2 digit re-drill code	CHAR(12)
LATITUDE	Latitude, decimal degrees, NAD83	NUMBER(9,6)
LONGITUDE	Longitude, decimal degrees, NAD83	NUMBER(9,6)
FMTOP	top of formation/unit	NUMBER(5)
FMBASE	base of formation/unit	NUMBER(5)
DESCRIPTION	description of units passed through	CHAR(70)