An aerial photograph of a rural and semi-urban area, possibly in the Pacific Northwest, showing a mix of green fields, brown agricultural plots, and some buildings. A prominent yellow line traces a boundary across the landscape, starting from the top left, curving around a central area, and extending towards the bottom right. The text is overlaid on the right side of the map.

# Spring 2020 Ground Water Conditions

Prepared by  
Newton Geo-Hydrology Consulting Services  
June 24, 2020

# OUTLINE

Ground Water Index – Spring 2020  
Key Wells Index 2019

Rainfall

Spring and Fall  
Groundwater Index  
(GW)

Year	Rainfall Water Year (inches)	Spring GWI (Acre-Feet)	Number of Wells	Fall GWI (Acre-Feet)	Number of Wells	Spring to Fall Difference (Acre-Feet)
1975	17.29	99,000	54	91,000	54	8,000
1976	13.45	82,000	45	76,000	65	6,000
1977	10.23	64,000	59	54,000	63	10,000
1978	30.00	84,000	62	---	35	---
1979	15.80	72,000	57	77,000	63	(5,000)
1980	16.57	88,000	55	89,000	46	(1,000)
1981	14.32	97,000	46	75,000	47	22,000
1982	18.58	123,000	42	---	31	---
1983	33.09	---	35	95,000	42	---
1984	10.38	---	14	76,000	37	---
1985	12.20	106,000	37	82,000	41	24,000
1986	16.85	98,000	51	67,000	51	31,000
1987	11.29	83,000	48	71,000	52	12,000
1988	12.66	80,000	51	66,000	49	14,000
1989	12.25	59,000	47	47,000	57	12,000
1990	7.12	62,000	55	49,000	53	13,000
1991	13.18	62,000	52	55,000	54	7,000
1992	15.66	61,000	52	35,000	48	26,000
1993	20.17	72,000	54	52,000	61	20,000
1994	12.15	60,000	54	---	36	---
1995	25.87	87,000	35	74,000	52	13,000
1996	16.54	76,000	45	62,000	57	14,000
1997	20.50	---	20	91,000	48	---
1998	33.67	105,000	41	93,000	44	12,000
1999	12.98	106,000	56	88,000	49	18,000
2000	14.47	108,000	44	84,000	41	24,000
2001	21.62	118,000	43	85,000	35	33,000
2002	10.25	96,000	29	79,000	41	17,000
2003	11.39	94,000	37	66,000	42	28,000
2004	12.57	89,000	42	81,000	35	8,000
2005	22.23	98,000	38	79,000	39	19,000
2006	20.83	107,000	44	78,000	41	29,000
2007	7.11	93,000	44	66,000	42	27,000
2008	15.18	83,000	43	65,000	42	18,000
2009	10.31	76,000	44	65,000	43	11,000
2010	20.07	80,000	45	67,000	42	13,000
2011	34.05	87,000	43	81,000	43	6,000
2012	15.35	89,000	45	65,000	44	24,000
2013	8.07	67,000	45	42,000	43	25,000
2014	4.72	57,000	45	47,000	42	10,000
2015	8.65	52,000	42	45,000	39	7,000
2016	11.48	62,000	39	50,000	41	12,000
2017	29.41	70,000	36	52,000	43	18,000
2018	10.16	58,000	42	56,000	38	2,000
2019	23.71	57,000	42	40,000	42	17,000
2020	12.88*	61,000	39	---	---	---

---: Insufficient for evaluation  
\*: Preliminary value

# GWI

Spring and Fall  
Groundwater Index  
(GWI)

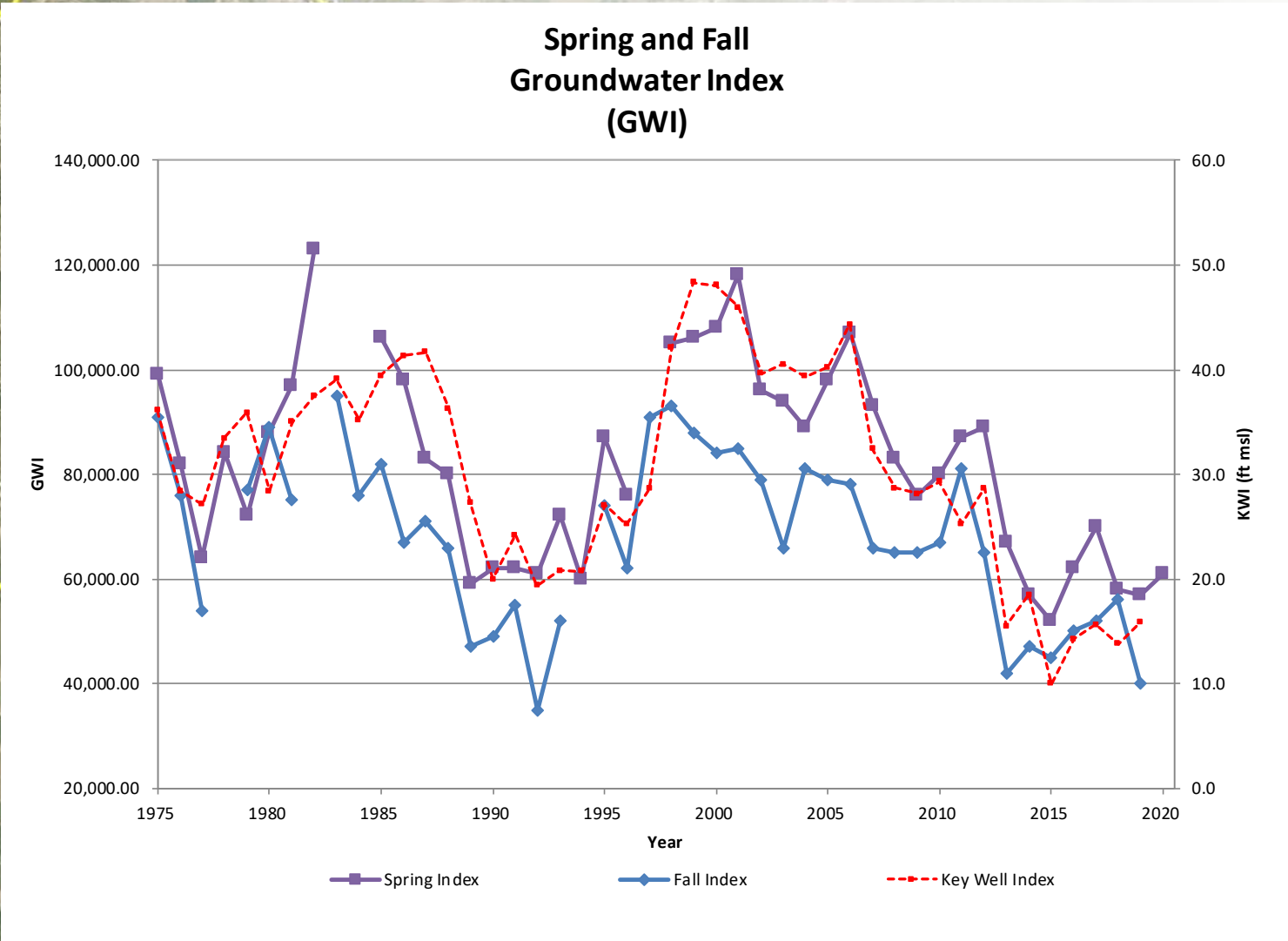
Year	Rainfall Water Year (inches)	Spring GWI (Acre-Feet)	Number of Wells	Fall GWI (Acre-Feet)	Number of Wells	Spring to Fall Difference (Acre-Feet)
1975	17.29	99,000	54	91,000	54	8,000
2006	20.83	107,000	44	78,000	41	29,000
2007	7.11	93,000	44	66,000	42	27,000
2008	15.18	83,000	43	65,000	42	18,000
2009	10.31	76,000	44	65,000	43	11,000
2010	20.07	80,000	45	67,000	42	13,000
2011	34.05	87,000	43	81,000	43	6,000
2012	15.35	89,000	45	65,000	44	24,000
2013	8.07	67,000	45	42,000	43	25,000
2014	4.72	57,000	45	47,000	42	10,000
2015	8.65	52,000	42	45,000	39	7,000
2016	11.48	62,000	39	50,000	41	12,000
2017	29.41	70,000	36	52,000	43	18,000
2018	10.16	58,000	42	56,000	38	2,000
2019	23.71	57,000	42	40,000	42	17,000
2020	12.88*	61,000	39			

2008	15.18	83,000	43	65,000	42	18,000
2009	10.31	76,000	44	65,000	43	11,000
2010	20.07	80,000	45	67,000	42	13,000
2011	34.05	87,000	43	81,000	43	6,000
2012	15.35	89,000	45	65,000	44	24,000
2013	8.07	67,000	45	42,000	43	25,000
2014	4.72	57,000	45	47,000	42	10,000
2015	8.65	52,000	42	45,000	39	7,000
2016	11.48	62,000	39	50,000	41	12,000
2017	29.41	70,000	36	52,000	43	18,000
2018	10.16	58,000	42	56,000	38	2,000
2019	23.71	57,000	42	40,000	42	17,000
2020	12.88*	61,000	39			

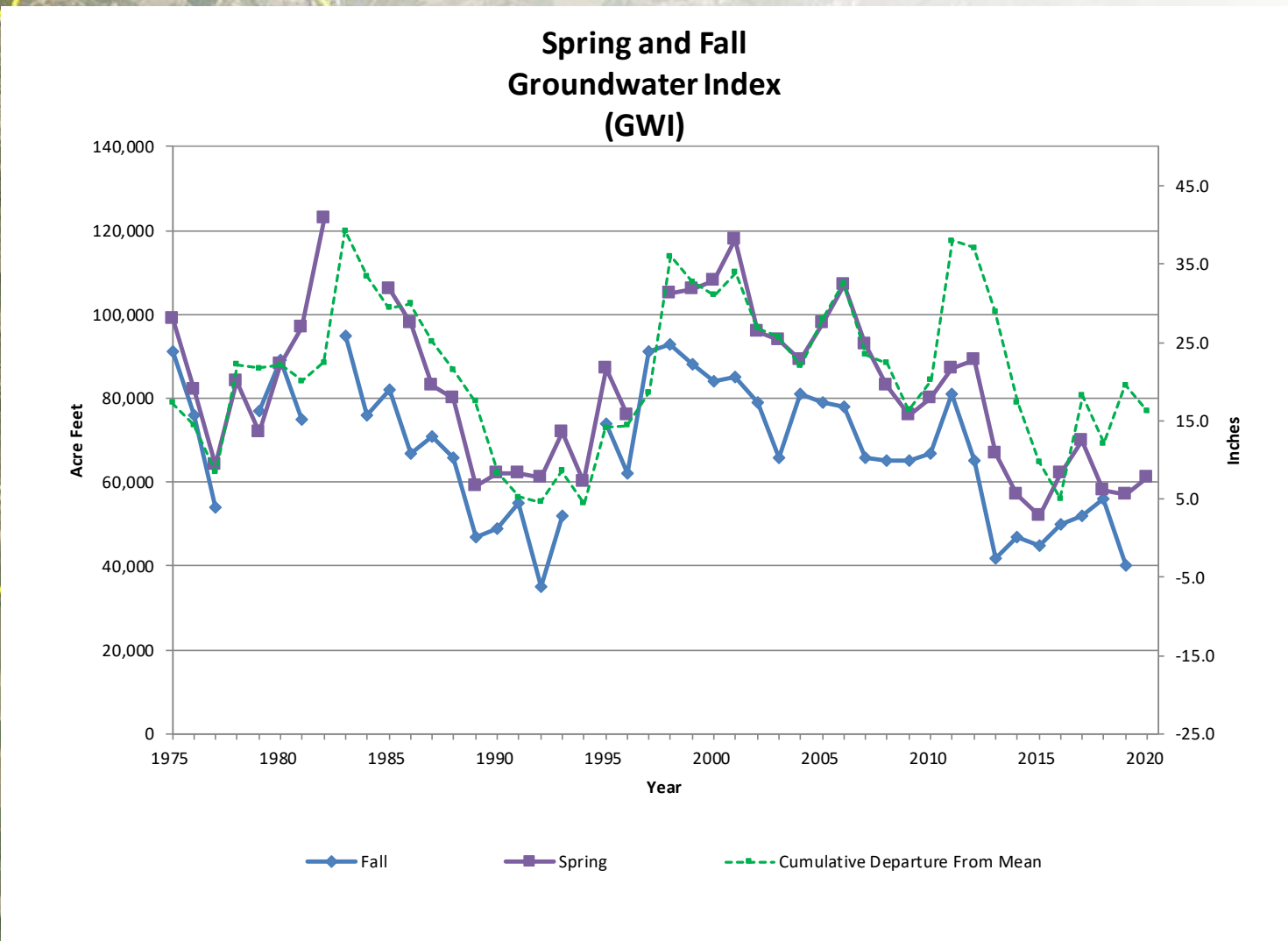
---: Insufficient for evaluation  
\*: Preliminary value

\*: Preliminary value

# GWI and KWI



# GWI – KWI - Rainfall



An aerial photograph of a rural landscape, likely a farm or agricultural area. The image shows a mix of green fields, brown patches, and some buildings. A prominent yellow line outlines a specific area within the landscape. The text "QUESTIONS?" is overlaid in the center of the image.

**QUESTIONS?**