

Summary of well yield and spring discharge, Mesozoic hydrogeologic units, Wyoming.

[gal/min, gallons per minute; (gal/min)/ft., gallons per minute/foot of drawdown; ft³/day, feet squared per day; GRB, Green River Basin; GWS, Great Divide/Washakie/Sand Wash Basins; RSU, Rock Springs Uplift; OB, Overthrust Belt; RU, Rawlins Uplift]

Region	U.S. Geological Survey National Water Information System (NWIS)				Other sources				
	Well yield		Spring discharge		Well yield		Spring discharge		
	Flowing	Pumped	Flowing		Flowing and pumped		Flowing		
Count	Range (median) (gal/min)	Count	Range (median) (gal/min)	Count	Range (median) (gal/min)	Count	Range (median) (gal/min)	Count	Range (median) (gal/min)
Lance Formation									
GRB									
GWS			1	6			2	0.02; 7	
RSU									
Fox Hills Sandstone									
GRB									
GWS			1	219					
Lewis Shale									
GWS			3	1.5-2 (1.7)	3	1-2 (1)			
Mesaverde Group or Formation									
GRB					1	1			
GWS	3	5-40 (30)	1	40	5	0.2-20 (4.5)	6	1-60 (22)	
RSU			2	160; 240					
Almond Formation									
GRB	1	75							
GWS	5	6-120 (14)							
RSU					2	0; 1	9	15-250 (80)	
Ericson Sandstone									
GRB					2	20; 20			
GWS							1	110	
RSU	1	50	2	250; 250	2	2; 6	7	15-250 (200)	
Rock Springs Formation									
RSU	2	500; 4,000	1	60			3	100-250 (250)	
Blair Formation									
RSU					3	0.5-30 (20)	19	5-412 (14)	
Blind Bull Formation									
OB					1	50			
Baxter Shale									
GRB									
RSU			1	20	4	1-12 (4.5)			
Undifferentiated Baxter and Hilliard Shales									
GRB									
Cody Shale									
GWS			7	1.5-33.3 (15)					
Steele Shale									
GWS					1	2	2	10; 22	
Niobrara Formation									
GWS					1	0.1	1	3	
Hilliard Shale									
GRB									
OB					3	4-9 (5)	1	6	
Frontier Formation									
GRB							1	1	
GWS							2	4; 10	
RSU							1	0.3	
RU							2	20; 30	
OB			1	6	7	0.3-100 (1.5)	1	3	6
Aspen Shale									
GRB									
OB	3	1-30 (1)	1	12	3	1-3 (2.5)	1	26	
Muddy Sandstone Member of the Thermopolis Shale									
GRB									
GWS									
Bear River Formation									
GRB									
OB	1	0.2			3	1-15 (4)	1	5	1
Cloverly Formation									
GRB									
GWS									
RSU									
Undifferentiated Cloverly and Morrison Formations									
GRB									
Gannett Group									
GRB									
OB					4	3-121 (20)	1	30	1
Ephraim Conglomerate of the Gannett Group									
OB					1	10			
Morrison Formation									
GRB									
GWS									
RSU									
Sundance Formation									
GWS							3	27-35 (28)	
RSU									
Stump Formation									
GRB									
Preuss Sandstone									
GRB									
GWS									
Twin Creek Limestone									
OB					2	2; 30			3
Nugget Sandstone									
RSU	1	30							
OB					7	1-75 (5)			2
RSU									3; 20
OB									
Chugwater Formation or Group									
GWS									
RSU			1	9					
RU									
Ankareh Formation									
OB					1	200			
Thaynes Limestone									
OB					3	1-900 (10)			2
Dinwoody Formation									
GRB					2	5; 50			
OB									
Undifferentiated Dinwoody and Phosphoria Formations									
OB									

Summary of hydraulic properties, Mesozoic hydrogeologic units, Wyoming.

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Region	Well yield and (or) spring discharge		Specific capacity		Transmissivity		Porosity		Hydraulic conductivity		Storativity/storage coefficient	
	Count	Range (gal/min)	Count	Range [(gal/min)/ft]	Count	Range (ft ² /day)	Count	Range (percent)	Count	Range (ft/day)	Count	Range (unitless)
Lance Formation												
GRB							2	12; 18				
GWS	3	0.02-7	2	0.001; 0.1	12	0.04-20						
RSU					5	0.1-3						
Fox Hills Sandstone												
GRB					1	3.1						
GWS	1	219			2	3; 22			1	0.1		
Lewis Shale												
GWS	6	1-2			7	0.07-0.9						
Mesaverde Group or Formation												
GRB	1	1			9	0.03-22	14	12-24	9	0.001-0.1		
GWS	15	0.2-60	3	2-20	71	0.1-4,690	56	8-26	1	0.1	6	0.000002-0.007
RSU	2	160; 240			2	175; 462			1	11		
Almond Formation												
GRB	1	75										
GWS	5	6-120			5	0.04-0.6						
RSU	11	0-250	4	0.6-1	15	0.01-119	2	12; 15	2	0.0003; 2		
Ericson Sandstone												
GRB	2	20										
GWS	1	110			1	386						
RSU	12	2-250			4	0.01-124	2	10; 13	2	0.0003; 0.0007	1	0.00002
Rock Springs Formation												
RSU	6	60-4,000			2	0.03; 48	2	10; 16	1	0.0003		
Blair Formation												
RSU	22	0.5-412			16	13.4-630						
Blind Bull Formation												
OB	1	50										
Baxter Shale												
GRB					3	0.07-0.7						
RSU	5	1-20			1	21			1	0.3		
Undifferentiated Baxter and Hilliard Shales												
GRB					5	0.01-0.7	4	10-21	1	0.00003		
Cody Shale												
GWS	7	2-33										
Steele Shale												
GWS	3	2-22										
Niobrara Formation												
GWS	2	0.1; 3	1	0.03	1	1						
Hilliard Shale												
GRB					1	0.3						
OB	4	4-9										
Frontier Formation												
GRB	1	1			59	0.009-6	51	8-25	43	0.0002-1		
GWS	2	4; 10	1	0.8	44	0.1-878	31	7-25				
RSU	1	0.3			9	0.1-5						
RU	2	20; 30	2	20; 30	2	2,010; 2,680						
OB	15	0.3-100			2	0.1; 1						
Aspen Shale												
GRB					4	0.07-0.1	1	15				
OB	8	1-30										
Muddy Sandstone Member of the Thermopolis Shale												
GRB					3	0.2-0.6	1	18	1	0.01		
GWS					4	0.4-2						
Bear River Formation												
GRB												
OB	1	0.2			3	1-15 (4)	1	5	1	10		
Cloverly Formation												
GRB							28	0.01-56	11	8-21	11	0.0005-0.2
GWS							45	0.1-35	34	8-25		
RSU							16	0.01-56				
Undifferentiated Cloverly and Morrison Formations												
GRB							1	1				
Gannett Group												
GRB							1	0.08				
OB	6	3-121			2	0.08; 21	2	18; 21	1	0.7		
Ephraim Conglomerate of the Gannett Group												
OB	1	10										
Morrison Formation												
GRB							3	0.06-1	4	8-17	1	0.2
GWS							1	0.8				
RSU							3	0.1-6				
Sundance Formation												
GWS	3	27-35	1	0.2	2	5; 32						
RSU							3	2-50				
Stump Formation												
GRB							2	0.4; 0.4				
Preuss Sandstone												
GRB							2	0.5; 2				
GWS							1	0.5				
Twin Creek Limestone												
OB	5	2-300			3*	0.01-2	1	2	na*	0.00003-0.0003		
Nugget Sandstone												
GRB							19	0.4-6	2	10; 14	1	0.03
GWS							11	0.1-15				
RSU	1	30					7	0.4-290				
OB	9	1-75					16	0.3-25	4	10-20	4	0.08-0.4
Chugwater Formation or Group												
GWS							2	0.3; 2				
RSU							1	0.06				
RU	1	9										
Ankareh Formation												