State/ Province	Mississippi	Mississippi	Missouri
Operating Company	PAA Natural Gas Storage, LLC	Williams Gas Pipelines - Transco	Laclede Gas Co.
Storage Facility Name	Southern Pines	Eminence	Lange Storage
Facility Status	Active	Active	Active
County	Greene	Covington	St. Louis
Year Activated/ Deactivated	2008	1970	1955
Discovery/ Development Year	2006	1968	1953
RESERVOIR DESCRIPTION			
Type of Storage	Salt Cavern	Salt Cavern	Aquifer
Original Contents	Salt	Salt	Water
Discovery Pressure		n/a	580
Original In-Place Reserves - Gas			na
Original In-Place Reserves - Oil			
Storage Formation Name	Byrd Salt Dome	Eminence Salt Dome	St. Peter
Storage Lithology	Salt	Domal Salt	Sandstone
Gross Thickness	1,871	1,000	100
Type of Geological Trap	Domal Salt Cavern	Salt Cavern	Anticline
Geologic Age	Jurrasic	Cretaceous	Ordovician
Max Depth to Formation	6,371		1,590
Min Depth to Formation	3,900	2,400	1,352
Areal Extent of Reservoir	929		13,000
FACILITY DATA			
Injection/Withdrawal Wells - Total	4	3	45
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells	1	3	36
Total Horsepower	48,000	15,635	8,620
Horsepower Shared?	No	No	No
Gathering Lines -- Total	1		15
Gathering Line -- Max Pipesize	24	16	20
DESIGN VALUES			
Base Gas	7	5,000	7,845
Working Gas Capacity	26	11,000	3,500
Max Storage Pressure	3,218	3,200	630
Max Design Deliverability	2	1,200	420
Late Season / Last Day Deliverability		1,200	180
Annual Cycling Capability	10	2	1
FOOTNOTES	* Capacities as of 4-1-13		
Last Updated	2013	2013	2013

State/ Province	Montana	Montana	Montana
Operating Company	NorthWestern Energy	NorthWestern Energy	NorthWestern Energy
Storage Facility Name	Box Elder	Cobb	Dry Creek
Facility Status	Active	Active	Active
County	Blaine & Hill	Glacier & Toole	Carbon
Year Activated/ Deactivated	1959	1962	1966
Discovery/ Development Year	1931	1937	1926
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	405	738	1,600
Original In-Place Reserves - Gas	7,900	40,000	37,825
Original In-Place Reserves - Oil			
Storage Formation Name	Eagle Sand	Moulton Sand	Frontier/Greybull
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	20	25	30
Type of Geological Trap	Structural Trap	Stratigraphic Trap	Structural Trap
Geologic Age	Cretaceous	Cretaceous	Cretaceous
Max Depth to Formation	1,300	2,600	5,400
Min Depth to Formation	1,200	2,400	4,800
Areal Extent of Reservoir	1,160	6,900	2,000
FACILITY DATA			
Injection/Withdrawal Wells - Total	7	49	12
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells		3	1
Total Horsepower	520	8,700	2,510
Horsepower Shared?	No	No	No
Gathering Lines -- Total	3	72	7
Gathering Line -- Max Pipesize	4	20	8
DESIGN VALUES			
Base Gas	5,000	28,750	20,200
Working Gas Capacity	2,900	11,250	17,625
Max Storage Pressure	405	720	1,600
Max Design Deliverability	5	150	40
Late Season / Last Day Deliverability	5	150	40
Annual Cycling Capability	1	1	1
FOOTNOTES			
Last Updated	2013	2013	2013

State/ Province	Montana	Montana	Nebraska
Operating Company	NorthWestern Energy	WBI Energy Transmission, Inc.	Tallgrass Interstate Gas Transmission LLC
Storage Facility Name	Shelby	Baker (Cedar Creek)	Huntsman
Facility Status	Active	Active	Active
County	Toole	Fallon	Cheyenne
Year Activated/ Deactivated	1959	1945	1963
Discovery/ Development Year	1927	1915	1950
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas/Oil
Discovery Pressure	308	210	1,169
Original In-Place Reserves - Gas	2,450	287,200	42,270
Original In-Place Reserves - Oil		N/A	
Storage Formation Name	Sunburst Sand	Judith River	Third Dakota "J" Sand
Storage Lithology	Sandstone	Quartz Sand	Sandstone
Gross Thickness	20	60	45
Type of Geological Trap	Stratigraphic Trap	Anticline	Structural/Stratigraphic Trap
Geologic Age	Cretaceous	Cretaceous	Cretaceous
Max Depth to Formation	1,380	1,100	4,840
Min Depth to Formation	1,320	700	4,810
Areal Extent of Reservoir	720	90,388	
FACILITY DATA			
Injection/Withdrawal Wells - Total	3	174	30
Injection/Withdrawal Wells - Horizontal		N/A	
Pressure Control / Observation Wells	0	17	21
Total Horsepower	360	13,520	11,000
Horsepower Shared?	Yes	No	Yes
Gathering Lines -- Total	1	138	
Gathering Line -- Max Pipesize	6	14	12
DESIGN VALUES			
Base Gas	10	122,773	20,031
Working Gas Capacity		164,427	14,819
Max Storage Pressure	300	280	1,050
Max Design Deliverability	0	150	210
Late Season / Last Day Deliverability	0	150	N/A
Annual Cycling Capability		1	1
FOOTNOTES	Storage field being depleted prior to abandonment.	Working Gas Capacity - represents FERC certificated maximum storage capacity.	Tallgrass Energy Partners was formed in Nov. 2012 to own & operate certain assets formerly owned & operated by Kinder Morgan
Last Updated	2013	2013	2013

State/ Province	New Mexico	New Mexico	New Mexico
Operating Company	Enstor	Kinder Morgan EPNG	PNM Gas Services
Storage Facility Name	Gramma Ridge	Washington Ranch	Las Milpas
Facility Status	Active	Active	Active
County	Lea	Eddy	Sandoval
Year Activated/ Deactivated	1973	1982	1973
Discovery/ Development Year	1965	1971	1971
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Aquifer
Original Contents	Gas	Gas	Water
Discovery Pressure	8,000	2,593	1,050
Original In-Place Reserves - Gas		68,600	
Original In-Place Reserves - Oil			
Storage Formation Name	Morrow	Morrow	Aqua Zarca
Storage Lithology		Sandstone	Sandstone
Gross Thickness	50	69	145
Type of Geological Trap	--	Structural / Stratigraphic	Structural Trap
Geologic Age	Pennsylvanian	Pennsylvanian	Tertiary
Max Depth to Formation	13,208	6,923	2,890
Min Depth to Formation	13,000	6,664	2,745
Areal Extent of Reservoir		5,678	
FACILITY DATA			
Injection/Withdrawal Wells - Total	4	17	4
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells	1	3	6
Total Horsepower	2,000	9,000	1,000
Horsepower Shared?	No	No	No
Gathering Lines -- Total		7	
Gathering Line -- Max Pipesize	6	16	4
DESIGN VALUES			
Base Gas		24,562	3,630
Working Gas Capacity	2,364	44,038	1,130
Max Storage Pressure	7,000	2,593	1,155
Max Design Deliverability	50	250	11
Late Season / Last Day Deliverability	0		
Annual Cycling Capability		N/A	1
FOOTNOTES	Data taken from "Underground Storage of Natural Gas in the U.S. & Canada: 2004" AGA publication.		
Last Updated	2004	2013	2004

State/ Province	New York	New York	New York
Operating Company	Columbia Gas Transmission LLC	Columbia Gas Transmission LLC	Columbia Gas Transmission LLC
Storage Facility Name	Dundee	Greenwood	North Greenwood
Facility Status	Active	Active	Active
County	Schuyler; Steuben; Yates	Steuben	Steuben
Year Activated/ Deactivated	1940	1942	1971
Discovery/ Development Year	1930	1942	1942
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	765	1,900	1,900
Original In-Place Reserves - Gas			
Original In-Place Reserves - Oil			
Storage Formation Name	Oriskany	Oriskany	Oriskany
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	15	10	10
Type of Geological Trap	Struct./Strat.	Structural Trap	Structural Trap
Geologic Age	Devonian	Devonian	Devonian
Max Depth to Formation	2,202	4,839	4,813
Min Depth to Formation	1,671	4,180	4,747
Areal Extent of Reservoir			
FACILITY DATA			
Injection/Withdrawal Wells - Total	112	3	2
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells	19	4	0
Total Horsepower	1,880	1,000	1,000
Horsepower Shared?	No	Yes	Yes
Gathering Lines -- Total	25	2	1
Gathering Line -- Max Pipesize	16	8	8
DESIGN VALUES			
Base Gas	7,160	3,195	2,100
Working Gas Capacity	4,200	130	1,100
Max Storage Pressure	765	2,000	2,000
Max Design Deliverability	62	0	5
Late Season / Last Day Deliverability			
Annual Cycling Capability	1	1	1
FOOTNOTES		Compression shared with North Greenwood.	Compression shared with Greenwood.
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	Crestwood/Arlington Storage Co	Crestwood/Arlington Storage Co	Crestwood/New York State Elect. & Gas Corp.
Storage Facility Name	Adrian	Thomas Corners	Seneca Lake
Facility Status	Active	Active	Active
County	Steuben	Steuben	Schuyler
Year Activated/ Deactivated	1991	2009	1996
Discovery/ Development Year	1971	1971	1893
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Bedded Salt Cavern
Original Contents	Gas	Gas	Salt
Discovery Pressure	1,900	1,912	N/A
Original In-Place Reserves - Gas	7,232	6,720	N/A
Original In-Place Reserves - Oil			
Storage Formation Name	Onondaga Reef	Onondaga Reef	Syracuse
Storage Lithology	Limestone	Limestone	Salt
Gross Thickness	120	201	800
Type of Geological Trap	Reef	Structural-Stratigraphic	Salt Cavern
Geologic Age	Devonian	Devonian	Not Known/Not Specified
Max Depth to Formation	4,145	3,640	2,703
Min Depth to Formation	3,546	3,546	1,871
Areal Extent of Reservoir	700	640	3.676 acres +/-
FACILITY DATA			
Injection/Withdrawal Wells - Total	11	9	2
Injection/Withdrawal Wells - Horizontal	2	9	
Pressure Control / Observation Wells	1		
Total Horsepower	3,300	7,200	7,761
Horsepower Shared?	No	No	No
Gathering Lines -- Total	1	1	0
Gathering Line -- Max Pipesize	13	6	16
DESIGN VALUES			
Base Gas	2,300	1,300	580
Working Gas Capacity	6,200	5,700	1,450
Max Storage Pressure	2,220	2,700	1,365
Max Design Deliverability	60	140	145
Late Season / Last Day Deliverability	26	45	
Annual Cycling Capability	1	2	12
FOOTNOTES			
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	Dominion Transmission Inc.	Dominion Transmission Inc.	Honeoye Storage Corp.
Storage Facility Name	Woodhull	Quinlan	Honeoye
Facility Status	Active	Active	Active
County	Steuben	Cattaraugus	Ontario
Year Activated/ Deactivated	1957	2006	1975
Discovery/ Development Year	1937	1979	1956
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	oil and gas	Gas
Discovery Pressure	1,950	2,317	660
Original In-Place Reserves - Gas	35,904	7,900	6,300
Original In-Place Reserves - Oil			
Storage Formation Name	Oriskany	Onondaga	Medina
Storage Lithology	Sandstone	"Patch" Reef	
Gross Thickness	20	up to 200'	7
Type of Geological Trap	Structural Trap	Domal Reef	Stratigraphic Trap
Geologic Age	Lower Devonian	Middle Devonian	Silurian
Max Depth to Formation	4,205	4,707	3,288
Min Depth to Formation	3,600	4,296	2,304
Areal Extent of Reservoir			5,910
FACILITY DATA			
Injection/Withdrawal Wells - Total	49	4	27
Injection/Withdrawal Wells - Horizontal			1
Pressure Control / Observation Wells	2	1	11
Total Horsepower	14,700	4,740	2,800
Horsepower Shared?	No	No	
Gathering Lines -- Total			19
Gathering Line -- Max Pipesize	16		10
DESIGN VALUES			
Base Gas	15,307	3,900	4,676
Working Gas Capacity	20,597	4,000	6,770
Max Storage Pressure	1,950	2,317	1,035
Max Design Deliverability	357	300	55
Late Season / Last Day Deliverability	NA	NA	22
Annual Cycling Capability			1
FOOTNOTES			Changes per FERC filing 2012.
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.
Storage Facility Name	Beech Hill	Bennington	Colden
Facility Status	Active	Active	Active
County	Allegany	Erie, Wyoming	Erie
Year Activated/ Deactivated	1980	1951	1952
Discovery/ Development Year	1938	1918	1926
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	2,000	740	800
Original In-Place Reserves - Gas			
Original In-Place Reserves - Oil			
Storage Formation Name	Oriskany	Medina	Medina
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	30	8	15
Type of Geological Trap	Structural Trap	Stratigraphic Trap	Stratigraphic Trap
Geologic Age	Devonian	Silurian	Silurian
Max Depth to Formation	5,222	2,059	2,781
Min Depth to Formation	4,363	1,819	2,052
Areal Extent of Reservoir	4,888	5,917	10,781
FACILITY DATA			
Injection/Withdrawal Wells - Total	39	63	159
Injection/Withdrawal Wells - Horizontal			2
Pressure Control / Observation Wells	26	1	10
Total Horsepower	8,350		8,400
Horsepower Shared?	No	Yes	No
Gathering Lines -- Total	11	21	64
Gathering Line -- Max Pipesize	12	12	16
DESIGN VALUES			
Base Gas	13,100	3,330	11,170
Working Gas Capacity	9,900	1,800	7,550
Max Storage Pressure	2,000	700	800
Max Design Deliverability	66	75	120
Late Season / Last Day Deliverability			
Annual Cycling Capability	1	1	1
FOOTNOTES		Compression shared with Holland. Compression listed under Holland.	Jointly owned by Tennessee Gas Pipeline, which owns all injected base gas and compression.
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.
Storage Facility Name	Collins	Derby	East Independence
Facility Status	Active	Active	Active
County	Erie	Erie	Allegany
Year Activated/ Deactivated	1948	1950	1972
Discovery/ Development Year	1912	1946	1940
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	970	740	2,000
Original In-Place Reserves - Gas			
Original In-Place Reserves - Oil			
Storage Formation Name	Whirlpool	Whirlpool	Oriskany
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	8	8	30
Type of Geological Trap	Stratigraphic Trap	Stratigraphic Trap	Struct./Strat.
Geologic Age	Silurian	Silurian	Devonian
Max Depth to Formation	3,174	1,551	5,058
Min Depth to Formation	2,726	1,479	4,808
Areal Extent of Reservoir	4,097	672	3,964
FACILITY DATA			
Injection/Withdrawal Wells - Total	44	12	7
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells	2	2	4
Total Horsepower		75	5,000
Horsepower Shared?	Yes	No	Yes
Gathering Lines -- Total	14	3	3
Gathering Line -- Max Pipesize	8	6	12
DESIGN VALUES			
Base Gas	3,830	220	4,200
Working Gas Capacity	2,850	250	2,200
Max Storage Pressure	970	700	2,000
Max Design Deliverability	50	5	38
Late Season / Last Day Deliverability			
Annual Cycling Capability	1	1	1
FOOTNOTES	Compression shared with Lawtons and Zoar. Compression listed under Zoar also serves this field.		Compression (Independence Station) shared with West Independence.
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.
Storage Facility Name	Holland	Lawtons	Limestone
Facility Status	Active	Active	Active
County	Erie	Erie	Cattaragus
Year Activated/ Deactivated	1949	1949	1970
Discovery/ Development Year	1923	1917	1955
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	825	750	1,913
Original In-Place Reserves - Gas			
Original In-Place Reserves - Oil			
Storage Formation Name	Whirlpool	Whirlpool	Oriskany
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	8	8	18
Type of Geological Trap	Stratigraphic Trap	Stratigraphic Trap	Stratigraphic Trap
Geologic Age	Silurian	Silurian	Devonian
Max Depth to Formation	2,710	2,509	4,344
Min Depth to Formation	2,300	2,291	3,720
Areal Extent of Reservoir	1,707	3,493	3,258
FACILITY DATA			
Injection/Withdrawal Wells - Total	24	29	10
Injection/Withdrawal Wells - Horizontal	1	1	
Pressure Control / Observation Wells	1	2	4
Total Horsepower	600		1,030
Horsepower Shared?	Yes	Yes	No
Gathering Lines -- Total	19	15	8
Gathering Line -- Max Pipesize	12	8	6
DESIGN VALUES			
Base Gas	1,570	1,880	7,000
Working Gas Capacity	1,100	970	2,000
Max Storage Pressure	800	750	2,000
Max Design Deliverability	35	33	37
Late Season / Last Day Deliverability			
Annual Cycling Capability	1	1	1
FOOTNOTES	Compression listed under Bennington also serves this field.	Compression shared with Collins and Zoar. Compression listed under Zoar also serves this field.	
Last Updated	2013	2013	2013

State/ Province	New York	New York	New York
Operating Company	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.	National Fuel Gas Supply Corp.
Storage Facility Name	Nashville	Perrysburg	Sheridan
Facility Status	Active	Active	Active
County	Cattaraugus, Chautauqua	Cattaraugus	Chautauqua
Year Activated/ Deactivated	1956	1961	1937
Discovery/ Development Year	1928	1925	1910
RESERVOIR DESCRIPTION			
Type of Storage	Depleted Reservoir	Depleted Reservoir	Depleted Reservoir
Original Contents	Gas	Gas	Gas
Discovery Pressure	940	975	850
Original In-Place Reserves - Gas			
Original In-Place Reserves - Oil			
Storage Formation Name	Medina	Medina	Medina
Storage Lithology	Sandstone	Sandstone	Sandstone
Gross Thickness	15	8	12
Type of Geological Trap	Stratigraphic Trap	Stratigraphic Trap	Stratigraphic Trap
Geologic Age	Silurian	Silurian	Silurian
Max Depth to Formation	3,227	3,144	2,118
Min Depth to Formation	2,656	2,679	2,026
Areal Extent of Reservoir	4,848	3,838	2,832
FACILITY DATA			
Injection/Withdrawal Wells - Total	68	39	25
Injection/Withdrawal Wells - Horizontal			
Pressure Control / Observation Wells	3	1	6
Total Horsepower	3,545		
Horsepower Shared?	Yes	Yes	Yes
Gathering Lines -- Total	23	17	11
Gathering Line -- Max Pipesize	12	12	8
DESIGN VALUES			
Base Gas	5,050	3,200	3,310
Working Gas Capacity	3,930	1,850	1,100
Max Storage Pressure	940	975	800
Max Design Deliverability	110	60	25
Late Season / Last Day Deliverability			
Annual Cycling Capability	1	1	1
FOOTNOTES	Compression shared with Perrysburg and Sheridan.	Compression shared with Nashville and Sheridan. Compression listed under Nashville.	Compression shared with Nashville and Perrysburg. Compression listed under Nashville.
Last Updated	2013	2013	2013