Texas Water Development Board





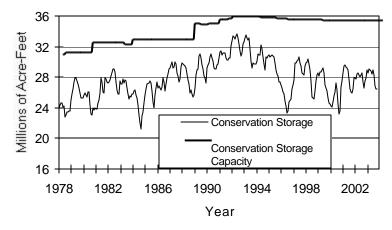
RESERVOIR STORAGE

October 2003

Near the end of October, the 77 reservoirs monitored for this report held 26.47 million acre-feet in conservation storage, or 76.8 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is below normal for this time of year. Storage increased during the month by 22,770 acre-feet (0.07% of conservation storage capacity). Compared to the previous year, storage is slightly less, down 0.97 million acre-feet (-2.8%).

Storage in the Upper Coast Region is near capacity (99%), while the High Plains (26%) and Trans-Pecos (16%) Regions remained lower than one-third. Storage is at 100% in 7 reservoirs, up 3 from last month. Compared to this time last year, the Edwards Plateau had the largest increase in storage (+6%), while the Low Rolling Plains, North Central, and East regions had the steepest decline (-2%).

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

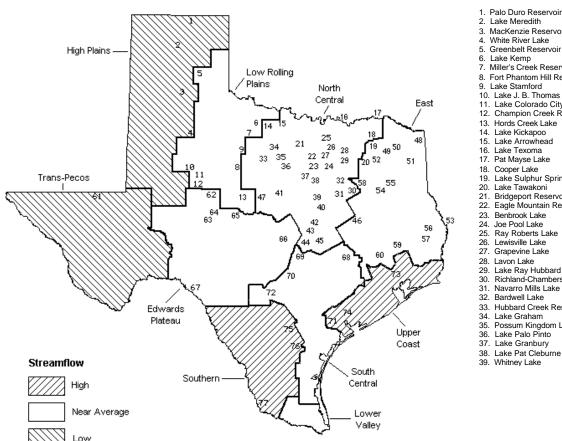
STREAMFLOW

Of 29 reporting index stations in October, computed 31-day mean flows were very high (<5%) at 2 stations, high (5% - 30% exceedance) at 9 stations, near normal (30% - 70%) exceedance) at 8 stations, low (70% - 95% exceedance) at 8 stations, and very low (>95%) at 2 stations. In comparison to September, flows increased at 12 index stations and decreased at

On a regional basis, flows in October were high in the Southern and Upper Coast Regions, low in the Trans-Pecos and High Plains Regions, and near normal everywhere else.

OCTOBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map



- 3. MacKenzie Reservoir
- Greenbelt Reservoir
- Miller's Creek Reservoir
- 8. Fort Phantom Hill Reservoir
- Lake Stamford
- 11 Lake Colorado City
- 12. Champion Creek Reservoir
- 13. Hords Creek Lake
- Lake Arrowhead
- 16. Lake Texoma
- 17. Pat Mayse Lake
- Cooper Lake
- Lake Sulphur Springs
- Lake Tawakoni
- Bridgeport Reservoir Eagle Mountain Reservoir
- Benbrook Lake
- Joe Pool Lake
- Lewisville Lake
- Grapevine Lake

- Lake Ray Hubbard Richland-Chambers Creek Lake
- Navarro Mills Lake
- Bardwell Lake
- 33. Hubbard Creek Reservoir
- Possum Kingdom Lake
- Lake Palo Pinto
- 37. Lake Granbury
- 38. Lake Pat Cleburne
- 39. Whitney Lake

- 40. Waco Lake
- 41. Proctor Lake
- 42. Belton Lake
- 43. Stillhouse Hollow Lake
- 44. Lake Georgetown
- 45. Granger Lake
- 46. Lake Limestone
- 47. Lake Brownwood
- 48. Wright Patman Lake Lake Cypress Springs
- 50 Lake Bob Sandlin
- 51. Lake O' the Pines
- 52. Lake Fork Reservoir
- 53 Toledo Bend Reservoir
- Lake Palestine 55 Lake Tyler
- 56. Sam Rayburn Reservoir
- 57. B. A. Steinhagen Lake
- 58. Cedar Creek Reservoir
- Lake Livingston
- 60 Lake Conroe 61. Red Bluff Reservoir
- 62. E. V. Spence Reservoir 63 Twin Buttes Reservoir
- 64. O. C. Fisher Lake
- O. H. Ivie Reservoir
- 66. Lake Buchanan
- 67. Intl. Amistad Reservoir 68 Somerville Lake
- 69. Lake Travis
- 70. Canyon Lake
- Coleto Creek Reservoir
- 72. Medina Lake
- 73. Lake Houston
- 74. Lake Texana
- 75. Choke Canyon Reservoir
- 76. Lake Corpus Christi
- 77. Intl. Falcon Reservoir

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late September		Late October		
	Map	Capacity	Late Oct. 2003		2003		2002	_	
		(acre-feet)	!	(%)	(acre-feet)	(%)		(%)	
	1		H PLAINS	(- /	(3322 2327)	(, ,	((•)	
Palo Duro Reservoir	1			5	-200	0	-700	-1	
Lake Meredith (Texas)	2	-		30	-4,360	-1	-54,960	-11	
Lake Meredith (Texas)		300,000	140,020	30	-4,500		-34,300	-11	
(Texas and Oklahoma)	(2)	779,560	148,020	19	-4,360	-1	-54,960	-7	
MacKenzie Reservoir	3	•	•	13	-190	0	-2,100	- 5	
White River Lake	4	-	•	19	-360	-1	60	0	
TOTAL	-	639,000		26	-5,110	-1	-57,700	-9	
TOTAL		033,000	103,300	20	3,110	-	37,7700		
LOW ROLLING PLAINS									
Greenbelt Reservoir	5	58,200	23,990	41	-570	-1	800	1	
Lake Kemp	6	319,600	174,430	55	-13,660	-4	-49,570	-16	
Miller's Creek Reservoir	7	27,890	12,600	45	-630	-2	-3,030	-11	
Fort Phantom Hill Reservoir	8	70,030	32,620	47	-1,590	-2	-14,130	-20	
Lake Stamford	9	52,700	33,730	64	-1,630	-3	-7,260	-14	
Lake J. B. Thomas	10	202,300	21,890	11	-170	0	560	0	
Lake Colorado City	11	30,800	21,070	68	-320	-1	4,120	13	
Champion Creek Reservoir	12	41,600	3,550	9	320	1	1,230	3	
Hords Creek Lake	13	8,600	2,610	30	750	9	-20	0	
TOTAL		811,720	326,490	40	-17,500	-2	-67,300	-8	
		NODT	H CENTRAL						
Talas Trialassas	1.4			6 1	2 000		10 110	10	
Lake Kickapoo	14	•		61	-3,880	-4	-	-18	
Lake Arrowhead	15			47	-5,110	-2		-11	
Lake Texoma	16			84	-72,720	-3	-266,700	-10	
Pat Mayse Lake	17	•		85	-3,210	-3	-16,280	-13	
Cooper Lake	18	-		88	-15,930	-6	-33,430	-12	
Lake Sulphur Springs	19	•		90	-160	-1	-1,780	-10	
Lake Tawakoni	20	•		85	-16,000	-2	-113,600	-12	
Bridgeport Reservoir	21	-		65	-15,000	-4	-40,300	-11	
Eagle Mountain Reservoir Benbrook Lake	22 23	•		77	-2,400	-1	-9,200	-5 -4	
		-		82	1,170	1	-3,130		
Joe Pool Lake Ray Roberts Lake	24 25	•		100 92	0 15 510	0 -2	0	0 -6	
Lewisville Lake	26	•		93	-15,510 -28,430	-5	-49,360 -39,250	- 0 - 7	
Grapevine Lake	27	-		86	-6,840	-4	-7,900	-4	
Lavon Lake	28	-		77	-19,780		-	-12	
Lake Ray Hubbard	29								
Richland-Chambers Creek Lake	30			84 95	-19,200 -11,000			-15 0	
Navarro Mills Lake	31			90	1,240	2	-2,770	-5	
Bardwell Lake	32	-		83	1,320	2	1,900	4	
Hubbard Creek Reservoir	33			40	-4,030	-1		-8	
Lake Graham	34	-		52	-1,160	-3		-16	
Possum Kingdom Lake	35			81	-10,200	-2		-6	
Lake Palo Pinto	36			53	-1,390	-5	-9,280	-34	
Lake Granbury	37			98	-500	0	-300	0	
Lake Pat Cleburne	38			83	-450	-2	-40	0	
Whitney Lake	39	-		73	4,590	1	-56,140	-9	
Waco Lake	40			100	5,120	4	-30,140	0	
Proctor Lake	41			92	7,480	13	-4,260	-8	
Belton Lake	42	-		100	19,080	4	4,790	1	
Stillhouse Hollow Lake	43			98	260	0	-5,180	-2	
Lake Georgetown	44	-		68	-1,910	-5	-11,770	-32	
Granger Lake	45			86	-870	-2		-14	
Lake Limestone	46			95	7,000	3	-10,700	-5	
Lake Brownwood	47	-		92	8,570	6	-1,520	-1	
TOTAL	-,	11,908,050		84	-199,850	-2		-8	
					•		•		

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late September		Late October		
	Map	Capacity	Late Oct. 2003		2003		2002		
	İ	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		•		и.		ı			
EAST									
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs	49	66,800	62,730	94	-1,140	-2	-4,070	-6	
Lake Bob Sandlin	50	202,300	182,300	90	-4,800	-2	-20,000	-10	
Lake O' the Pines	51	252,000	227,430	90	-6,510	-3	-15,630	-6	
Lake Fork Reservoir	52	635,200	580,200	91	-12,300	-2	-55,000	-9	
Toledo Bend Reservoir	53	4,472,900	3,485,000	78	-86,000	-2	-154,000	-3	
Lake Palestine	54	411,300	373,440	91	-1,690	0	-1,210	0	
Lake Tyler	55	73,700	69,820	95	-1,680	-2	-3,880	-5	
Sam Rayburn Reservoir	56	2,876,300	2,309,440	80	-132,900	-5	-14,920	-1	
B. A. Steinhagen Lake	57	94,200	87,890	93	6,360	7	-260	0	
Cedar Creek Reservoir	58	637,050	570,700	90	-10,500	-2	-47,600	-7	
Lake Livingston	59	1,750,000	1,735,000	99	3,000	0	-15,000	-1	
Lake Conroe	60	429,900	415,300	97	2,200	1	-3,200	-1	
TOTAL		12,044,350	10,241,950	85	-245,960	-2	-334,770	-3	
	TRANS-PECOS								
Red Bluff Reservoir	61	307,000	50,590	16	130	0	5,660	2	
TOTAL		307,000	50,590	16	130	0	5,660	2	
		EDWY D	DS PLATEAU						
E. V. Spence Reservoir	62			10	-1,380	0	4,930	1	
Twin Buttes Reservoir	63			3	30	0	-1,540	1 -1	
O.C. Fisher Lake	64	•		3	-60	0	-360	0	
O. H. Ivie Reservoir	65			37	11,110	2	-14,890	-3	
Lake Buchanan	66	•		94	50,870	6	-26,140	-3	
Amistad Reservoir (Texas)	67	-		64	183,000	10	413,000	23	
Amistad Reservoir	67	1,771,030	1,130,000	04	163,000	10	413,000	23	
(Texas and Mexico)	(67)	3,151,300	1,467,000	47	233,000	7	517,000	16	
TOTAL		4,008,110		56	243,570	6	375,000	9	
		SOUT	H CENTRAL						
Somerville Lake	68	155,060	153,030	99	1,120	1	-2,030	-1	
Lake Travis	69	1,144,100	970,700	85	10,850	1	-134,500	-12	
Canyon Lake	70	385,600	377,530	98	3,930	1	-8,070	-2	
Coleto Creek Reservoir	71	35,060	32,280	92	380	1	980	3	
Medina Lake	72	254,000	236,600	93	-2,700	-1	-17,400	-7	
TOTAL		1,973,820	1,770,140	90	13,580	1	-161,020	-8	
WDDTD 20127									
- 1			ER COAST		-	_	-	_	
Lake Houston	73	-		100	0	0	0	0	
Lake Texana	74			98	2,910	2	-2,760	-2	
TOTAL		286,760	284,000	99	2,910	1	-2,760	-1	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

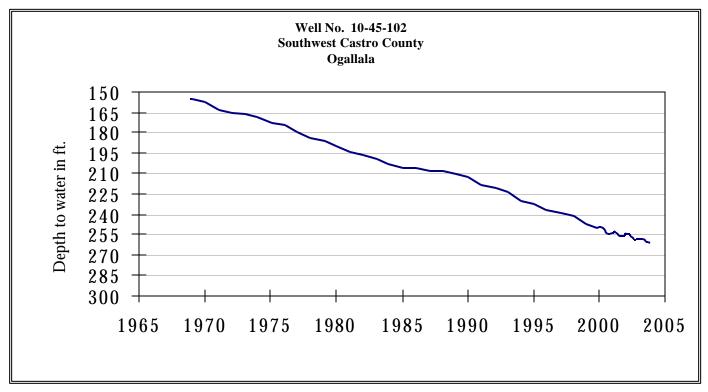
Name of Lake	No.	Conservation	Conservation		Change since		Change since			
or Reservoir	on	Storage	Storage		Late September		Late October			
	Map	Capacity	Late Oct. 2003		2003		2002			
	ĺ	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
SOUTHERN										
Choke Canyon Reservoir	75	695,260	692,000	100	2,000	0	-3,260	0		
Lake Corpus Christi	76	241,240	241,240	100	0	0	780	0		
Falcon Reservoir (Texas)	77	1,555,120	486,000	31	229,000	15	188,000	12		
Falcon Reservoir										
(Texas and Mexico)	(77)	2,653,290	1,080,000	41	495,500	19	420,000	16		
TOTAL		2,491,620	1,419,240	57	231,000	9	185,520	7		
STATE TOTAL		34,470,430	26,471,790	77	22,770	0	-968,070	-3		

Note:

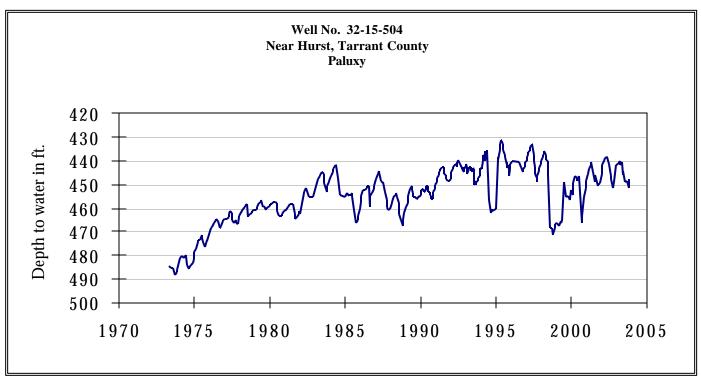
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control storage (above the top of conservation pool or normal maximum operating level), or any water in so called dead storage (in the bottom of the reservoir, below the invert of lowest outlet works and consequently not removable by gravity flow alone.) Percentage of conservation storage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir for date shown. Percent change is given by % Change = 100 * (current conservation storage - past conservation storage)/conservation storage capacity.

Current data are based on elevations near end of month at 77 reservoirs that together represent 98 percent of the total conservation storage capacity of major Texas reservoirs (those with capacity of 5,000 acre-feet or more each). Figures in parentheses for Lake Meredith represent the total conservation storage excluding 58,014 acre-feet of dead storage and are not included in State total. Preliminary figures are shown for the United States' share of conservation storage in International Amistad and International Falcon Reservoirs; the estimates may be subject to revision on completion of international water accounting. Texas (United States' share) and Mexico and are not included in State total.

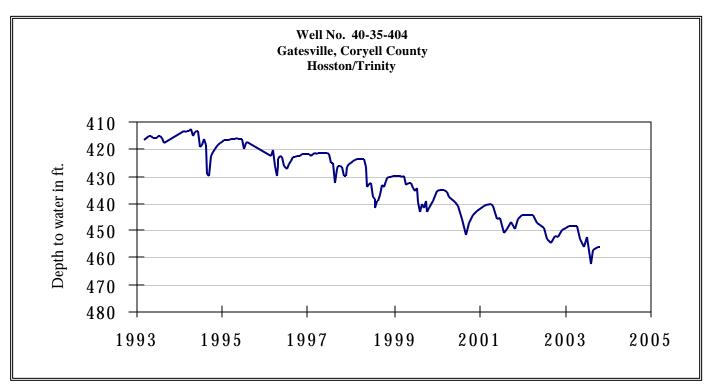
OCTOBER GROUND WATER LEVELS IN OBSERVATION WELLS



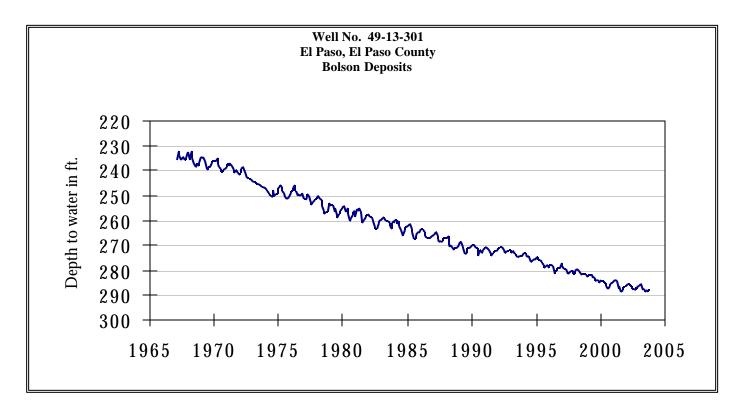
The late October water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 261.00 feet below land surface. This measurement was 0.17 feet below last month's measurement, 2.39 feet below last year's measurement, and 105.00 feet below the initial measurement recorded in 1968.



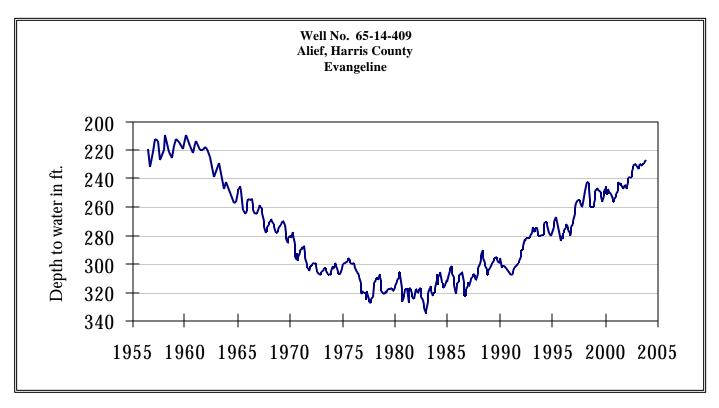
The late October water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 447.90 feet below land surface. This measurement was 3.29 feet above last month's measurement, 1.20 feet above last year's measurement, and 54.51 feet below the initial measurement recorded in 1953.



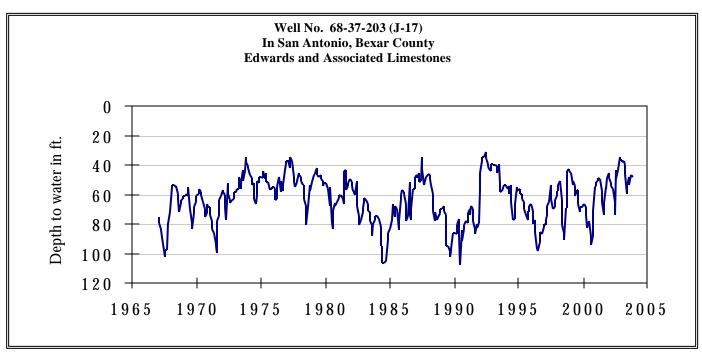
The late October water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 456.00 feet below land surface. This measurement was 0.21 feet above last month's measurement, 3.67 feet below last year's measurement, and 164.00 feet below the initial measurement recorded in 1955.



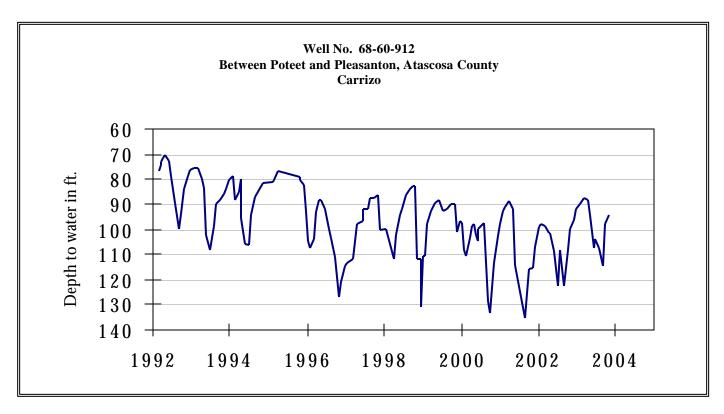
The late October water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.70 feet below land surface. This was 0.52 feet above last month's measurement, 0.52 feet below last year's measurement, and 55.80 feet below the initial measurement recorded in 1964.



The late October water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 227.00 feet below land surface. This was 1.59 feet above last month's measurement, 2.92 feet above last year's measurement, and 123.77 feet below the initial measurement recorded in 1947.

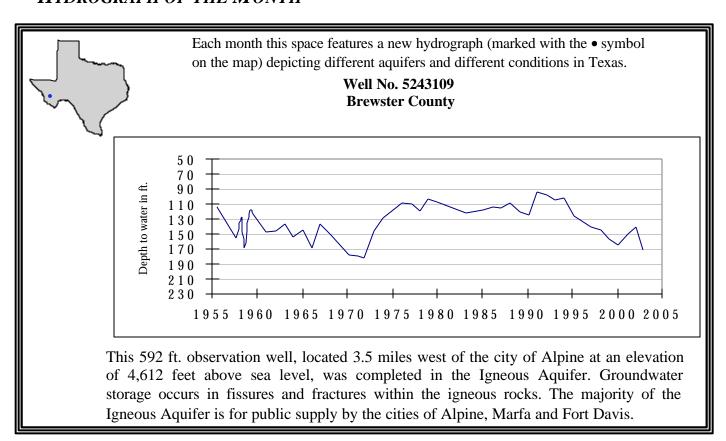


The late October water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 48.40 feet below land surface. This was 1.16 feet below last month's measurement, 13.55 feet below last year's measurement, and 11.22 feet above the initial measurement recorded in 1962.



The late October water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 94.11 feet below land surface. This measurement was 3.63 feet above last month's measurement, 5.65 feet above last year's measurement, and 12.86 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



TEXAS WATER DEVELOPMENT BOARD 1700 N. CONGRESS AVE. P.O. BOX 13231 AUSTIN TX 78711-3231