| | Trotal 1 | 100000000000000000000000000000000000000 | | THE CONTRACT OF |
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| Louints | valuation. County- | valuation. | County- | Valuation. |
| Amierson | \$15,005,068 Gollad | 11:288 407 | *Navarro | 52,804,720 |
| Amirows | 2.216.47SiGonzales | 13 081 068 | Newton | 6,413,400 |
| Annelina | 14,513 040 *Gray 2,614,985 Geayson | 49 90 200 | Nolan Nuccus | 8,370,526 30,217,329 |
| Archer | 11.012 HO GROOM | 5.394.377 | Confittue | 5,080,308 |
| Armstrong | Editonal trimes | 12,448,398 | Aricham | 4.109,325 |
| Almount | 23.242.649 Guadalinin | 15,602,015 | Grange | 16.870,490 |
| Applies | 12,261,550 Hale 3,168,748 Hall | 8 018 800 | "Palo Pinto | 17,192,091 5,008,470 |
| Bandera | 2,625,060) Hamilton | 9,652,490 | Purker | 13,136,061 |
| Bustrup | THE STREET STREET STREET | 2,679,673 | "Farmer | 6,069,225 |
| *Baylor | 6.671.950 Hardenan 8.313.968 *Hardin | 0.002,613 | Poston | 8,030,935 |
| *35-011 | 20,702,750 Harris | 202 018 748 | Potter | 20,014,620 |
| MANAGE ASSESSED | TILION THE *Harrison | 15.707.000 | *Presidio | 0.701,307 |
| Hinney | 2.334.770 Haskell | ++ #. T.I.E. # 1991 | Rains | 3.032,117 |
| Bosque | 2 310 294 11038 | 9 090 900 | Reagan | 1,755,077 |
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| Brazoria | 33, Lan. Sha Themlerson | 9:250,810 | Red River | 13.521,030 |
| Brewster | 10,404,752 *Hidalgo . 8,749,742 Hill | 30 055 040 | *Recyes | 5,107,201 |
| Hrisene | 3,077,248 *Hockley . | 3,356,760 | Roberts | 0.116.192 |
| Brooks | 4.407.828 Hoor Sec. | 2.10. R/B49/212 | Robertson | 12.040,161 |
| Brown | 12,384,517 Hopkins | **** 8.000 ON | Rockwall | 4.658.171 |
| Hurnet | 9,277,287 Honston 7,492,236 Floward | 5,549,805 | Runnels | 12,088,650 7,465,670 |
| Calificell | 15.506.586 Himismeth 1 | | *Sahine | 5,307,990 |
| *Collionn | 4.702.308 Hont | 25.230.070 | San Augustine. | 5,615,578 |
| Callahan Cameron | 7,347 987 Hutchinson 21,975,080 From | 9 708 500 | *San Patricio | 5,106,020 5,688,335 |
| FCHIMIA | 31,6 | | ****** | 8,685,385 |
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| Carles | | \/A A | DODT | 6,007,762 |
| Charabers | SUMMARY | VALUATION RE | PORT | 8,717,500 |
| Cherokee | 30.0 | f Dec. 31, 2015 | | 3,238,963 |
| Clay | as C | 1 Dec. 31, 2013 | | 14,145,051 |
| *Cochean | 1.33 | | | 1,497,020 |
| Coke | Tar | rant County 210 | | 25,864,260 |
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| Comul | The state of the state of the state of | ***** | Anriant | 140,373,810 |
| Concho | 5,230,161 Kimble | 4,230,357 2,345,264 | Terrell | 22,480,535 5,031,917 |
| Cooke | 14.3402.350 Elmnes | 00101 408233T20 | "Terry | 3,420,509 |
| Correll | 10,325,000 Klebers 6,955,975 Knox | 7,670,434 6,818,350 | Threekmorton | 4,380,697 |
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| *Cenekert | 3:33年(40日) 三日市労力 (20) | | CONTRACTOR OF THE PROPERTY OF | T-00 SMOOL TR-611 |
| *Croshy | | 6.211.880 | Travis | 13,260,040 +42,938,097 |
| A LEADING TO BE A REAL PROPERTY OF THE PARTY | 4.16731.800 (Laminuseus) | 6.55407290 | Travis | +42,938,097 6,239,250 |
| *Dulling | 3 Set 000 Fig. Salle | 9,010,200 | Trinity | +42,938,097 6,239,250 6,180,689 |
| Dollas | 3.860,000 1.8 mpasas 3.860,000 1.8 Salle, 16.008,555 1.8 vacu 221,759,500 Lee | 0.540,290 4.448,283 18,059,338 6.781,748 | Trinity Trier Upshur | +42,938,097 6,239,250 6,180,689 5,691,612 1,974,675 |
| Dallas Dawson | 4.073.860 Lampasas 3.808.000 The Salle, 16.008.555 Lavaen 224.750.500 Lee 5.024.000 Leon | 6,540,290 4,448,283 18,059,538 6,781,748 7,686,013 | *Trinity Tyler Upshur Upton Upton | *42,938,097 6,239,250 6,180,880 5,091,612 1,974,675 9,630,467 |
| Dallas Dawson Dear Smith | 4.073.860 Lampasas 3.805.000 La Salle. 16.008.333 Lavaen 224.759.500 Lee 5.024.600 Leon 7.923.523 Liberty | 0.540,290 4.448,283 18.059,538 0.781,748 7,086,013 20.754,682 | Travis *Trinity Trier Upshur Upton Uvalife *Val Verde | -42,938,097 6,239,250 6,780,680 5,691,612 1,974,675 9,630,467 12,420,801 |
| Dollar | 3.808.000 Lampasas 3.808.000 La Salle, 10.008.555 Lavaen 231.750.500 Lee 5.021.000 Leon 7.928.525 Liberts 7.064.000 Liberts 19.025.150 Libertone | 6,540,280 4,348,283 18,059,338 6,781,748 7,086,013 20,754,682 40,283,272 4,008,770 | Trinity "Trinity Urrier Upshur Upton Uvalde "Val Verde Van Zandt | *42,938,097 6,239,250 6,180,689 5,091,612 1,974,675 9,630,467 12,420,891 9,082,416 |
| Dallas Dawson Dear Smith Dalla Benton De Witt | 3.808.000 Lampasas 3.808.000 La Sallo, 16.008.351 Lavaer 224.759.500 Leo 5.024.600 Leo 7.923.523 Liberty 7.064.000 Libecomb 19.923.150 Libecomb 20.234.480 Libecomb | 6.540.230 4.548.285 18.059.538 6.781.748 7,086.010 20.754.682 40.283.272 4.008.770 5.445.755 | Trinity Trier Upshur Upshur Upshur Val Verde Val Verde Victoria *Walker | +42,938,097 6,239,250 6,180,689 5,991,612 1,974,675 11,630,467 12,429,801 9,982,416 8,387,832 8,210,307 |
| Dallas Dallas Dawson Dear Smith Delta Denton De Witt | 3.808,000 *La Sallo, 16.008,551 Lavaen 224,759,500 Lee 5.024,600 Leon 7.923,523 Liberty 7.064,000 *Limestone 19.923,150 Lipscomb 20.234,480 *Lipscomb 4.717,840 *Lipscomb | 0.540,290 4.548,283 18.059,583 6.781,748 7.086,010 20.754,682 40.283,272 4.008,770 5.445,750 6.838,240 | Travis *Trinity Trior Upshur Upton Uvalie *Val Verde. Van Zamit Victoria *Walker *Walker | -42,938,097 6,239,250 6,180,889 5,891,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 |
| Dallas Dallas Davison Dear Smith Delta Dinton Dinton Dickens Dimmit | 3.808.000 *La Salle. 3.808.000 *La Salle. 16.008.552 Lavaen 234.750.500 Lee 5.024.000 Leon 7.923.525 Liberty 7.064.000 *Limestone 19.025.150 Lipecomb 20.334.480 *Live Onk 4.777.840 *Liano 5.036.358 *Loving 6.284.110 Lubbock | 6.540.280 4.348.283 18.059.388 0.781.748 7.086.013 20.754.682 40.283.272 4.008,770 5.445.753 0.318,240 5.63.064 | Trinity "Trinity Trier Upshur Upton Uvalue "Val Verde Vintoria "Walker "Waller Ward Ward | +42,938,097 0,239,250 0,180,680 5,091,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 |
| Dallas Dawson Dear Smith Dolta Benton Le Witt Dickens Dimnit Donley Duval | 3.808.000 Lampasas 3.808.000 La Sallo, 10.008.555 Lavaen 5.024.000 Leo 7.928.528 Liberty 7.024.000 Lion 7.928.528 Liberty 7.024.000 Lion 19.923.158 Liberty 20.254.480 Liberonb 20.254.480 Liberonb 5.036.358 Liavae 6.284.110 Lubbock | 6.540.290 4.748.283 18.059.538 6.781.748 7.086.010 20.754.682 40.283.272 4.008.770 6.338.240 563.964 15.508.509 | Trinity "Trinity "Trier Upshur Upton Uvalde "Val Verde Van Zamit "Wictoria "Walker "Waller Ward Ward Washington Webb | +42,938,097 6,239,250 6,180,689 5,991,612 1,974,675 9,630,467 12,429,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,905,300 16,641,930 |
| Dallas Dallas Davison Dear Smith Delta Denton Lie Witt Dickens Diminit Donley Duval Eastland | 3.808.000 Lampasas 3.808.000 La Sallo, 16.008.351 Lavaen 224.759.500 Leo 5.024.600 Leo 7.923.523 Liberty 7.064.000 Libecomb 19.923.150 Libecomb 20.334.480 Libecomb 4.777.840 Libecomb 5.036.358 Laving 6.284.110 Lubbock 7.674.675 Lynn 38.417.650 Mindison | 6,540,290 4,748,283 18,059,538 7,086,010 20,754,682 40,283,272 4,908,770 5,445,755 0,338,240 563,964 15,508,505 5,417,742 4,456,740 | Travis *Trinity Trior Upshur Upshur Upton Uvalie *Val Verde Van Zamit Victoria *Walker *Walker *Walker Ward Washington Webb | +42,938,097 0,239,250 0,180,680 5,891,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,005,300 16,641,930 15,540,290 |
| Dallas Dallas Davison Dear Smith Delta Donton Die Witt Dickens Dimmit Donieg Duval Easthand *Ector | 3.808.000 *La Salle. 16.008.552 Lavaen 234.750.500 Lee 5.024.600 Leon 7.923.525 Liberty 7.064.000 *Limestone 19.025.150 Lipecomb 20.234.480 *Live Onk 4.777.840 *Limestone 6.284.130 Libecok 7.671.675 Lynn 38.417.580 *Mindison 4.520.145 Martin | 6,540,280 4,348,285 18,059,388 0,781,748 7,086,013 20,754,682 40,08,770 5,445,753 0,338,240 10,508,605 5,417,542 4,456,740 2,503,745 | Trinity "Trinity "Trinity "Trinity "Trinity "Trinity "Trinity "Trinity "Trinity "Uptor "Valide "Valide "Valide "Valide "Van Zandt Victoria "Walker | *42,938,097 0,239,250 0,180,689 5,091,612 1,974,675 9,630,467 12,420,801 9,082,416 8,387,832 8,210,307 5,693,255 5,631,344 11,905,300 16,641,930 15,540,290 4,622,174 |
| Dallas Dallas Dawson Dear Smith Dolta Bonton De Witt Dickens Dimnit Donley Duval Eastland *Ector Edwards Elilis | 3.808.000 Lampasas 3.808.000 La Sallo, 10.008.555 Lavaen 224.750.500 Leo 7.928.525 Liberty 7.064.000 Limestone 39.923.150 Liberty 20.334.480 Libre Onk 4.777.830 Libre Onk 4.777.830 Libre Onk 4.777.830 Libre Onk 3.8417.650 Marion 2.027.752 Marion 4.520.145 Marion 4.520.145 Marion 3.7.250.700 Marion | 6.540.280 4.348.283 18.059.388 6.781.748 7.086.013 20.754.682 40.283.279 4.008,770 6.345.753 6.345.753 6.347.542 4.5508,695 6.417.542 4.450.740 3.811.575 2.553.783 | Travis *Trinity Trier Upshur Upton Upton Valie *Val Verde Van Zamit Victoria *Walker *Walker Ward Washington Wharton Wheeler Wichita Wilbarmer | *42,938,097 6,239,250 6,180,689 5,991,612 1,974,675 9,630,467 12,429,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,905,300 16,641,930 15,540,290 4,622,174 67,820,600 15,855,402 |
| Dallas Dallas Dawson Dear Smith Delta Dienton De Witt Dickens Dimmit Dunies Duval Bastland *Ector *Edwards Ellis *El Paso | 3.808.000 Lampasas 3.808.000 La Sallo, 10.008.555 Lavaen 224.750.500 Lee 5.024.000 Leon 7.928.523 Liberty 7.064.000 Linestone 19.923.156 Linestone 19.923.156 Linestone 29.323.180 Linescomb 20.334.80 Linescomb 4.777.840 Linescomb 5.036.358 Lines 4.777.840 Linescomb 2.324.176.50 Linescomb 38.417.580 Linescom 38.417.580 Marion 2.327.752 Marion 2.327.753 Marion 37.250.700 Mason 76.512.321 Mathagords | 6.540.290 4.348.283 18.059.538 6.781.748 7.086.018 20.754.682 40.283.270 4.908.770 6.338.240 6.338.240 6.350.763 6.447.542 4.450.740 3.811.575 2.553.785 5.8850 20.007.880 | Trinky "Trinky Trinky Trinky Trinky Trinky Trinky Trinky Trinky Trinky Upshur Upshur Upshur Uvalde *Val Verde Van Zamit Victoria *Walker *Walker *Walker Ward Washington Wesh Wharton Wheeler Wichita Wilburger *Willney | +42,938,097 0,239,250 0,180,689 5,091,612 1,974,675 9,630,467 12,429,891 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,005,300 16,641,930 15,540,250 4,622,174 07,820,600 15,855,402 4,925,756 |
| Dallas Dallas Davison Dear Smith Delta Denton Die Witt Dickens Dimuit Donley Duval Eastland *Ector *Edwards Eills *Sil Paso. | 3.860.000 Lampasas 3.860.000 La Salle, 10.008.555 Lavaen 224.759.500 Lee 5.024.600 Lee 7.064.000 Limestone 19.923.480 Lipecomb 20.334.480 Lipecomb 4.777.840 Lipecomb 5.036.358 Loving 6.284.110 Lubbock 7.677.676 Lynn 38.417.680 Martin 2.227.752 Martin 4.520.145 Martin 37.250.700 Mason 76.512.321 Matmords 12.068.950 Mavories | 6,540,280 4,348,283 18,079,738 0,781,748 7,086,013 20,754,682 46,283,272 4,908,770 5,445,753 0,338,240 5,63,964 15,508,505 5,417,542 4,456,740 2,553,783 2,553,783 2,600,885 6,428,886 6,428,886 | Trinity "Trinity Trinity Trini | +42,938,097 0,239,250 0,180,689 5,091,612 1,974,675 9,630,467 12,429,891 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,905,300 16,641,930 15,510,290 4,622,174 67,820,600 15,855,402 4,929,736 31,717,840 |
| Dallas Dallas Dawson Dear Smith Delta Benton De Witt Dekens Dimuit Donley Duval Eastland *Retor *Edwards Ellis *El Paso Erath Falls Pannin | 3.808.000 Lampasas 3.808.000 La Sallo, 16.008.352 Lavaen 5.024.000 Leon 7.923.525 Liberty 7.064.000 Liberty 7.064.000 Liberty 20.334.480 Libertone 19.920.150 Libertone 20.334.480 Libertone 5.036.358 Laboock 7.777.839 Laboock 7.671.676 Lyon 38.417.580 Maddison 2.227.752 Marion 4.529.145 Martin 37.250.700 Mason 76.512.321 Matswords 12.168.550 Matswords 19.275.390 Motoriek 19.275.390 Motoriek 19.275.390 Motoriek 19.275.390 Motoriek 19.275.390 Motoriek | 6.540.280 4.348.283 18.059.388 6.781.748 7.086.013 20.754.682 40.283.279 4.008,770 6.345.753 6.345.753 6.3417.542 4.450.740 3.811.575 2.553.783 6.328,850 20.007,880 6.428,381 6.428,381 6.752,410 | Trinity Trinity Trinity Trinity Trinity Under Upon Uvalue Val Verde Van Zanut Victoria *Walker *Walker *Walker Washington Webb Wharton Wheeler Wichita Wilbarger *Williamson Wilson Winkler | *42,938,097 6,239,250 6,180,689 5,091,612 1,974,673 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,005,300 16,641,930 4,622,174 67,820,600 15,855,402 4,929,736 31,717,840 9,030,218 820,010 |
| Dallas Dallas Dawson Dear Smith Delta Benton De Witt Dickens Dimmit Donley Duval Eastland *Ector *Edwards Ellis *El Paso Erath Falls Fannin | 3.868.000 *La Salle, 16.008.331 Lavaen 224.759.500 Lee 5.024.600 Leon 7.923.523 Liberts 7.064.000 *Limestone 19.923.480 *Linestone 20.334.480 *Linestone 20.334.480 *Linestone 3.036.338 *Lavang 6.284.130 Lubbock 7.671.675 Lynn 38.417.680 *Muddison 2.227.752 Martin 2.227.752 Martin 37.250.700 Mason 76.512.321 Matmords 19.255.300 Medulloen 19.275.300 Medulloen 19.264.455 Medulloen 19.164.455 Medulloen | 6,540,280 4,348,283 18,059,538 0,781,748 7,086,010 20,754,682 46,283,272 4,008,770 5,445,753 0,338,240 563,963 15,508,505 5,417,542 4,450,740 3,811,575 2,553,785 5,858,850 20,007,880 6,428,381 9,257,351 66,752,410 3,045,663 | Travis *Trinity Trinity Trior Upshur Upton Uvalde *Val Verde Van Zamit Victoria *Walker *Walker *Walker Washington Wesh Wichita Wilburger *Williamson Wilson Winkler Winkler | +42,938,097 6,239,250 6,180,680 5,891,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,005,300 16,641,930 4,622,174 67,820,600 15,855,402 4,029,736 31,717,840 9,030,218 820,010 18,048,602 |
| Dallas Dallas Dallas Dawson Dear Smith Delta Donton Die Witt Dickens Dimuit Donier Duval Eastland *Ector *Edwards Eills *Sil Paso. Erath Falla Pannin Fayette Pisher | 3.866.000 Lampasas 3.866.000 Lawren 16.008.55; Lavren 224.759.500 Lee 5.024.600 Lee 7.235.525 Liberts 7.064.000 Liberts 7.064.000 Liberts 7.064.000 Liberts 7.064.000 Liberts 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.000 1.066.00 | 6,540,280 4,348,283 18,079,738 0,781,748 7,086,013 20,754,682 46,283,272 4,908,770 5,445,753 0,338,240 5,417,542 4,456,740 3,811,575 2,553,783 5,858,850 20,007,880 6,428,850 20,007,880 6,428,850 20,007,880 6,428,850 10,257,351 60,752,410 3,045,603 11,927,830 | Travis *Trinity Trinity Trinity Upshur Upshur Upton Uvalde *Val Verde Van Zamit Victoria *Walker *Walker *Walker Washington Webb Wharton Wheeler Wichita Wilbarger *Willney Williamson Wilson | *42,938,097 0,239,250 0,180,689 5,091,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,905,300 16,641,930 15,510,290 4,622,174 67,820,600 15,855,402 4,929,736 31,717,840 9,930,218 820,010 13,048,602 8,108,882 |
| Dallas Dallas Dawson Dear Smith Dolta Bonton Die Witt Blekens Dimuit Donley Duval Easthand *Retor *Edwards Ellis *El Paso Erath Falla Pannin Fayette Pisher Flard | 3.808.000 Lampasas 3.808.000 Lawara 16.008.352 Lawara 5.024.000 Leon 7.923.525 Liberty 7.064.000 Librestone 19.022.150 Librestone 19.022.150 Librestone 19.023.1480 Librestone 19.023.1480 Librestone 6.284.140 Laboock 7.671.676 Lynn 38.417.580 Martin 37.250.700 Mason 76.512.321 Mathacords 19.255.350 Mathacords 19.255.350 Mathacords 19.255.350 Mathacords 19.264.455 Mediana 19.164.455 Mediana 19.241.800 Mediana 19.241.800 Memord 18.82.287 Midland 18.82.287 | 6.540.280 4.348.283 18.059.738 6.781.748 7.086.013 20.754.682 4.008,770 5.445.753 6.388,240 5.63.063 5.417.542 4.456,740 2.553.785 6.328,850 2.007.880 6.329.381 9.257,341 9.257,341 9.257,341 9.257,341 9.358,850 20.007.880 11.027.890 8.0427.840 8.0427.840 8.0427.840 8.0427.840 8.0427.840 8.0427.840 | Trinty Trinty Trinty Trior Upshur Upton Upton Valie *Val Verde Van Zamit Victoria *Walker *Walker *Walker Washington Wharton Wheeler Wichita Withinger *Williamson Williamson Williamson Winkler Wise Wood Toakum Young | *42,938,097 0,239,250 0,180,680 5,891,612 1,974,675 9,630,467 12,420,801 9,982,416 8,387,832 8,210,307 5,693,255 3,631,344 11,005,300 16,641,930 4,622,174 67,820,600 15,540,290 4,029,736 31,717,840 9,030,218 820,010 13,048,602 8,108,882 1,781,406 15,159,400 |
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Actuarial certification: Dec. 31, 2015

Milliman has performed an actuarial valuation of the retirement plan as of Dec. 31, 2015. This valuation reflects the benefit provisions and contribution rates in effect as of Jan. 1, 2016. In preparing this valuation, we relied without audit on information (some oral and some written) supplied by the TCDRS staff. This information includes, but is not limited to, statutory provisions, employee data and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete, our results may be different and our calculations may need to be revised.

This report is a summary of the valuation results for your plan. Additional system-wide results are provided in the TCDRS Comprehensive Annual Financial Report (CAFR) and the actuarial valuation report for all of TCDRS.

All costs, liabilities, rates of interest and other factors for TCDRS have been determined on the basis of actuarial assumptions and methods that are reasonable (taking into account the experience of TCDRS and reasonable expectations); and which, in combination, offer a reasonable estimate of anticipated experience affecting TCDRS. While the valuation results are based on assumptions that are reasonable both individually and in the aggregate, there may be other reasonable assumption sets that will produce different results. The TCDRS Board of Trustees has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Section 4 of this report.

This report is an estimate of your plan's financial condition as of a single date and is not intended to predict your plan's future condition or guarantee future financial soundness. Actuarial valuations only affect the timing of contributions, not the ultimate cost of benefits.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; increases or decreases

Mark C. Olleman, FSA, EA, MAAA Consulting Actuary, Milliman Inc. expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

Actuarial computations presented in this report are for purposes of determining the recommended funding amounts for TCDRS. GASB financial accounting requirements are provided in a separate document and differ from those disclosed in this report. The calculations in the enclosed report have been made on a basis consistent with our understanding of TCDRS's funding policy. Determinations for other purposes may be significantly different from the results contained in this report. Accordingly, additional determinations may be needed for other purposes.

Milliman's work is prepared solely for the internal business use of TCDRS. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to the participating employers or any other third party recipient of its work product. Milliman does not authorize the inclusion of Milliman's name or reports in any offering, memorandum, prospectus, securities filing, or solicitation of investment. Any third party recipient should engage qualified professionals for advice appropriate to its own specific needs. The consultants who worked on this report are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. We respectfully submit the following report. If you have any questions, please contact TCDRS and they will either provide additional information or forward your request to us.

Nick Collier, ASA, EA, MAAA

Consulting Actuary, Milliman Inc.

Tarrant County, #319 Actuarial valuation results for your TCDRS plan as of Dec. 31, 2015

INTRODUCTION

This report summarizes the major findings of the valuation for your retirement plan and reflects your benefit provisions in effect as of Jan. 1, 2016.

Much of the material contained in this report is intended to provide information to other actuaries to help comply with actuarial standards of practice. In particular, if an independent review is conducted by another actuary, the report provides information on the methods and calculations to aid the actuary in reviewing and verifying study results. More information can be found in TCDRS' Comprehensive Annual Financial Report for the year ended Dec. 31, 2015.

CHANGES REFLECTED IN THE VALUATION

There were several changes reflected in this year's valuation that applied to all employers:

- The TCDRS Board of Trustees adopted updated annuity purchase rates which reflect increasing life expectancies. The new rates are effective for deposits in 2018 and later. The Board also adopted new mortality assumptions for use in this valuation which are consistent with the projected increases in life expectancies.
- Legislation enacted in 2015 and effective in 2017 substantively removes the cost-sharing aspects that currently exist for TCDRS employers. Under the law currently in effect, when a member retires, assets are transferred to a system-wide fund and the associated benefit is paid from the system-wide fund. Under the law that will be in effect in 2017, there will be no transfer at retirement, and the payment of the retiree's benefits will remain solely with the employer.
- When determining the actuarial value of assets, rate stabilization techniques were used to offset increases and decreases in liabilities due to changes in assumptions and methods, while staying within the five-year smoothing period established by the board's funding policy. The rate stabilization techniques are described in the explanation of the Actuarial Value of Assets in Section 4.

IMPACT OF DEFERRED INVESTMENT LOSSES

The actuarial valuation recognizes investment gains and losses over 5 years to avoid single-year rate spikes. The required contribution rates are projected to increase over the next several years as the 2015 investment losses are recognized. A market recovery could mitigate some of the future increases, or conversely, lower-than-expected future investment returns could further increase rates.

Since costs are projected to rise for the next several years, it is important to weigh any benefit enhancements carefully. Benefit increases, such as matching rate increases and cost-of-living adjustments for retirees, will also cause required rates to increase.

SCOPE OF THE REPORT

This report presents the results of the actuarial valuation for your TCDRS retirement plan. The report consists of four sections:

- Section 1 is a summary of the actuarial valuation results as of the valuation date Dec. 31, 2015 for your plan.
- Section 2 includes a summary of your member and benefit recipient data, and a summary of your plan assets.
- Section 3 is a summary of the plan provisions.
- Section 4 is a summary of the actuarial methods and assumptions.
- Section 5 includes a brief glossary of terms used in this report.

Actuarial valuation results for your TCDRS plan as of Dec. 31, 2015

RATES EFFECTIVE 2017

The following shows some key results of the actuarial valuation as of Dec. 31, 2015. For comparison purposes, the results of the prior valuation, after reflecting any plan changes effective Jan. 1, 2016, are also shown. Please refer to the bottom of the section titled "Your Costs" in the Retirement Plan Assessment for an analysis of what caused the changes in your contribution rate.

Employer Name: Tarrant County

Employer Number: 319

| Plan Assets & Liabilities | Dec. 31, 2015 | Dec. 31, 2014 |
|--|-----------------|-----------------|
| 1. Present value of future benefits: | | |
| Benefit recipients | \$214,998,675 | \$185,919,946 |
| Members | \$1,149,265,618 | \$953,473,880 |
| Total | \$1,364,264,293 | \$1,139,393,826 |
| 2. Present value of future normal cost contributions | \$299,601,580 | \$145,245,544 |
| 3. Actuarial accrued liability (line 1 – line 2) | \$1,064,662,713 | \$994,148,282 |
| 4. Actuarial value of assets | \$866,862,594 | \$822,369,694 |
| 5. Unfunded/(Overfunded) actuarial accrued liability | | |
| [UAAL/(OAAL)] (line 3 – line 4) | \$197,800,119 | \$171,778,588 |
| 6. Funded ratio (line 4 / line 3)* | 81.4% | 82.7% |
| 7. Effective amortization period (in years)** | 8.3 | 7.9 |
| Retirement Plan Funding | 2017*** | 2016**** |
| Normal cost rate | 7.37% | 7.72% |
| UAAL/(OAAL) rate | 6.91% | 6.46% |
| Required rate | 14.28% | 14.18% |
| Elected rate | 17.50% | 17.50% |
| Retirement plan rate (greater of required or elected rate) | 17.50% | 17.50% |

Please refer to the Actuarial Glossary for additional information on the terms used above.

^{*} The funded ratio assumes on-going TCDRS plan participation. The funded ratio does not represent the financial status for a terminating plan.

^{**} This is the period it would take for the UAAL to be fully paid down assuming the required rate shown is paid each year in the future and all future experience emerges exactly

^{*** 2017} rates assume you do not make any plan changes and that you continue your elected rate, if any, currently in effect for 2016.

^{****} These rates reflect plan changes effective Jan. 1, 2016.

Unfunded Actuarial Accrued Liability (UAAL)

If a plan has a UAAL (i.e., the Actuarial Accrued Liability exceeds the Actuarial Value of Assets), this does not indicate that the plan is insufficiently funded or is behind in making required contributions. All TCDRS employers pay 100% of their required rate. Just by paying the required rate, the employer is funding the existing UAAL over a closed period of 20 years or less.

The UAAL represents the estimated amount needed to fully fund benefits attributable to service already rendered by employees. Most new plans begin with a UAAL. The UAAL will increase when a plan adopts benefit increases attributable to past service, like a cost-of-living adjustment (COLA) for retirees. Actuarial gains and losses (for example, investment returns either greater than or less than the assumed rate of return) and changes in actuarial assumptions will also affect the UAAL.

UAAL Contribution Rate and Explanatory Notes

Amortization payments are based on a fixed schedule that increases by the payroll growth assumption each year. Amortization payments are adjusted from Dec. 31 amounts to reflect that actual contributions are made on a monthly basis.

| Date Established | Description | Remaining Period as of Dec. 31, 2016 | 2017 Amortization Payment |
|---------------------|--------------|--|------------------------------|
| Dec. 31, 2008 | Initial UAAL | 13 Years | \$13,152,445 |
| Dec. 31, 2008 | Plan Change | 8 Years | \$31,075 |
| Dec. 31, 2009 | UAAL Layer | 14 Years | (\$295,969) |
| Dec. 31, 2009 | Plan Change | 9 Years | \$801,106 |
| Dec. 31, 2010 | UAAL Layer | 15 Years | \$1,195,284 |
| Dec. 31, 2011 | UAAL Layer | 16 Years | \$1,326,839 |
| Dec. 31, 2011 | Plan Change | 11 Years | \$285,197 |
| Dec. 31, 2012 | UAAL Layer | 17 Years | \$1,075,700 |
| Dec. 31, 2013 | UAAL Layer | 18 Years | (\$766,561) |
| Dec. 31, 2013 | Plan Change | 13 Years | \$239,472 |
| Dec. 31, 2014 | UAAL Layer | 19 Years | (\$977,089) |
| Dec. 31, 2015 | UAAL Layer | 20 Years | \$2,094,605 |
| | | Total Amortization Payment: | \$18,162,104 |
| | | Projected Payroll: | \$262,915,618 |
| | | UAAL Contribution Rate (Amortization as % of Payroll): | 6.91% |

UAAL Amortization and Explanatory Notes

UAAL amortization payments (see column C below) are based on a fixed schedule that increases by the payroll assumption each year. The assets and liabilities used in the calculation of the UAAL are as of Dec. 31, 2015, but the contribution rates are not effective until Jan. 1, 2017. Therefore, the UAAL is adjusted to Dec. 31, 2016 in the calculation of the contribution rate.

TCDRS does not charge any fees to employers, and employers are not assessed an interest fee on the UAAL. The "Adjustment Due to Decrease in Discount Period" (see column B below) shows the impact of one-year's passage of time and reflects anticipated future returns on investments. During this period, both employer assets and liabilities are projected to grow at the same rate of interest (also referred to as the discount rate). The discount rate used in this calculation is 8%. Lowering the discount rate would increase employer contribution rates.

The amortization of the Dec. 31, 2015 UAAL Layer does not begin until Dec. 31, 2016; however, the UAAL amount is adjusted based on the expected 2016 UAAL contributions.

| Date Established | Description | Balance as of Dec. 31, 2015 (A) | Adjustment Due to Decrease in Discount Period (B) | Amortization Payment on Dec. 31, 2016 (C) | Balance as of Dec. 31, 2016 (A) + (B) – (C) |
|---------------------|-------------------------|---------------------------------------|--|--|---|
| Dec. 31, 2008 | Initial UAAL | \$133,795,660 | \$10,703,653 | \$13,411,419 | \$131,087,894 |
| Dec. 31, 2008 | Plan Change | \$224,087 | \$17,927 | \$31,687 | \$210,327 |
| Dec. 31, 2009 | UAAL Layer | (\$3,164,815) | (\$253,185) | (\$301,797) | (\$3,116,203) |
| Dec. 31, 2009 | Plan Change | \$6,292,605 | \$503,408 | \$816,878 | \$5,979,135 |
| Dec. 31, 2010 | UAAL Layer | \$13,377,315 | \$1,070,185 | \$1,218,821 | \$13,228,679 |
| Dec. 31, 2011 | UAAL Layer | \$15,483,751 | \$1,238,700 | \$1,352,966 | \$15,369,485 |
| Dec. 31, 2011 | Plan Change | \$2,584,762 | \$206,781 | \$290,812 | \$2,500,731 |
| Dec. 31, 2012 | UAAL Layer | \$13,045,716 | \$1,043,657 | \$1,096,882 | \$12,992,491 |
| Dec. 31, 2013 | UAAL Layer | (\$9,633,032) | (\$770,643) | (\$781,655) | (\$9,622,020) |
| Dec. 31, 2013 | Plan Change | \$2,436,077 | \$194,886 | \$244,188 | \$2,386,775 |
| Dec. 31, 2014 | UAAL Layer | (\$12,689,644) | (\$1,015,172) | (\$996,330) | (\$12,708,486) |
| Dec. 31, 2015 | UAAL Layer | \$36,047,637 | \$2,883,811 | \$10,776,138 | \$28,155,310 |
| UA | AL as of Dec. 31, 2015: | \$197,800,119 | - | | |

SECTION 2 Additional plan information

| Members | Dec. 31, 2015 | Dec. 31, 2014 |
|-------------------------------------|---------------|---------------|
| Number of members: | 6,161 | 6,022 |
| Number of depositing members: | 4,423 | 4,430 |
| Average monthly salary: | \$4,672 | \$4,514 |
| Average age: | 45.56 | 45.64* |
| Average length of service in years: | 10.03 | 10.10* |

^{*}Amounts are simple averages. They differ from the prior year's report, which presented age and service averages weighted by pay.

Benefit Recipients

| Number of benefit recipients: | 2,334 | 2,206 |
|-------------------------------|---------|---------|
| Average monthly benefit: | \$2,176 | \$2,111 |

Plan Assets

| Employees Saving Fund (ESF) | | Subdivision Accumulation Fund (SAF) | | |
|--|---------------|-------------------------------------|----------------|--|
| This is the total sum balance of your members' accounts. | | This is your employer account. | | |
| Balance as of Jan. 1, 2015 \$298,066 | | Balance as of Jan. 1, 2015 | \$524,329,295 | |
| Additions: | | Additions: | | |
| Member deposits | \$17,820,375 | Employer contributions | \$44,416,066 | |
| Partial-year interest | \$699,661 | Allocated net gain/(loss) | (\$27,789,453) | |
| Annual interest | \$19,329,765 | Endowment fund transfers | \$0 | |
| Deductions: | | Deductions: | | |
| Transfers to the CSARF | | Transfers to the CSARF | | |
| (retirement trust fund) | \$21,671,136 | (retirement trust fund) | \$21,636,556 | |
| Withdrawals | \$3,196,599 | Retirement allowances | \$22,856,377 | |
| Net escheatments | \$0 | Other transfers: | \$0 | |
| Fund balance as of Dec. 31, 2015 | \$311,048,228 | Fund balance as of Dec. 31, 2015 | \$496,462,975 | |

ACTUARIAL VALUE OF ASSETS

The assets used in the valuation are adjusted to reduce volatility in contribution rates by the application of a smoothing method. These smoothed assets are referred to as the actuarial value of assets. The method used to determine the actuarial value of the Subdivision Accumulation Fund is described in the Actuarial Methods section of Section 4.

Development of Actuarial Value of Assets

| Subdivision Accumulation Fund (SAF) balance | \$496,462,975 |
|--|----------------|
| 2) Total unrecognized actuarial asset gain/(loss) in SAF (see below) | (\$59,351,391) |
| 3) Actuarial value of SAF* (Line 1 – Line 2) | \$555,814,366 |
| 4) Employees Saving Fund (ESF) balance | \$311,048,228 |
| 5) Actuarial value of assets* (Line 3 + Line 4) | \$866,862,594 |

Development of Unrecognized Actuarial Asset Gain/(Loss) in SAF

| Year Ended | Actuarial Asset Gain/(Loss) for Year | | Percent Excluded | | Gain/(Loss) Excluded |
|-------------------|---|--------------|--------------------------|---|-------------------------|
| December 31, 2012 | \$31,403,008 | Χ | 20.00% | | \$6,280,602 |
| December 31, 2013 | \$19,369,753 | Χ | 40.00% | | \$7,747,901 |
| December 31, 2014 | (\$17,154,321) | Χ | 60.00% | | (\$10,292,593) |
| December 31, 2015 | (\$78,859,126) | Χ | 80.00% | | (\$63,087,301) |
| | Total Unrecognized A | ctuarial Ass | set Gain/(Loss) in SAF * | = | (\$59,351,391) |

Development of Current Year Actuarial Asset Gain/(Loss) in SAF

| Prior year Subdivision Accumulation Fund (SAF) balance | \$524,329,295 |
|---|----------------|
| 2) Expected interest (8% x Line 1) | \$47,189,637 |
| 3) SAF cash flow (contributions – benefit payments + net transfers) | (\$76,867) |
| 4) Expected SAF balance* (Line 1 + Line 2 + Line 3) | \$571,442,065 |
| 5) Actual SAF balance | \$496,462,975 |
| 6) Current year actuarial asset gain/(loss) in SAF* (Line 5 – Line 4) | (\$74,979,089) |
| 7) Immediate recognition of gain/(loss) in current year | \$3,880,037 |
| 8) Current year gain/(loss) to be recognized over five years* (Line 6 – Line 7) | (\$78,859,126) |

^{*} Small differences may occur due to the rounding of numbers.

Plan Provisions

PLAN PROVISIONS

The following description reflects your plan as of January 1, 2016. No future plan provision changes are assumed for purposes of this valuation. Future plan provision changes may be adopted by the plan but are not reflected in these valuation results.

Membership

All full- and part-time employees must participate in TCDRS, regardless of the number of hours they work in a year or their age. Only those employees who are classified as "temporary" are excluded from enrollment.

Termination of Membership

TCDRS membership is terminated by death, retirement, withdrawal of account balance from the plan or attainment of the age under which distribution must occur under federal law.

Employee Deposits

TCDRS is a savings-based plan. Every paycheck, a portion of each employee's pay — from 4% to 7% as set by the employer — is deposited into their TCDRS account. Your employees' current deposit rate is 7.00%. By law, employee accounts earn 7% interest annually.

Service

Employees receive a month of service for each month that they make a deposit into their account. Service may also be granted for periods of employment prior to the employer joining TCDRS and for military or certain other service.

Within TCDRS, all periods of service with any TCDRS participating employer are generally combined. Also, service periods with other Texas public retirement plans participating with TCDRS in the Texas Proportionate Retirement Program are combined to satisfy TCDRS retirement eligibility and vesting requirements.

Eligibility Requirements

Service Retirement Benefits

The amount of service an employee needs to earn a future benefit is called the vesting requirement. When an employee is vested he or she has the right to a monthly benefit at age 60 or older. Employers may choose 5-, 8- or 10-year vesting. The vesting requirement for your employees is 8 years of service. In addition, employees may retire before age 60 if they meet one of the following requirements, set by the employer:

- "Rule of" eligibility Under these rules, a vested employee can retire if their age plus years of service time add up to at least 75 or 80. Your plan requirement is Rule of 75.
- 20-year or 30-year retirement at any age This lets employees retire when they have at least 20 or 30 years of service time. Your plan requirement is 30 years of service.

Retirees elect to receive their lifetime benefit by choosing from one of seven actuarially equivalent payment options.

Disability Retirement Benefits

A member who is vested and who is totally and permanently disabled is eligible for a disability retirement benefit. A member who is not vested is eligible for disability retirement benefits if the total and permanent disability was a result of an on-the-job injury.

Survivor Benefits

Benefits are payable to the beneficiaries or estate of a deceased member. The eligibility requirement for an employer-provided survivor benefit is four years of TCDRS service. Otherwise the survivor benefit is the deceased member's account balance.

Determination of Retirement Benefits

Employer Matching Rate

A member's retirement benefit is calculated based on the employee's account balance and the employer matching. The current employer matching rate for future deposits is 200% for your employees. The employee's account balance with employer matching is converted to an annuity at retirement and then he or she receives a payment every month for the rest of his or her life.

Payment Options

Retirees elect to receive their monthly lifetime benefit by choosing from one of the following seven actuarially equivalent payment options.

- Single Life option Monthly payments cease upon death of the retiree. This option provides the highest monthly benefit.
- Guaranteed Term Benefit options The two guaranteed term benefit options are 10-year guaranteed term and 15-year guaranteed term. These options provide a lifetime monthly benefit to the retiree. In addition, if the retiree passes away within 10 or 15 years of the retirement date, the beneficiary will receive the monthly benefit until the end of the guaranteed term.
- Dual Life options The four dual life options are 100% to beneficiary, 75% to beneficiary, 50% to beneficiary and 100% to beneficiary with popup. Under each of these options, after the death of the retiree, the beneficiary receives a monthly lifetime benefit equal to the selected percentage of the retiree's benefit payment. Under the 100% to beneficiary with pop-up option, if the beneficiary dies before the retiree, the monthly benefit amount will "pop-up" to a higher monthly amount, as if the retiree had retired under the single life option.

All options pay a death benefit equal to the excess of the person's account at retirement over the total monthly benefits that have been paid.

Each employer may elect the partial lump-sum option. This payment option allows the retiring member to receive an immediate lump-sum payment not to exceed his or her account balance, and choose a reduced monthly lifetime benefit from any of the payment options.

Annuity Purchase Rates (Factors for Conversion to Monthly Annuity Payments)

For benefits based on member deposits made prior to January 1, 2018 (including interest on those deposits, employer matching and other employer credits), benefit credits are converted into monthly benefit payments using the UP-1984 Table with an age set back of five years for retirees and an age set back of 10 years for beneficiaries, and an interest rate of 7.0%.

For benefits based on member deposits made on January 1, 2018 or later (including interest on those deposits, employer matching and other employer credits), benefit credits are converted into monthly benefit payments using a custom generational mortality table (see below for details) and an interest rate of 7.0%. The rates in this mortality table vary based on the member's year of birth, so the conversion factors also vary by year of retirement.

Annuity Purchase Rates (2014 TCDRS Unisex Mortality Table)

Average of the male and female rates for service retirees for member mortality. 30%/70% male/female blend for beneficiary mortality. Males --The RP-2000 Combined Mortality Table for males projected to 2014 with scale AA and then projected with 110% of the MP-2014 Ultimate scale thereafter, with a one-year set-forward.

Females -- The RP-2000 Combined Mortality Table for females projected to 2014 with scale AA and then projected with 110% of the MP-2014 Ultimate scale thereafter, with no age adjustment.

Monthly benefits are calculated by dividing the total benefit credits by the associated annuity purchase rate. Sample annuity purchase rates for the single life form of payment are shown below:

Table 1 Sample Annuity Purchase Rates

| | Annuity Purchase Rate for Single Life Benefit | | | | |
|--------------------------|---|--|--|--|--|
| Sample Retirement Age | Pre-2018 Deposits | Post-2017 Deposits 2020 Retirement Date | Post-2017 Deposits 2030 Retirement Date | Post-2017 Deposits 2040 Retirement Date | |
| 50 | 147.2259 | 155.2309 | 156.5194 | 157.7373 | |
| 55 | 138.8321 | 147.2718 | 148.9675 | 150.5769 | |
| 60 | 128.9240 | 137.1731 | 139.3300 | 141.3890 | |
| 65 | 117.4861 | 125.0176 | 127.6430 | 130.1663 | |
| 70 | 104.6995 | 110.8674 | 113.9168 | 116.8715 | |
| 75 | 91.2252 | 94.7558 | 98.1199 | 101.4138 | |

Actuarial procedures and assumptions

THE ACTUARIAL VALUATION

Each year Milliman, TCDRS' independent consulting actuaries, analyzes your plan to determine your employer contribution rate. We study your workforce and estimate the benefits you will pay to your employees. We estimate how much the benefits you will provide are worth in today's dollars — this is what's known as the present value of your plan's future benefits. We then compare the assets you have already invested with what you will need to pay for benefits. Based on this comparison, we determine how much you will need to pay each year to fund those benefits.

Please keep in mind that the ultimate cost of a retirement program is based on the actual benefits paid to the employees. The actuarial valuation assumptions and methods are used to allocate the contributions to the plan over various time periods, but ultimately do not impact the true cost of the plan.

The actuarial procedures and assumptions used in this valuation are described in this section. The actuarial assumptions are intended to estimate the future plan experience of the members and benefit recipients of your retirement plan. Any variations in future plan experience from that expected under these assumptions will result in corresponding changes in the estimated costs of the plan's benefits.

The economic and demographic assumptions have been established based on the experience study for TCDRS, details of which can be found in the Investigation of Experience report. The assumptions applicable to your plan regarding merit salary increase rates, mortality rates, retirement rates and termination of employment rates are illustrated in Tables 2 through 5. The numerical rates provided in the tables represent the likelihood of these events occurring. The following provides additional information regarding the actuarial methods and assumptions.

ACTUARIAL METHODS

Actuarial Cost Method — Entry age actuarial cost method, level percent of payroll.

Plan Funding — The unfunded actuarial accrued liability attributable to each year is amortized over a closed 20-year period as a level percent of covered payroll. The unfunded actuarial accrued liability attributable to benefit increases in a given year is amortized over a closed 15-year period as a level percent of covered payroll. If there is an overfunded actuarial accrued liability, the amortization period is an open 30-year period.

Records and Data — The data regarding active employees, retired employees, survivors and the financial information used in this valuation were supplied by TCDRS, and are accepted for valuation purposes without audit.

Actuarial Value of Assets — The actuarial value of the SAF is equal to the fund value adjusted for a five-year recognition of the difference between the expected and actual interest credited to the SAF for each year. The actuarial value of the ESF is equal to the fund value. The Total Actuarial Value of Assets is equal to the sum of the actuarial values of the ESF and SAF. For the determination of the actuarial value of assets in the 2015 valuation, 2015 actuarial asset losses were recognized immediately to the extent that decreases in the liabilities occurred due to changes in assumptions and methods. If changes in assumptions and methods resulted in an increase in the liabilities, an offsetting gain equal to this increase was immediately recognized in the actuarial assets, but not exceeding 3.7% of the subdivision's account balance as of Jan. 1, 2015 (3.7% is the approximate amount of the interest credited from the system-wide reserves account.). If this adjustment caused the overall impact of the assumptions and method changes to result in a decrease in the required contribution rate, the adjustment amount was limited.

Economic Assumptions

TCDRS system-wide economic assumptions:

Real rate of return 5.0%
Inflation 3.0%
Long-term investment return 8.0%

The assumed long-term investment return of 8% is net after investment and administrative expenses and is expected to enable the system to credit each employer's Subdivision Accumulation Fund (SAF) with a nominal annual rate of 8% on the combined ESF and SAF funds, less the amount credited to the employer's ESF. Under the TCDRS Act, the ESF is credited with a nominal annual rate of 7%. It is assumed interest will be credited at the nominal annual rate of 8% for calculating the actuarial accrued liability and the normal cost contribution rate for the retirement plan of each participating employer.

The annual salary increase rates assumed for individual members vary by length of service and by entry-age group. The annual rates consist of a general wage inflation component of 3.5% (made up of 3.0% inflation and 0.5% productivity increase assumptions) and a merit, promotion and longevity component that on average approximates 1.4% per year for a career employee. (See Table 2 for Merit Salary Increases.)

Employer-specific economic assumptions:

Growth in membership 0.0% Payroll growth 3.5%

The payroll growth assumption is for the aggregate covered payroll of an employer.

Table 2 Merit Salary Increases*

| Years of | Entry Age | | | | |
|----------|-----------|------------|------------|--------------|--|
| Service | Before 30 | Ages 30-39 | Ages 40-49 | 50 and later | |
| 0 | 5.25% | 4.75% | 4.25% | 3.75% | |
| 1 | 4.50 | 4.00 | 3.50 | 3.00 | |
| 2 | 4.00 | 3.50 | 3.00 | 2.50 | |
| 3 | 3.50 | 3.00 | 2.50 | 2.00 | |
| 4 | 3.00 | 2.50 | 2.00 | 1.50 | |
| 5 | 2.65 | 2.15 | 1.65 | 1.15 | |
| 6 | 2.40 | 1.90 | 1.40 | 0.90 | |
| 7 | 2.20 | 1.70 | 1.20 | 0.70 | |
| 8 | 2.05 | 1.55 | 1.05 | 0.55 | |
| 9 | 1.95 | 1.45 | 0.95 | 0.45 | |
| 10 | 1.85 | 1.35 | 0.85 | 0.40 | |
| 11 | 1.75 | 1.25 | 0.75 | 0.40 | |
| 12 | 1.65 | 1.15 | 0.65 | 0.40 | |
| 13 | 1.55 | 1.05 | 0.55 | 0.40 | |
| 14 | 1.45 | 0.95 | 0.45 | 0.40 | |
| 15 | 1.35 | 0.90 | 0.40 | 0.40 | |
| 16 | 1.25 | 0.85 | 0.40 | 0.40 | |
| 17 | 1.15 | 0.80 | 0.40 | 0.40 | |
| 18 | 1.10 | 0.75 | 0.40 | 0.40 | |
| 19 | 1.05 | 0.70 | 0.40 | 0.40 | |
| 20 | 1.00 | 0.65 | 0.40 | 0.40 | |
| 21 | 0.95 | 0.60 | 0.40 | 0.40 | |
| 22 | 0.90 | 0.55 | 0.40 | 0.40 | |
| 23 | 0.85 | 0.50 | 0.40 | 0.40 | |
| 24 | 0.80 | 0.45 | 0.40 | 0.40 | |
| 25 | 0.75 | 0.40 | 0.40 | 0.40 | |
| 26 | 0.70 | 0.40 | 0.40 | 0.40 | |
| 27 | 0.65 | 0.40 | 0.40 | 0.40 | |
| 28 | 0.60 | 0.40 | 0.40 | 0.40 | |
| 29 | 0.55 | 0.40 | 0.40 | 0.40 | |
| 30 & Up | 0.50 | 0.40 | 0.40 | 0.40 | |

^{*} These rates do not include the wage inflation rate of 3.5% per year. For example, a member who entered the system at age 20 and is in the first year of service is assumed to receive an 8.93% total annual increase in his salary. The 8.93% is a combination of the 5.25% merit increase and the 3.5% wage inflation. Note that the two components are compounded, so it is a slightly different result than just adding the two percentages.

DEMOGRAPHIC ASSUMPTIONS

TCDRS system-wide demographic assumptions:

Replacement of Terminated Members — New employees are assumed to replace any terminated members and have similar entry ages.

Disability — The rates of disability used in this valuation are illustrated in Table 3. Members who become disabled are eligible to commence benefit payments regardless of age. Rates of disability are in a custom table based on TCDRS experience.

Table 3
Annual Rates of Disability*

| Age | Work Related Male and Female | All Other Causes Male and Female | Age | Work Related Male and Female | All Other Causes Male and Female |
|--------------|---------------------------------|-------------------------------------|------------|---------------------------------|-------------------------------------|
| less than 25 | 0.000% | 0.000% | 43 | 0.005% | 0.072% |
| 25 | 0.000 | 0.000 | 44 | 0.005 | 0.079 |
| 26 | 0.000 | 0.000 | 45 | 0.006 | 0.086 |
| 27 | 0.000 | 0.000 | 46 | 0.006 | 0.095 |
| 28 | 0.000 | 0.010 | 47 | 0.007 | 0.105 |
| 29 | 0.000 | 0.010 | 48 | 0.007 | 0.119 |
| 30 | 0.000 | 0.011 | 49 | 0.008 | 0.136 |
| 31 | 0.000 | 0.012 | 50 | 0.009 | 0.156 |
| 32 | 0.000 | 0.012 | 51 | 0.009 | 0.178 |
| 33 | 0.000 | 0.014 | 52 | 0.010 | 0.203 |
| 34 | 0.000 | 0.018 | 53 | 0.011 | 0.229 |
| 35 | 0.001 | 0.023 | 54 | 0.012 | 0.254 |
| 36 | 0.001 | 0.028 | 55 | 0.014 | 0.278 |
| 37 | 0.001 | 0.035 | 56 | 0.016 | 0.297 |
| 38 | 0.002 | 0.041 | 57 | 0.018 | 0.312 |
| 39 | 0.002 | 0.047 | 58 | 0.022 | 0.324 |
| 40 | 0.003 | 0.053 | 59 | 0.024 | 0.337 |
| 41 | 0.004 | 0.059 | 60 & Above | 0.000 | 0.000 |
| 42 | 0.004 | 0.066 | | | |

^{*} The probability of disablement from all other causes is applicable for members who are vested but not eligible for service retirement. Before a member is vested, only the work related disability provisions are applicable.

Mortality

| Depositing members | The RP-2000 Active Employee Mortality Table for males with a two-year set-forward and the RP-2000 Active Employee Mortality Table for females with a four-year setback, both projected to 2014 with scale AA and then projected with 110% of the MP-2014 Ultimate scale thereafter. |
|--|---|
| Service retirees, beneficiaries and non-depositing members | The RP-2000 Combined Mortality Table projected to 2014 with scale AA and then projected with 110% of the MP-2014 Ultimate scale thereafter, with a one-year set-forward for males and no age adjustment for females. |
| Disabled retirees | RP-2000 Disabled Mortality Table projected to 2014 with scale AA and then projected with 110% of the MP-2014 Ultimate scale thereafter, with no age adjustment for males and a two-year set-forward for females. |

Family Composition — For current retirees, beneficiary information is supplied by TCDRS. For purposes of calculating the Survivor Benefit for current depositing and non-depositing members, male members are assumed to have a female beneficiary who is three years younger. Female members are assumed to have a male beneficiary who is three years older.

Service Retirement — Members eligible for service retirement are assumed to retire at the rates shown in Table 4.

Table 4
Annual Rates of Service Retirement *

| Age | Male | Female | Age | Male | Female |
|-------|------|--------|------|-------|--------|
| 40-44 | 4.5% | 4.5% | 62 | 25.0% | 25.0% |
| 45–49 | 9.0 | 9.0 | 63 | 16.0 | 16.0 |
| 50 | 10.0 | 10.0 | 64 | 16.0 | 16.0 |
| 51 | 10.0 | 10.0 | 65 | 30.0 | 30.0 |
| 52 | 10.5 | 10.5 | 66 | 25.0 | 25.0 |
| 53 | 10.5 | 10.5 | 67 | 24.0 | 24.0 |
| 54 | 10.5 | 10.5 | 68 | 22.0 | 22.0 |
| 55 | 11.0 | 11.0 | 69 | 22.0 | 22.0 |
| 56 | 11.0 | 11.0 | 70 | 22.0 | 22.0 |
| 57 | 11.0 | 11.0 | 71 | 22.0 | 22.0 |
| 58 | 12.0 | 12.0 | 72 | 22.0 | 22.0 |
| 59 | 12.0 | 12.0 | 73 | 22.0 | 22.0 |
| 60 | 14.0 | 14.0 | 74** | 22.0 | 22.0 |
| 61 | 12.0 | 12.0 | | | |

 $^{^{\}star}$ $\,$ Deferred members are assumed to retire (100% probability) at the later of: a) age 60 $\,$

b) earliest retirement eligibility.

^{**} For all eligible members ages 75 and later, retirement is assumed to occur immediately.

Employer-specific demographic assumptions:

Other Terminations of Employment — The rate of assumed future termination from active participation in the plan for reasons other than death, disability or retirement are illustrated in Table 5. The rates vary by length of service, entry-age group (age at hire) and sex. No termination after eligibility for retirement is assumed.

Table 5
Annual Rates of Termination

| Years of Service | Entry Male | Age 20 Female | Entry . Male | Age 30 Female | Entry . Male | Age 40 Female | Entry / Male | Age 50 Female |
|---------------------|---------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| 0 | 23.18% | 25.12% | 19.15% | 20.75% | 17.14% | 18.56% | 15.12% | 16.38% |
| 1 | 15.46 | 16.74 | 12.77 | 13.83 | 11.42 | 12.38 | 10.08 | 10.92 |
| 2 | 11.59 | 12.56 | 9.58 | 10.37 | 8.57 | 9.28 | 7.56 | 8.19 |
| 3 | 9.28 | 10.05 | 7.66 | 8.30 | 6.85 | 7.43 | 6.05 | 6.55 |
| 4 | 7.73 | 8.37 | 6.38 | 6.92 | 5.71 | 6.19 | 5.04 | 5.46 |
| 5 | 6.57 | 7.12 | 5.43 | 5.88 | 4.86 | 5.26 | 4.28 | 4.64 |
| 6 | 5.41 | 5.86 | 4.47 | 4.84 | 4.00 | 4.33 | 3.53 | 3.82 |
| 7 | 4.63 | 5.03 | 3.83 | 4.15 | 3.43 | 3.71 | 3.02 | 3.28 |
| 8 | 4.25 | 4.61 | 3.51 | 3.80 | 3.14 | 3.40 | 2.77 | 3.00 |
| 9 | 3.86 | 4.19 | 3.19 | 3.46 | 2.86 | 3.09 | 2.52 | 2.73 |
| 10 | 3.48 | 3.77 | 2.87 | 3.12 | 2.57 | 2.79 | 2.27 | 2.46 |
| 11 | 3.09 | 3.35 | 2.56 | 2.77 | 2.28 | 2.48 | 2.02 | 2.18 |
| 12 | 2.78 | 3.02 | 2.30 | 2.49 | 2.06 | 2.23 | 1.81 | 1.97 |
| 13 | 2.47 | 2.68 | 2.04 | 2.21 | 1.83 | 1.98 | 1.61 | 1.75 |
| 14 | 2.16 | 2.35 | 1.79 | 1.94 | 1.60 | 1.74 | 1.41 | 1.53 |
| 15 | 1.86 | 2.01 | 1.53 | 1.66 | 1.37 | 1.48 | 1.21 | 1.31 |
| 16 | 1.62 | 1.76 | 1.34 | 1.45 | 1.20 | 1.30 | 1.06 | 1.15 |
| 17 | 1.39 | 1.51 | 1.15 | 1.25 | 1.03 | 1.11 | 0.91 | 0.98 |
| 18 | 1.24 | 1.34 | 1.02 | 1.11 | 0.92 | 0.99 | 0.81 | 0.88 |
| 19 | 1.16 | 1.25 | 0.96 | 1.04 | 0.85 | 0.93 | 0.76 | 0.82 |
| 20 | 1.16 | 1.25 | 0.96 | 1.04 | 0.85 | 0.93 | 0.76 | 0.82 |
| 21 | 1.04 | 1.13 | 0.86 | 0.93 | 0.77 | 0.83 | 0.68 | 0.74 |
| 22 | 0.92 | 1.01 | 0.76 | 0.83 | 0.69 | 0.74 | 0.60 | 0.66 |
| 23 | 0.81 | 0.88 | 0.67 | 0.73 | 0.60 | 0.65 | 0.53 | 0.57 |
| 24 | 0.69 | 0.76 | 0.57 | 0.62 | 0.51 | 0.56 | 0.46 | 0.49 |
| 25 | 0.62 | 0.67 | 0.51 | 0.55 | 0.46 | 0.50 | 0.41 | 0.43 |
| 26 | 0.54 | 0.59 | 0.45 | 0.48 | 0.40 | 0.43 | 0.35 | 0.39 |
| 27 | 0.46 | 0.50 | 0.39 | 0.41 | 0.34 | 0.37 | 0.30 | 0.33 |
| 28 | 0.39 | 0.42 | 0.32 | 0.34 | 0.29 | 0.31 | 0.25 | 0.27 |
| 29 | 0.31 | 0.34 | 0.25 | 0.28 | 0.23 | 0.25 | 0.20 | 0.22 |
| 30 & Later | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Withdrawals — Members who terminate may either elect to leave their account with TCDRS or withdraw their funds. The probability that a member elects a withdrawal varies by length of service and vesting schedule. Rates applied to your plan are shown in Table 6. For non-depositing members who are not vested, 100% are assumed to elect a withdrawal.

Table 6
Probability of Withdrawal

| Years of Service | Probability | Years of Service | Probability |
|---------------------|-------------|---------------------|-------------|
| 0 | 100% | 15 | 40% |
| 1 | 100 | 16 | 38 |
| 2 | 100 | 17 | 36 |
| 3 | 100 | 18 | 34 |
| 4 | 100 | 19 | 32 |
| 5 | 100 | 20 | 30 |
| 6 | 100 | 21 | 28 |
| 7 | 100 | 22 | 26 |
| 8 | 50 | 23 | 24 |
| 9 | 49 | 24 | 22 |
| 10 | 48 | 25 | 20 |
| 11 | 47 | 26 | 15 |
| 12 | 46 | 27 | 10 |
| 13 | 44 | 28* | 5 |
| 14 | 42 | | |

Members with more than 28 years of service are not assumed to refund.

Glossary

For your convenience, certain terms used in this report are listed below.

Actuarial Accrued Liability This refers to the present value of future benefits less the present value of future normal cost contributions.

Actuarial Assumptions Factors that actuaries use in estimating the cost of funding your plan. Examples of actuarial assumptions are mortality rates, assumed investment return and employee turnover rates. These assumptions are used to estimate the cost of funding your plan.

Actuarial Experience Investigation The process actuaries use to help set actuarial assumptions.

Actuarial Valuation The process an actuary uses to calculate your required employer contribution rate.

Actuarial Value of Assets The value of cash, investments and other property belonging to a pension plan, as used by the actuary for the purpose of an actuarial valuation.

Annuity Purchase Rates The factors used to convert benefit credits to a monthly benefit when a member retires. Monthly benefits are calculated by dividing the total benefit credits by the associated annuity purchase rate. Sample annuity purchase rates for the standard form of payment are shown in Section 3.

Benefit Recipients This group includes both retirees and survivor beneficiaries receiving monthly payments.

Employer Contribution Rate The percentage of your covered payroll needed to fund your current and past earned benefits

Normal Cost Rate The percentage of your organization's covered payroll needed to fund benefits for your current employees over their careers. See also entry-age actuarial cost method.

UAAL Rate UAAL stands for unfunded actuarial accrued liability. The rate is the percentage of your covered payroll needed to fund benefits not funded by your normal cost rate. See also entry-age actuarial cost method.

Required Rate This is the sum of the normal cost rate and the UAAL rate.

Elected Rate To help keep employer contribution rates more stable, a plan may choose to pay an elected rate, a rate that is greater than the required contribution rate. Adopting an elected rate may create a cushion in the event the plan has negative experience and may make budgeting easier.

Retirement Plan Rate This is the greater of the required or elected rate.

Entry-Age Actuarial Cost Method An actuarial cost method under which the expected future benefits of each individual are funded on a level basis over the individual's employment. The portion of the present value of future benefits allocated to a valuation year is called the normal cost. The portion of the present value not provided for at the valuation date by the present value of future normal costs (PVFNC) is called the actuarial accrued liability.

ESF The Employees Saving Fund. This is the fund where your employees' accounts are maintained.

Funded Ratio This is the ratio of your plan's actuarial value of assets to actuarial accrued liability. The funded ratio assumes on-going contributions. It does not represent the financial status of a terminating plan. It is a snapshot in time and moves from year to year.

Members This group includes both employees and former employees that have accounts at TCDRS. In other words, depositing and non-depositing persons with a TCDRS account.

Overfunded Actuarial Accrued Liability (OAAL)

OAAL refers to the excess, if any, of the actuarial value of assets over the actuarial accrued liability. (See also "Unfunded Actuarial Accrued Liability.")

Payroll Payroll includes the portion of your organization's payroll earned by your employees who deposit a portion of their paychecks to TCDRS.

Plan Assets The assets set aside to pay your plan's future benefit payments.

Plan Experience What actually happens to your plan assets and covered employees over time.

Present Value of Future Benefits The estimated value, in today's dollars, of the future benefits that the actuary expects will be paid under your plan. Actuaries calculate this amount using actuarial assumptions.

Present Value of Future Normal Cost Contributions

The portion of the present value of future benefits allocated to a valuation year based on your workforce entry and exit ages is called normal cost. This is the current value of normal cost contributions for all future years.

SAF Subdivision Accumulation Fund. This is the fund where your employer account is maintained.

Unfunded Actuarial Accrued Liability (UAAL)

The UAAL is the excess, if any, of the actuarial accrued liability over the actuarial value of assets. (See also "Overfunded Actuarial Accrued Liability.")