

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
0005	X	NURSERY EMPLOYEES & DR	2.12	1.70	0.54	2.31	1.70	0.55	-8.23%	0.00%	-1.82%
0008	X	VEGETABLE FARM & DR	1.86	1.42	0.46	2.06	1.45	0.45	-9.71%	-2.07%	2.22%
0016	X	ORCHARD & DR	3.10	2.23	0.44	3.45	2.29	0.45	-10.14%	-2.62%	-2.22%
0034	X	POULTRY OR EGG PRODUCER & DR	2.08	1.67	0.54	2.39	1.76	0.54	-12.97%	-5.11%	0.00%
0035	X	GREENHOUSE-RAISE FLOWERS-DR	1.48	1.22	0.57	1.60	1.22	0.56	-7.50%	0.00%	1.79%
0036	X	DAIRY FARM & DR	3.31	2.65	0.54	3.66	2.70	0.55	-9.56%	-1.85%	-1.82%
0037	X	FIELD CROPS & FARMS NOC & DR	3.25	2.50	0.46	3.82	2.70	0.46	-14.92%	-7.41%	0.00%
0042	X	LANDSCAPE GARDENING & DR	3.82	2.89	0.47	4.34	3.01	0.46	-11.98%	-3.99%	2.17%
0050	X	FARM MACHINERY OP-BY CONTR/DR	2.89	2.31	0.54	3.21	2.37	0.54	-9.97%	-2.53%	0.00%
0065	D	INCIDENTAL FOUNDRY-STEEL - 3146	0.04	0.01	0.45	0.05	0.02	0.46	-20.00%	-50.00%	-2.17%
0066	D	INCIDTL FOUND-NON-FER METL - 3315	0.04	0.01	0.45	0.05	0.02	0.46	-20.00%	-50.00%	-2.17%
0067	D	INCIDENTAL FOUNDRY-IRON - 1925	0.04	0.01	0.45	0.05	0.02	0.46	-20.00%	-50.00%	-2.17%
0079	X	BERRY FARM-DR	2.42	1.75	0.45	2.88	1.92	0.46	-15.97%	-8.85%	-2.17%
0083	X	CATTLE/LIVESTK RAISING-NOC & DR	7.85	6.31	0.55	9.23	6.81	0.55	-14.95%	-7.34%	0.00%
0106	X	TREE/SHRUB PRUN/TRIM-ABOVE GRND-DR	7.44	5.10	0.40	8.54	5.40	0.40	-12.88%	-5.56%	0.00%
0113	X	FISH HATCHERY & DR	2.45	1.96	0.53	3.25	2.39	0.53	-24.62%	-17.99%	0.00%
0117	X	BERRY PICKING-BY HAND	0.37	0.31	0.57	0.35	0.27	0.56	5.71%	14.81%	1.79%
0124	X	REFORESTATION AND DRIVERS	4.23	3.48	0.56	5.23	3.97	0.56	-19.12%	-12.34%	0.00%
0169	X	SHEEP OR GOAT RAISING & DR	5.18	4.18	0.55	5.04	3.73	0.56	2.78%	12.06%	-1.79%
0170	X	ANIMAL RAISING FUR BEARING-DR	2.08	1.67	0.54	2.69	1.98	0.54	-22.68%	-15.66%	0.00%
0251	X	IRRIGATION WORKS OPERATION & DR	2.67	2.12	0.53	3.06	2.25	0.54	-12.75%	-5.78%	-1.85%
0917	X	DOMESTIC SERVICE CONTRACTOR-INSIDE	3.81	3.16	0.58	4.53	3.46	0.57	-15.89%	-8.67%	1.75%
1005	X	COAL MINING-SURFACE-& DR	3.86	2.35	0.34	4.38	2.48	0.35	-11.87%	-5.24%	-2.86%
1164	D	MINING-NOC-UNDERGROUND-& DR	3.75	2.26	0.34	4.56	2.56	0.35	-17.76%	-11.72%	-2.86%
1165	D	MINING-NOC-SURFACE-& DR	2.04	1.39	0.40	2.14	1.35	0.40	-4.67%	2.96%	0.00%
1320	X	OIL/GAS LEASE OPERATOR-ALL OP & DR	1.21	0.83	0.40	1.45	0.92	0.40	-16.55%	-9.78%	0.00%
1322	X	GAS/OIL-OLD WELL-CLEAN-SPEC CONT-DR	4.82	3.23	0.40	5.58	3.45	0.39	-13.62%	-6.38%	2.56%
1430	X	SMELTING/SINTERING/REF-LEAD-& DR	2.83	2.04	0.45	3.12	2.08	0.46	-9.29%	-1.92%	-2.17%
1438	X	SMELT/SINTER/REF-NO LEAD/IRN-NOC/DR	2.93	2.01	0.40	4.63	2.94	0.40	-36.72%	-31.63%	0.00%
1452	X	ORE MILLING & DR	1.68	1.21	0.45	2.04	1.36	0.45	-17.65%	-11.03%	0.00%
1463	X	ASPHALT WORKS & DR	5.57	3.82	0.40	5.53	3.49	0.40	0.72%	9.46%	0.00%
1472	X	DISTILLATION-WOOD-& DR	1.18	0.81	0.40	1.61	1.03	0.40	-26.71%	-21.36%	0.00%
1624	D	QUARRY NOC & DR	2.29	1.55	0.40	2.75	1.73	0.39	-16.73%	-10.40%	2.56%
1642	X	LIME MFG	1.15	0.82	0.44	1.50	0.99	0.45	-23.33%	-17.17%	-2.22%
1654	X	QUARRY-CEMENT-ROCK-SURFACE-DR	4.91	3.52	0.44	6.56	4.35	0.45	-25.15%	-19.08%	-2.22%
1699	X	ROCK WOOL MFG	1.94	1.39	0.44	2.24	1.49	0.45	-13.39%	-6.71%	-2.22%
1701	X	CEMENT MFG	1.73	1.24	0.45	2.10	1.39	0.45	-17.62%	-10.79%	0.00%
1710	D	STONE CRUSHING-NO QUARRY-INC DR	3.33	2.37	0.44	4.25	2.80	0.45	-21.65%	-15.36%	-2.22%
1747	X	EMERY WORKS & DR	1.14	0.82	0.44	1.34	0.89	0.45	-14.93%	-7.87%	-2.22%
1748	X	ABRASIVE WHEEL MFG & DR	2.37	1.71	0.45	2.83	1.89	0.46	-16.25%	-9.52%	-2.17%
1803	D	STONE CUTTING/POLISHING-NOC-DR	4.27	2.76	0.40	4.43	2.64	0.40	-3.61%	4.55%	0.00%
1860	X	ABRASIVE PAPER/CLOTH PREPARATION	1.37	1.12	0.56	1.67	1.27	0.56	-17.96%	-11.81%	0.00%
1924	X	CABLE MFG/WIRE DRAW-NT IRN/STL	1.19	0.98	0.56	1.24	0.94	0.56	-4.03%	4.26%	0.00%
1925	X	DIE CASTING MFG	2.67	2.06	0.47	3.39	2.40	0.46	-21.24%	-14.17%	2.17%
2002	X	PASTA OR NOODLE MFG	1.43	1.19	0.57	1.73	1.32	0.57	-17.34%	-9.85%	0.00%
2003	X	BAKERY: ROUTE SUPERVISOR & DRIVER	2.00	1.59	0.52	2.21	1.62	0.53	-9.50%	-1.85%	-1.89%
2014	X	GRAIN OR FEED MILLING	2.33	1.68	0.44	2.85	1.90	0.45	-18.25%	-11.58%	-2.22%
2016	X	CEREAL OR BAR MFG	1.64	1.35	0.57	1.92	1.46	0.56	-14.58%	-7.53%	1.79%
2021	X	SUGAR REFINING	1.54	1.19	0.47	1.81	1.28	0.46	-14.92%	-7.03%	2.17%
2039	X	ICE CREAM MFG & DRIVERS	1.77	1.47	0.57	2.05	1.56	0.57	-13.66%	-5.77%	0.00%
2041	X	CANDY, CHOCOLATE & CONFECTION MFG	1.58	1.30	0.57	1.97	1.49	0.56	-19.80%	-12.75%	1.79%
2065	X	MILK PRODUCTS MFG-NOC	1.17	0.94	0.54	1.51	1.11	0.54	-22.52%	-15.32%	0.00%
2070	X	CREAMERY & RT SUPERVISOR/DR	1.86	1.48	0.53	2.35	1.73	0.54	-20.85%	-14.45%	-1.85%
2089	X	PACKING HOUSE-ALL OPERATIONS	5.15	4.13	0.54	6.24	4.60	0.55	-17.47%	-10.22%	-1.82%
2095	X	MEAT PRODUCTS MFG-NOC	1.80	1.44	0.54	1.90	1.40	0.55	-5.26%	2.86%	-1.82%
2104	X	SEAFOOD PROCESSORS	3.33	2.67	0.54	3.78	2.79	0.55	-11.90%	-4.30%	-1.82%
2105	X	FRUIT PACKING	1.89	1.57	0.57	2.15	1.64	0.57	-12.09%	-4.27%	0.00%
2110	X	PICKLE MFG	1.18	0.97	0.56	1.34	1.02	0.56	-11.94%	-4.90%	0.00%
2111	X	CANNERY-NOC	2.27	1.87	0.57	2.66	2.03	0.57	-14.66%	-7.88%	0.00%
2112	X	FRUIT EVAPORATING OR PRESERVING	2.62	2.17	0.57	2.94	2.24	0.57	-10.88%	-3.13%	0.00%
2114	X	OYSTER PROCESSING	1.91	1.58	0.57	2.33	1.77	0.57	-18.03%	-10.73%	0.00%
2121	X	BREWERY & DR	1.25	1.00	0.54	1.43	1.06	0.55	-12.59%	-5.66%	-1.82%
2130	X	DISTILLERY-SPIRITUOUS LIQUOR	1.03	0.82	0.53	1.30	0.96	0.54	-20.77%	-14.58%	-1.85%
2131	X	SPIRITUOUS LIQUOR BOTTLING	1.87	1.50	0.53	2.24	1.65	0.54	-16.52%	-9.09%	-1.85%
2143	X	FRUIT JUICE MFG & DRIVERS	1.26	1.04	0.57	1.37	1.04	0.57	-8.03%	0.00%	0.00%
2157	X	BOTTLING-ALL OPS-ROUTE SUPVIS & DR	2.28	1.81	0.53	2.78	2.04	0.54	-17.99%	-11.27%	-1.85%
2211	X	WOOL SEPARATE/COMB/SCOUR	4.54	3.27	0.44	5.66	3.75	0.45	-19.79%	-12.80%	-2.22%
2220	X	YARN OR THREAD MFG-COTTON	1.11	0.88	0.53	1.29	0.95	0.54	-13.95%	-7.37%	-1.85%
2286	X	YARN MFG-WOOL	0.92	0.76	0.56	1.03	0.78	0.56	-10.68%	-2.56%	0.00%
2288	X	FELTING MFG	2.30	1.90	0.57	2.86	2.18	0.56	-19.58%	-12.84%	1.79%
2302	X	SILK THREAD OR YARN MFG	1.04	0.83	0.54	1.25	0.92	0.54	-16.80%	-9.78%	0.00%
2305	X	TEXTILE FIBER MFG-SYNTHETIC	1.19	0.92	0.46	1.40	0.99	0.46	-15.00%	-7.07%	0.00%
2361	X	HOSIERY MFG	1.22	0.97	0.54	1.35	0.99	0.54	-9.63%	-2.02%	0.00%
2362	X	KNIT GOODS MFG-NOC	0.90	0.72	0.54	0.96	0.71	0.54	-6.25%	1.41%	0.00%
2380	X	WEBBING MFG	1.27	1.02	0.54	1.51	1.11	0.54	-15.89%	-8.11%	0.00%
2388	X	EMBROIDERY MFG	0.69	0.57	0.57	0.87	0.66	0.57	-20.69%	-13.64%	0.00%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
2402		CARPET OR RUG MFG-NOC	1.47	1.06	0.45	1.62	1.08	0.45	-9.26%	-1.85%	0.00%
2413		TEXTILE-BLEACH/DYE/MERCER/FINSH	1.32	1.06	0.54	1.49	1.09	0.54	-11.41%	-2.75%	0.00%
2416		THREAD/YARN DYEING-FINISHING	1.11	0.88	0.53	1.34	0.98	0.54	-17.16%	-10.20%	-1.85%
2417		CLOTH PRINTING BY MACHINE	0.70	0.56	0.53	0.86	0.63	0.54	-18.60%	-11.11%	-1.85%
2501		CLOTHING/CANVAS/RELTD PROD MFG-NOC	1.15	0.92	0.54	1.35	0.99	0.54	-14.81%	-7.07%	0.00%
2503		DRESSMAKING/TAILORING-CUSTOM	0.74	0.61	0.56	0.69	0.53	0.56	7.25%	15.09%	0.00%
2534		FEATHER OR FLOWER MFG-ARTIFICIAL	1.15	0.92	0.54	1.07	0.81	0.57	7.48%	13.58%	-5.26%
2570		MATTRESS OR BOX SPRING MFG	2.97	2.43	0.55	3.54	2.68	0.55	-16.10%	-9.33%	0.00%
2592	X	CARPET/UPHOLST CLEAN-RT SUPER/DR	2.22	1.78	0.53	2.13	1.56	0.54	4.23%	14.10%	-1.85%
2600		FUR PROCESSING - PREPARING SKINS	2.39	1.96	0.56	2.52	1.92	0.56	-5.16%	2.08%	0.00%
2623		LEATHER MFG INC/TAN/EMBOSS/WOOL PUL	4.11	3.15	0.46	4.50	3.18	0.46	-8.67%	-0.94%	0.00%
2651		GASKET/WASHER MFG-NOT METAL	1.00	0.82	0.57	1.23	0.94	0.57	-18.70%	-12.77%	0.00%
2660		SHOE OR BOOT MFG-NOC	1.28	1.05	0.56	1.31	1.00	0.57	-2.29%	5.00%	-1.75%
2670		GLOVE MFG-LEATHER OR TEXTILE	0.90	0.78	0.62	1.08	0.86	0.60	-16.67%	-9.30%	3.33%
2683		LUGGAGE MFG	1.01	0.84	0.58	0.92	0.70	0.57	9.78%	20.00%	1.75%
2688		LEATHER GOODS MFG NOC	1.88	1.55	0.57	2.57	1.95	0.57	-26.85%	-20.51%	0.00%
2697	X	FIRE WATCH EMPLOYEES-DR	3.02	1.87	0.35	3.93	2.26	0.35	-23.16%	-17.26%	0.00%
2702	X	LOGGING OPS-NON-MECHANIZED & DRIVERS	14.11	8.65	0.34	16.13	9.19	0.35	-12.52%	-5.88%	-2.86%
2703	X	LOGGING EQUIPMENT REPR-SHOP ONL	2.55	1.83	0.44	2.53	1.68	0.45	0.79%	8.93%	-2.22%
2704	X	WILDLAND FIRE FIGHTING & DRIVERS	6.42	3.94	0.34	7.94	4.53	0.35	-19.14%	-13.02%	-2.86%
2710	X	SAW MILL	3.45	2.36	0.40	4.60	2.91	0.40	-25.00%	-18.90%	0.00%
2714	X	VENEER MFG	2.46	2.03	0.57	2.63	2.00	0.56	-6.46%	1.50%	1.79%
2725	X	MECHANIZED LOGGING OPERATIONS & DRIVERS	2.47	1.77	0.44	2.98	1.97	0.45	-17.11%	-10.15%	-2.22%
2731	X	PLANING OR MOLDING MILL	3.48	2.52	0.45	3.82	2.54	0.46	-8.90%	-0.79%	-2.17%
2735		FURNITURE STOCK MFG	2.27	1.88	0.58	2.75	2.09	0.57	-17.45%	-10.05%	1.75%
2759		BOX OR BOX SHOOK MFG	3.96	3.28	0.57	4.30	3.27	0.56	-7.91%	0.31%	1.79%
2790		PATTERN MAKING-NOC	0.80	0.66	0.57	1.02	0.77	0.57	-21.57%	-14.29%	0.00%
2797	X	MFG/MDULR/PRFB BDLG-SHP-AL OPS-DR	2.61	2.09	0.54	2.64	1.94	0.54	-1.14%	7.73%	0.00%
2799	X	MFG/MDULR/PRFB BLDG-SET/HK/INST	4.00	3.01	0.46	4.42	3.05	0.45	-9.50%	-1.31%	2.22%
2802		CARPENTRY-SHOP ONLY-DR	3.02	2.32	0.46	3.40	2.40	0.46	-11.18%	-3.33%	0.00%
2836	X	BRUSH OR BROOM-ASSEMBLY-MFG-NOC	1.37	1.19	0.64	1.72	1.38	0.62	-20.35%	-13.77%	3.23%
2841		WOOD PRODUCTS MFG-TURNED-NOC	2.10	1.74	0.57	2.06	1.57	0.56	1.94%	10.83%	1.79%
2881		PICTURE FRAME ASMBLG-FR MFGD PRTS	1.23	1.06	0.62	1.46	1.16	0.60	-15.75%	-8.62%	3.33%
2883		FURNITURE MFG & CABINET SHOP-WOOD-NOC	1.99	1.59	0.54	2.20	1.62	0.54	-9.55%	-1.85%	0.00%
2915	X	VENEER PROD MFG-INCL VENEER MFG	2.52	1.93	0.46	3.09	2.18	0.46	-18.45%	-11.47%	0.00%
2923		MUSICAL INSTRUMENT MFG-WD-NOC	1.70	1.40	0.57	1.81	1.37	0.56	-6.08%	2.19%	1.79%
2960		WOOD PRESERVING & DR	2.75	2.19	0.53	3.28	2.41	0.54	-16.16%	-9.13%	-1.85%
3004		STEEL MAKNG-ELEC FURN/CRUCBLE/DR	1.02	0.73	0.44	1.35	0.89	0.45	-24.44%	-17.98%	-2.22%
3018		STEEL ROLLING MILL-COLD ROLL-& DR	1.32	0.95	0.45	1.58	1.05	0.45	-16.46%	-9.52%	0.00%
3022		PIPE/TUBE MFG-NOC-DR	2.18	1.80	0.57	2.67	2.03	0.56	-18.35%	-11.33%	1.79%
3027		ROLLING MILL NOC-DR	1.39	1.00	0.44	1.84	1.22	0.45	-24.46%	-18.03%	-2.22%
3028		PIPE/TUBE MFG-IRON/STEEL-DR	1.95	1.55	0.53	2.05	1.51	0.54	-4.88%	2.65%	-1.85%
3030		IRON/STEEL WKS-STRUCTURAL-DR	3.81	2.74	0.44	4.27	2.83	0.45	-10.77%	-3.18%	-2.22%
3040		IRON/STEEL WKS-NONSTRUCTURAL-DR	2.49	1.78	0.44	2.89	1.91	0.45	-13.84%	-6.81%	-2.22%
3041		IRON WORKS-SHOP-DECORATIVE-DR	2.26	1.81	0.54	2.67	1.97	0.54	-15.36%	-8.12%	0.00%
3042		ELEVATOR OR ESCALATOR MFG	2.34	1.79	0.46	2.85	2.01	0.45	-17.89%	-10.95%	2.22%
3064	X	SIGN MFG	1.85	1.48	0.53	2.32	1.71	0.54	-20.26%	-13.45%	-1.85%
3076		FURNITURE MFG-METAL	1.37	1.09	0.53	1.61	1.19	0.54	-14.91%	-8.40%	-1.85%
3081	D	FOUNDRY-FERROUS-NOC	2.65	1.89	0.45	3.12	2.04	0.46	-15.06%	-7.35%	-2.17%
3082	D	FOUNDRY-STEEL CASTINGS	3.48	2.48	0.45	3.79	2.50	0.46	-8.18%	-0.80%	-2.17%
3085	D	FOUNDRY-NON-FERROUS	1.97	1.40	0.45	2.27	1.49	0.46	-13.22%	-6.04%	-2.17%
3110		FORGING WORK-DROP OR MACHINE	2.66	2.12	0.53	3.28	2.42	0.54	-18.90%	-12.40%	-1.85%
3111		BLACKSMITH/FARRIER	2.39	1.92	0.54	3.05	2.25	0.55	-21.64%	-14.67%	-1.82%
3113		TOOL/DIE MFG-NON-FORGED METHOD-NOC	1.04	0.83	0.54	1.23	0.91	0.55	-15.45%	-8.79%	-1.82%
3114		TOOL/DIE MFG-FORGED METHOD	1.34	1.07	0.54	1.51	1.11	0.54	-11.26%	-3.60%	0.00%
3118		SAW MFG-SHARPEN	1.03	0.84	0.55	1.19	0.90	0.56	-13.45%	-6.67%	-1.79%
3122		CUTLERY/RAZOR MFG-NOC	1.27	1.05	0.57	1.15	0.88	0.57	10.43%	19.32%	0.00%
3126		AGRICULTURAL TOOL MFG-HAND	0.90	0.72	0.53	1.08	0.79	0.54	-16.67%	-8.86%	-1.85%
3131		BUTTON OR FASTENER MFG-METAL	1.01	0.81	0.54	1.12	0.83	0.55	-9.82%	-2.41%	-1.82%
3132		NUT OR BOLT MFG	1.84	1.48	0.55	2.18	1.61	0.55	-15.60%	-8.07%	0.00%
3145		SCREW MFG	0.99	0.79	0.54	1.20	0.88	0.55	-17.50%	-10.23%	-1.82%
3146		HARDWARE MFG NOC	0.90	0.72	0.54	1.03	0.76	0.54	-12.62%	-5.26%	0.00%
3169		STOVE MFG	1.35	1.08	0.53	1.67	1.23	0.54	-19.16%	-12.20%	-1.85%
3179		ELECTRICAL APPARATUS MFG NOC	1.17	0.97	0.57	1.27	0.97	0.56	-7.87%	0.00%	1.79%
3180		ELECTRIC OR GAS LIGHTING FIXT MFG	1.36	1.12	0.57	1.54	1.17	0.56	-11.69%	-4.27%	1.79%
3188		PLUMBERS SUPPLY MFG-NOC	1.48	1.23	0.58	1.73	1.32	0.57	-14.45%	-6.82%	1.75%
3220		CAN MFG	1.20	0.96	0.53	1.84	1.35	0.54	-34.78%	-28.89%	-1.85%
3224		ENAMEL OR AGATE WARE MFG	1.86	1.52	0.55	2.21	1.67	0.55	-15.84%	-8.98%	0.00%
3227		ALUMINUM WARE MFG	1.65	1.37	0.57	1.87	1.42	0.57	-11.76%	-3.52%	0.00%
3240		WIRE ROPE/CABLE MFG-IRON/STEEL	1.27	1.05	0.57	1.42	1.08	0.57	-10.56%	-2.78%	0.00%
3241		WIRE DRAWING-IRON OR STEEL	1.54	1.23	0.53	1.81	1.33	0.54	-14.92%	-7.52%	-1.85%
3255		WIRE CLOTH MFG	1.25	1.08	0.62	1.31	1.04	0.60	-4.58%	3.85%	3.33%
3257		WIRE GOODS MFG NOC	1.76	1.41	0.53	1.59	1.17	0.54	10.69%	20.51%	-1.85%
3300		BED SPRING OR WIRE MATTRESS MFG	2.30	1.85	0.55	2.58	1.90	0.55	-10.85%	-2.63%	0.00%
3303		SPRING MFG	2.05	1.69	0.57	3.22	2.45	0.56	-36.34%	-31.02%	1.79%
3307		HEAT TREATING-METAL	2.04	1.63	0.54	2.30	1.69	0.54	-11.30%	-3.55%	0.00%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
3315		COPPER OR BRASS GOODS MFG	2.27	1.86	0.56	2.91	2.21	0.56	-21.99%	-15.84%	0.00%
3334		TIN FOIL MFG	1.49	1.18	0.52	1.89	1.39	0.53	-21.16%	-15.11%	-1.89%
3336		CASTING MFG-METL-LOST WAX PROCESS	1.60	1.15	0.44	1.74	1.16	0.45	-8.05%	-0.86%	-2.22%
3365		WELDING OR CUTTING NOC & DR	2.51	1.77	0.44	3.02	1.96	0.45	-16.89%	-9.69%	-2.22%
3372		ELECTROPLATING	2.28	1.75	0.46	2.63	1.86	0.46	-13.31%	-5.91%	0.00%
3373		TINNING/GALVANIZING-NOT ELECTRO	2.74	2.18	0.53	3.93	2.89	0.53	-30.28%	-24.57%	0.00%
3383		JEWELRY MFG	0.77	0.63	0.57	0.90	0.68	0.57	-14.44%	-7.35%	0.00%
3385		WATCH/CLOCK MFG	0.42	0.34	0.57	0.49	0.37	0.56	-14.29%	-8.11%	1.79%
3400		METAL STAMPING MFG-NOC	1.64	1.26	0.46	1.95	1.38	0.46	-15.90%	-8.70%	0.00%
3507		MACHINERY OR EQUIPMENT MFG-NOC	1.74	1.39	0.54	2.05	1.51	0.54	-15.12%	-7.95%	0.00%
3548		PRINTING/BOOKBINDING MACHINE MFG	0.69	0.55	0.54	0.80	0.59	0.54	-13.75%	-6.78%	0.00%
3559		CONFECTION MACHINE MFG	1.19	0.96	0.54	1.49	1.09	0.55	-20.13%	-11.93%	-1.82%
3574		COMPUTING/OFFICE MACHINE MFG-NOC	0.49	0.41	0.56	0.57	0.43	0.56	-14.04%	-4.65%	0.00%
3612		PUMP MFG	1.46	1.11	0.46	1.62	1.15	0.45	-9.88%	-3.48%	2.22%
3620		TANK BUILDING-METAL-SHOP	2.15	1.55	0.45	2.33	1.55	0.45	-7.73%	0.00%	0.00%
3629		PRECISION MACHINE PARTS MFG NOC	0.90	0.74	0.56	1.06	0.80	0.55	-15.09%	-7.50%	1.82%
3632	X	MACHINE SHOP-NOC	1.68	1.28	0.46	2.01	1.42	0.45	-16.42%	-9.86%	2.22%
3634		VALVE MFG	1.03	0.85	0.57	1.19	0.90	0.56	-13.45%	-5.56%	1.79%
3635		GEAR MFG OR GRINDING	1.25	1.00	0.53	1.71	1.26	0.54	-26.90%	-20.63%	-1.85%
3638		BALL OR ROLLER BEARING MFG	0.84	0.70	0.57	0.94	0.71	0.56	-10.64%	-1.41%	1.79%
3642		BATTERY MFG-DRY	0.73	0.59	0.54	0.77	0.57	0.55	-5.19%	3.51%	-1.82%
3643		ELECTRIC POWER/TRANS EQUIPMENT MFG	1.19	0.95	0.53	1.64	1.21	0.55	-27.44%	-21.49%	-3.64%
3647		BATTERY MFG-STORAGE	1.06	0.81	0.46	1.19	0.84	0.46	-10.92%	-3.57%	0.00%
3648		AUTO LIGHT/IGNIT/START MFG NOC	0.82	0.68	0.56	0.97	0.74	0.56	-15.46%	-8.11%	0.00%
3681		ELECTRONIC PARTS MFG/ASMBLG-NOC	0.41	0.33	0.56	0.46	0.35	0.56	-10.87%	-5.71%	0.00%
3685		INSTRUMENT MFG NOC	0.61	0.51	0.57	0.71	0.54	0.56	-14.08%	-5.56%	1.79%
3719		OIL STILL ERECTION OR REPAIR	0.74	0.45	0.34	0.93	0.52	0.35	-20.43%	-13.46%	-2.86%
3724		MILLWRIGHT WORK-NOC-DR	2.30	1.54	0.40	2.70	1.68	0.39	-14.81%	-8.33%	2.56%
3726		BOILER INSTALLATION/REPAIR-STEAM	3.19	1.91	0.34	3.60	2.01	0.35	-11.39%	-4.98%	-2.86%
3803		AUTO-WHEEL MFG-METAL-NOT CAST	1.96	1.56	0.52	2.89	2.11	0.53	-32.18%	-26.07%	-1.89%
3807		RADIATOR MFG-AUTOMOBILE	1.60	1.33	0.58	2.24	1.72	0.58	-28.57%	-22.67%	0.00%
3808		AUTOMOBILE MFG OR ASMBLY	2.00	1.54	0.46	2.31	1.63	0.46	-13.42%	-5.52%	0.00%
3821	X	AUTOMOBILE DISMANTLING/RECYCLE-DR	3.16	2.42	0.46	3.69	2.61	0.46	-14.36%	-7.28%	0.00%
3822	X	AUTOMOBILE/BUS/TRUCK/TRAILER BODY MFG	2.07	1.59	0.47	3.04	2.14	0.46	-31.91%	-25.70%	2.17%
3824	X	TRAILER MFG-INCL BODY INSTALLATION	3.15	2.42	0.46	3.61	2.55	0.46	-12.74%	-5.10%	0.00%
3826		AIRCRAFT ENGINE MFG	0.60	0.48	0.52	0.69	0.51	0.53	-13.04%	-5.88%	-1.89%
3827		AUTOMOBILE ENGINE MFG	1.16	0.89	0.46	1.36	0.96	0.46	-14.71%	-7.29%	0.00%
3830		AIRPLANE MFG	0.70	0.53	0.45	0.79	0.56	0.45	-11.39%	-5.36%	0.00%
3851		MOTORCYCLE MFG OR ASSEMBLY	1.31	1.08	0.56	1.71	1.30	0.55	-23.39%	-16.92%	1.82%
3865		BICYCLE MFG OR ASSEMBLY	1.06	0.92	0.62	1.26	1.01	0.61	-15.87%	-8.91%	1.64%
3881		CAR MFG-RAILROAD-DR	1.59	1.27	0.53	1.95	1.43	0.54	-18.46%	-11.19%	-1.85%
4000		SAND OR GRAVEL DIGGING-DR	2.71	1.85	0.40	3.54	2.24	0.40	-23.45%	-17.41%	0.00%
4021		TILE MFG NOC-DR	2.89	2.08	0.45	2.84	1.89	0.46	1.76%	10.05%	-2.17%
4024		BRICK MFG-FIRE OR ENAMEL-INCL DR	3.21	2.35	0.47	3.63	2.43	0.47	-11.57%	-3.29%	0.00%
4034		CONCR PROD MFG-SHOP/YD ONLY-DR	3.97	2.84	0.44	4.44	2.94	0.45	-10.59%	-3.40%	-2.22%
4036		SYNTHETIC MARBLE MFG-DR	1.46	1.05	0.44	1.67	1.11	0.45	-12.57%	-5.41%	-2.22%
4038		PLASTER STATUARY/ORNAMENT MFG	1.50	1.29	0.61	1.80	1.42	0.59	-16.67%	-9.15%	3.39%
4062		CERAMICS MFG-MECH PRESS FORMED	1.44	1.15	0.53	1.48	1.09	0.54	-2.70%	5.50%	-1.85%
4101		GLASS MFG-ROLLED-DR	1.54	1.18	0.46	1.73	1.22	0.46	-10.98%	-3.28%	0.00%
4109		COMPUTER CHIP MFG	0.34	0.28	0.57	0.44	0.33	0.56	-22.73%	-15.15%	1.79%
4110		FIBER OPTIC CABLE MFG.	0.36	0.29	0.54	0.41	0.30	0.54	-12.20%	-3.33%	0.00%
4111		GLASSWRE MFG-NO AUTO BLOW MACH	0.71	0.59	0.57	0.88	0.67	0.57	-19.32%	-11.94%	0.00%
4114		GLASSWARE MFG NOC	1.35	1.07	0.53	1.44	1.06	0.54	-6.25%	0.94%	-1.85%
4130		GLASS MERCHANT: INCLUDING COUNTER SALES	1.98	1.58	0.53	2.42	1.78	0.54	-18.18%	-11.24%	-1.85%
4131		MIRROR MFG	2.96	2.46	0.58	3.20	2.44	0.57	-7.50%	0.82%	1.75%
4133		CATHEDRAL OR ART GLASS WINDOW MFG	0.91	0.75	0.57	1.08	0.82	0.57	-15.74%	-8.54%	0.00%
4149		OPTICAL GOODS MFG.-NOC	0.35	0.30	0.61	0.41	0.32	0.60	-14.63%	-6.25%	1.67%
4206		PULP MFG-GROUND WOOD PROCESS	3.14	2.50	0.52	2.83	2.08	0.53	10.95%	20.19%	-1.89%
4207		PULP MFG-CHEMICAL PROCESS	0.95	0.68	0.44	1.20	0.79	0.44	-20.83%	-13.92%	0.00%
4239		PAPER MFG	1.30	0.94	0.44	1.75	1.16	0.45	-25.71%	-18.97%	-2.22%
4240		BOX MFG-SET-UP PAPER	1.56	1.29	0.57	1.41	1.07	0.57	10.64%	20.56%	0.00%
4243		BOX MFG-FOLDING PAPER-NOC	1.20	0.96	0.53	1.24	0.91	0.53	-3.23%	5.49%	0.00%
4244		CORRUGATED/FIBRE BRD CONTAINER MFG	1.39	1.11	0.53	1.45	1.07	0.54	-4.14%	3.74%	-1.85%
4250		PAPER CORRUGATING OR LAMINATING	0.96	0.77	0.53	1.14	0.84	0.54	-15.79%	-8.33%	-1.85%
4251		STATIONERY MFG	1.71	1.37	0.54	2.01	1.48	0.54	-14.93%	-7.43%	0.00%
4263		FIBER GOODS MFG	1.19	0.96	0.54	1.33	0.98	0.55	-10.53%	-2.04%	-1.82%
4273		BAG MFG-PAPER OR PLASTIC	1.54	1.23	0.53	1.69	1.24	0.54	-8.88%	-0.81%	-1.85%
4279		PAPER GOODS MFG-NOC	1.28	1.02	0.52	1.79	1.31	0.54	-28.49%	-22.14%	-3.70%
4282		DRESS PATTERN MFG-PAPER	1.11	0.91	0.56	1.00	0.76	0.55	11.00%	19.74%	1.82%
4283		ROOF/BLDG PAPER/FELT PREP-NO INSTL	0.72	0.58	0.54	0.95	0.70	0.55	-24.21%	-17.14%	-1.82%
4299	X	PRINTING	1.51	1.25	0.57	1.59	1.21	0.56	-5.03%	3.31%	1.79%
4304		NEWSPAPER PUBLISHING	1.91	1.46	0.46	2.10	1.48	0.46	-9.05%	-1.35%	0.00%
4307		BOOKBINDING	1.08	0.93	0.61	1.11	0.88	0.60	-2.70%	5.68%	1.67%
4351		PHOTOENGRAVING	0.48	0.39	0.54	0.55	0.40	0.55	-12.73%	-2.50%	-1.82%
4352		ENGRAVING	0.97	0.81	0.58	1.07	0.81	0.57	-9.35%	0.00%	1.75%
4360		MOTION PIC PROD-DEVEL NEG-TO FINISH	0.56	0.46	0.56	0.66	0.50	0.56	-15.15%	-8.00%	0.00%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
4361		PHOTOGRAPHER-ALL EMP'S & CLER/SLS/DR	0.72	0.60	0.57	0.77	0.59	0.56	-6.49%	1.69%	1.79%
4410		RUBBER GOODS MFG-NOC	2.12	1.70	0.54	2.05	1.51	0.54	3.41%	12.58%	0.00%
4420		TIRE MFG-RUBBER	2.03	1.38	0.40	2.32	1.46	0.39	-12.50%	-5.48%	2.56%
4431		PHONOGRAPH RECORD MFG	0.87	0.75	0.62	1.06	0.84	0.60	-17.92%	-10.71%	3.33%
4432		PEN MANUFACTURING	1.08	0.94	0.62	1.44	1.15	0.60	-25.00%	-18.26%	3.33%
4452		PLASTICS MFG-FABRICATED PROD-NOC	1.54	1.24	0.54	1.74	1.28	0.54	-11.49%	-3.13%	0.00%
4459		PLASTICS MFG-SHEETS/RODS/TUBES	1.80	1.44	0.54	2.10	1.54	0.54	-14.29%	-6.49%	0.00%
4470		CABLE MFG-INSULATED ELECTRICAL	1.05	0.84	0.53	1.18	0.86	0.54	-11.02%	-2.33%	-1.85%
4484		PLASTICS MFG-MOLDED PRODUCTS-NOC	1.58	1.26	0.54	1.85	1.36	0.54	-14.59%	-7.35%	0.00%
4493		FABRIC COATING/IMPREGNATING-NOC	1.38	1.10	0.53	1.62	1.19	0.54	-14.81%	-7.56%	-1.85%
4511		ANALYTICAL CHEMIST & DRS	0.36	0.28	0.46	0.40	0.28	0.46	-10.00%	0.00%	0.00%
4557		CANDLE MFG	0.96	0.80	0.57	1.12	0.85	0.56	-14.29%	-5.88%	1.79%
4558		PAINT MFG	0.97	0.78	0.53	1.05	0.77	0.54	-7.62%	1.30%	-1.85%
4568		SALT/BORAX/POTASH PROD/REFINE & DR	1.31	0.94	0.44	1.56	1.04	0.45	-16.03%	-9.62%	-2.22%
4583		FERTILIZER MFG & DR	2.10	1.44	0.40	2.55	1.62	0.40	-17.65%	-11.11%	0.00%
4611		DRUG/MED PREP MFG-NO MFG INGRED	0.53	0.43	0.57	0.60	0.45	0.56	-11.67%	-4.44%	1.79%
4635		FIRE EXTINGUISHER-SALES/SER-DR	1.70	1.04	0.34	2.33	1.33	0.35	-27.04%	-21.80%	-2.86%
4653		GLUE MFG & DR	0.90	0.74	0.57	1.20	0.91	0.56	-25.00%	-18.68%	1.79%
4665		RENDERING WORKS NOC & DR	3.62	2.61	0.45	3.66	2.43	0.45	-1.09%	7.41%	0.00%
4670		COTTONSEED OIL MFG-MECHANICL-DR	4.41	3.19	0.45	5.47	3.65	0.46	-19.38%	-12.60%	-2.17%
4683		OIL MFG-VEGETABLE-NOC	2.16	1.72	0.53	2.82	2.07	0.54	-23.40%	-16.91%	-1.85%
4686		OIL MFG-VEG-SOLVENT EXTRACT PROCESS	1.25	0.90	0.45	1.42	0.95	0.45	-11.97%	-5.26%	0.00%
4692		DENTAL LABORATORY	0.46	0.38	0.55	0.43	0.32	0.56	6.98%	18.75%	-1.79%
4693		PHARMACEUTICAL/SURG GOODS MFG-NOC	0.66	0.53	0.54	0.69	0.51	0.55	-4.35%	3.92%	-1.82%
4703		CORN PRODUCTS MFG	1.11	0.88	0.52	1.37	1.00	0.53	-18.98%	-12.00%	-1.89%
4717		BUTTER SUBSTITUTE MFG	1.50	1.29	0.61	1.85	1.47	0.60	-18.92%	-12.24%	1.67%
4720		SOAP OR SYNTHETIC DETERGENT MFG	1.54	1.24	0.54	1.88	1.39	0.54	-18.09%	-10.79%	0.00%
4740		OIL RECLAIMING USED MOTOR OIL/DR	1.76	1.26	0.43	2.04	1.35	0.44	-13.73%	-6.67%	-2.27%
4741		ASPHALT/TAR DISTILLING/REFINING-DR	1.34	1.06	0.53	1.21	0.89	0.53	10.74%	19.10%	0.00%
4751		SYNTHETIC RUBBER MFG	1.10	0.79	0.45	1.23	0.82	0.46	-10.57%	-3.66%	-2.17%
4771	N	EXPLOSIV-AMMO-HIGH EXPLO MFG-DR	1.40	0.86	0.34	1.58	0.90	0.35	-11.39%	-4.44%	-2.86%
4777		BLASTING AGENTS-PREPARE/DISTR-DR	1.87	1.15	0.34	2.38	1.36	0.35	-21.43%	-15.44%	-2.86%
4825		DRUG/MEDICINE MFG-INCL MFG INGRED	0.91	0.65	0.44	1.07	0.71	0.45	-14.95%	-8.45%	-2.22%
4828		CHEMICAL-BLEND/MIX-NOC-ALL OPER-DR	1.27	0.98	0.47	1.37	0.97	0.46	-7.30%	1.03%	2.17%
4829		CHEMICAL MFG-NOC-ALL OPER-DR	0.58	0.40	0.40	0.76	0.48	0.40	-23.68%	-16.67%	0.00%
4902		SPORTING GOODS MFG-NOC	1.88	1.55	0.57	2.15	1.63	0.56	-12.56%	-4.91%	1.79%
4923		PHOTOGRAPHIC SUPPLIES MFG	0.43	0.34	0.54	0.47	0.35	0.55	-8.51%	-2.86%	-1.82%
5020		CEIL INSTL-ACOUSTICAL-SUSP-GRID TYP	2.96	2.08	0.44	3.55	2.31	0.45	-16.62%	-9.96%	-2.22%
5022		MASONRY-NOC	4.16	2.78	0.40	5.18	3.21	0.39	-19.69%	-13.40%	2.56%
5040		IRON/STEEL ERECT-FRAME STRUCTRES	4.31	2.59	0.34	5.66	3.16	0.35	-23.85%	-18.04%	-2.86%
5057	X	IRON/STEEL ERECTION-NOC	4.00	2.40	0.34	5.03	2.81	0.35	-20.48%	-14.59%	-2.86%
5059	X	IRON/STEEL ERECT-1-2 STORY FRAME STR	9.59	5.78	0.34	10.68	5.96	0.35	-10.21%	-3.02%	-2.86%
5102	X	DOOR/WINDOW-INSTL-ALL--RSDNTL/CMRCL	2.45	1.63	0.40	2.93	1.81	0.40	-16.38%	-9.94%	0.00%
5146		FURNITURE/FIXTURES INSTALL-PORT-NOC	3.00	2.11	0.44	3.71	2.41	0.45	-19.14%	-12.45%	-2.22%
5160		ELEVATOR-ERECT/SERV/REPAIR	1.36	0.91	0.40	1.39	0.86	0.39	-2.16%	5.81%	2.56%
5183		PLUMBING-NOC-DR	1.71	1.20	0.44	1.92	1.24	0.44	-10.94%	-3.23%	0.00%
5188		AUTOMATIC SPRINKLER INSTAL & DR	2.36	1.66	0.44	2.87	1.86	0.45	-17.77%	-10.75%	-2.22%
5190		ELECTRICAL WIRING-WITHIN BLDGS-DR	1.50	1.05	0.44	1.73	1.12	0.45	-13.29%	-6.25%	-2.22%
5191	X	COMPUTER DEV-INSTL/INSPEC/SER/REPR	0.65	0.51	0.52	0.77	0.56	0.53	-15.58%	-8.93%	-1.89%
5192		VEND/COIN OP MACH-INST/SERV-SALE/DR	1.90	1.51	0.53	2.23	1.64	0.54	-14.80%	-7.93%	-1.85%
5213		CONCRETE CONSTRUCTION NOC	3.33	2.23	0.40	3.62	2.24	0.39	-8.01%	-0.45%	2.56%
5215		CONCRETE WORK-PRIVATE RESIDENCES	4.33	3.25	0.46	5.16	3.56	0.45	-16.09%	-8.71%	2.22%
5221		CONCR WK-FLOOR/DRIVEWAY/YDS/WLKS-DR	3.13	2.20	0.44	3.81	2.48	0.45	-17.85%	-11.29%	-2.22%
5222		CONCR CONST-BRIDGE/CULV-OVER 10 FT	7.51	5.02	0.40	7.83	4.84	0.39	-4.09%	3.72%	2.56%
5223	X	SWIMMING POOL CONSTRUCTION-DR	4.00	2.82	0.44	3.85	2.50	0.45	3.90%	12.80%	-2.22%
5348		CERAMIC TILE/STONE/MARBLE/MOSAIC WK	4.96	3.50	0.44	5.57	3.62	0.45	-10.95%	-3.31%	-2.22%
5402	X	GREENHOUSE ERECTION-ALL OPERATIONS	7.86	6.44	0.59	7.61	5.71	0.58	3.29%	12.78%	1.72%
5403	X	CARPENTRY-NOC	4.48	3.00	0.40	4.57	2.83	0.39	-1.97%	6.01%	2.56%
5437	X	CARPENTRY-FINISH WORK ONLY	3.26	2.29	0.44	4.23	2.75	0.45	-22.93%	-16.73%	-2.22%
5443		LATHING & DR	2.36	1.85	0.53	2.73	1.97	0.54	-13.55%	-6.09%	-1.85%
5445	X	WALLBOARD INSTALLATION & DR	7.06	4.72	0.40	8.20	5.07	0.39	-13.90%	-6.90%	2.56%
5462		GLAZIER-AWAY FROM SHOP-& DR	4.66	3.27	0.44	5.34	3.47	0.45	-12.73%	-5.76%	-2.22%
5472	D	ASBESTOS CONTR-PIPE/BOILER/PLUMB-DR	3.17	1.86	0.34	3.28	1.79	0.35	-3.35%	3.91%	-2.86%
5473	D	ASBESTOS CONTRACT-NOC-DR	6.79	3.98	0.34	6.09	3.32	0.35	11.49%	19.88%	-2.86%
5474	X	PAINTING-NOC-& SHOP/DR	4.71	3.16	0.40	4.77	2.96	0.40	-1.26%	6.76%	0.00%
5478		FLOOR COV INSTL/RESLNT/CARPT/LAMINT	3.79	2.66	0.44	4.36	2.83	0.45	-13.07%	-6.01%	-2.22%
5479		INSULATION WORK NOC & DR	3.66	2.75	0.46	4.22	2.92	0.46	-13.27%	-5.82%	0.00%
5480		PLASTERING-NOC-& DRIVERS	3.45	2.31	0.40	3.90	2.41	0.39	-11.54%	-4.15%	2.56%
5491		PAPER HANGING & DR	1.20	0.80	0.40	1.08	0.67	0.39	11.11%	19.40%	2.56%
5506	X	STREET/RD CONST-FNL GRAD/PVE/REP/DR	5.03	3.01	0.34	5.42	3.01	0.35	-7.20%	0.00%	-2.86%
5507		STREET/RD CONST-RDBED/SUBASE-DR	2.85	1.90	0.39	4.05	2.50	0.39	-29.63%	-24.00%	0.00%
5508	D	STREET/RD CONST-ROCK EXCAV-DR	6.33	4.46	0.45	9.00	5.84	0.45	-29.67%	-23.63%	0.00%
5511	X	LOGGING/FOREST RD CONST/MAINT-DR	4.41	2.96	0.40	6.26	3.89	0.40	-29.55%	-23.91%	0.00%
5535	X	SHEET METAL WORK-INSTALLATION & DR	3.24	2.28	0.44	3.70	2.41	0.45	-12.43%	-5.39%	-2.22%
5537	X	AIR CONDITIONING, HEATING, AND REFRIGER	2.60	1.83	0.44	3.08	2.00	0.45	-15.58%	-8.50%	-2.22%
5551		ROOFING-ALL KINDS-DR	9.63	5.80	0.34	11.07	6.18	0.35	-13.01%	-6.15%	-2.86%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
5606	X	CONTRACTOR-EXECUTIVE SUPERVISOR	0.51	0.34	0.40	0.61	0.38	0.40	-16.39%	-10.53%	0.00%
5610		CLEANER-DEBRIS REMOVAL CONSTRUCTION	3.39	2.66	0.53	4.57	3.30	0.54	-25.82%	-19.39%	-1.85%
5645	X	CARPENTRY-DWELLINGS 3 STORIES OR LESS	10.31	6.93	0.40	12.14	7.54	0.40	-15.07%	-8.09%	0.00%
5703	X	BUILDING RAISING OR MOVING & DR	7.22	5.12	0.45	9.00	5.87	0.45	-19.78%	-12.78%	0.00%
5705		SALVAGE OP-NO WRECKING	14.55	10.24	0.44	15.57	10.12	0.45	-6.55%	1.19%	-2.22%
5951		SERUM/ANTI-TOXIN/VIRUS MFG & DR	0.23	0.19	0.58	0.28	0.21	0.57	-17.86%	-9.52%	1.75%
6003	X	PILE DRIVING	3.75	2.63	0.44	4.50	2.92	0.45	-16.67%	-9.93%	-2.22%
6005		DIKE/REVTMENT OR CONST & DR	2.25	1.59	0.44	2.57	1.67	0.45	-12.45%	-4.79%	-2.22%
6017		DAM/LOCK CONST ALL OP-CONCRETE WORK	3.24	2.27	0.44	2.90	1.88	0.45	11.72%	20.74%	-2.22%
6018		DAM/LOCK CONST ALL OP-EARTH MOV-DR	1.30	0.91	0.43	1.52	0.99	0.44	-14.47%	-8.08%	-2.27%
6045		LEVEE CONSTR-ALL OPS & DR	2.65	1.85	0.43	2.88	1.86	0.44	-7.99%	-0.54%	-2.27%
6204	X	DRILLING NOC & DR	4.81	3.22	0.40	5.42	3.35	0.39	-11.25%	-3.88%	2.56%
6206		OIL/GAS-WELL-ACIDIZ/CEMNT-ALL EM/DR	1.67	1.00	0.34	2.16	1.21	0.35	-22.69%	-17.36%	-2.86%
6213		OIL/GAS-SPEC TL OP-BY CONT-AL EM-DR	1.14	0.76	0.40	1.48	0.92	0.39	-22.97%	-17.39%	2.56%
6214		OIL/GAS-PERFORATE-CASE-AL EMP-DR	1.36	0.82	0.34	1.74	0.97	0.35	-21.84%	-15.46%	-2.86%
6216		OILGAS/ LEASE WK-NOC-BY CONTR-DR	3.65	2.19	0.34	4.26	2.38	0.35	-14.32%	-7.98%	-2.86%
6217	X	EXCAVATION-NOC-& DR	2.71	1.81	0.40	3.61	2.24	0.40	-24.93%	-19.20%	0.00%
6229		IRRIGATION/DRAIN SYST CONST & DR	3.44	2.31	0.40	3.92	2.44	0.40	-12.24%	-5.33%	0.00%
6233		OIL/GAS PIPELINE CONSTRUCT & DR	3.81	2.53	0.39	4.34	2.67	0.39	-12.21%	-5.24%	0.00%
6235		OIL/GAS-WELL DRILL-REDRILL-SHOOT/DR	3.02	1.81	0.34	3.69	2.06	0.35	-18.16%	-12.14%	-2.86%
6236		OIL/GAS-WELL-INSTAL/ RCVY/CASING/DR	4.45	3.14	0.44	6.60	4.29	0.45	-32.58%	-26.81%	-2.22%
6237		OIL/GAS-WELL-INSTRM LOG/SURV WK/DR	1.05	0.74	0.44	1.23	0.80	0.45	-14.63%	-7.50%	-2.22%
6251	D	TUNLNG-NOT PNEUMAT-ALL OPER-INC LNG	2.48	1.64	0.39	2.97	1.82	0.39	-16.50%	-9.89%	0.00%
6252	D	CAISSON WORK-ALL OPER TO COMPLETION	2.74	1.63	0.34	3.00	1.66	0.35	-8.67%	-1.81%	-2.86%
6306		SEWER CONSTRUCTION-ALL OPER-DR	2.23	1.50	0.40	2.74	1.70	0.39	-18.61%	-11.76%	2.56%
6319		WATERMAIN CONNEC-CONST & DR	2.83	1.90	0.40	2.67	1.66	0.40	5.99%	14.46%	0.00%
6325	X	CONDUIT CONSTR-FOR CABLE OR WIRE-DR	2.92	1.96	0.40	2.95	1.82	0.39	-1.02%	7.69%	2.56%
6400	X	FENCE INSTALL-REPAIR-MTAL-VNYL-WOOD	4.71	3.52	0.45	5.12	3.53	0.45	-8.01%	-0.28%	0.00%
6504	X	FOOD PRODUCTS MFG-NOC-NO CEREAL MIL	1.64	1.36	0.57	1.81	1.38	0.57	-9.39%	-1.45%	0.00%
6703	MZ	RAILROAD CONSTRUCT-ALL OPER-DR	6.47	4.43	0.44	6.99	4.43	0.45	-7.44%	0.00%	-2.22%
6704	MZ	RAILROAD CONSTRUCT-ALL OPER-DR	3.83	2.74	0.44	3.79	2.51	0.45	1.06%	9.16%	-2.22%
6801	F	BOAT BUILDING-WOOD-NOC-DR	2.58	1.70	0.41	2.76	1.71	0.41	-6.52%	-0.58%	0.00%
6811		BOAT BLDG-WOOD&DRV-STATE ACT	3.72	2.66	0.44	4.55	3.01	0.45	-18.24%	-11.63%	-2.22%
6824	F	BOAT BLDG/REPR/DEMO-NAV WATR/DR	7.19	4.59	0.36	8.30	4.95	0.36	-13.37%	-7.27%	0.00%
6826	F	MARINAS-INCL SALES/PARTS & DR	4.35	2.86	0.41	4.15	2.54	0.41	4.82%	12.60%	0.00%
6834		BOAT BLDG/REP/DEMO-NONNAV WATR/DR	2.26	1.73	0.46	2.96	2.09	0.46	-23.65%	-17.22%	0.00%
6836		MARINAS-INC SLS/PRTS DR-STATE ACT	2.56	1.84	0.45	3.41	2.26	0.45	-24.93%	-18.58%	0.00%
6843	F	SHIP BUILDING-IRON/STEEL-NOC & DR	6.57	3.86	0.28	8.08	4.42	0.29	-18.69%	-12.67%	-3.45%
6845	F	SHIP BUILDING-NAVAL & DR	3.68	2.17	0.28	4.33	2.38	0.29	-15.01%	-8.82%	-3.45%
6854		SHIP BLDG-IRON/ST-DRV STATE ACT	2.10	1.28	0.34	1.90	1.08	0.35	10.53%	18.52%	-2.86%
6872	F	SHIP REPAIR/CONV-ALL OPER-DR	8.24	4.93	0.28	6.83	3.79	0.30	20.64%	30.08%	-6.67%
6873	FX	DIVING-LONGSHORE EXPOSURE ONLY	12.92	7.37	0.28	14.80	7.85	0.29	-12.70%	-6.11%	-3.45%
6874	F	PAINTING-SHIP HULLS	10.89	6.34	0.28	11.17	6.05	0.29	-2.51%	4.79%	-3.45%
6876	X	DIVING-STATE ACT EXPOSURE ONLY	2.98	1.82	0.34	3.60	2.04	0.35	-17.22%	-10.78%	-2.86%
6882		SHIP REP/CONVERSION-DR-STATE ACT	1.96	1.20	0.34	2.55	1.45	0.35	-23.14%	-17.24%	-2.86%
6884		PAINT SHIP HULLS STATE ACT ONLY	3.22	1.96	0.34	4.11	2.32	0.35	-21.65%	-15.52%	-2.86%
7024	M	VESSELS-NOC-STATE ACT	1.58	0.97	0.34	1.95	1.11	0.35	-18.97%	-12.61%	-2.86%
7047	M	VESSELS-NOC-USL&H ACT	2.67	1.57	0.34	3.59	1.96	0.35	-25.63%	-19.90%	-2.86%
7050	M	VESSELS-BOAT LIVERY-USL&H ACT	6.41	3.83	0.35	7.26	3.99	0.35	-11.71%	-4.01%	0.00%
7090	M	VESSELS-BOAT LIVERY-STATE ACT	3.80	2.37	0.35	3.94	2.26	0.35	-3.55%	4.87%	0.00%
7098	M	VESSELS-NOT SELF PROPELLED	1.66	1.02	0.34	1.90	1.08	0.35	-12.63%	-5.56%	-2.86%
7099	M	VESSELS-NOT SELF PROPELLED	2.80	1.65	0.34	3.50	1.91	0.35	-20.00%	-13.61%	-2.86%
7133		RAILRD OP NOC-ALL EMPS-DR-STATE ACT	1.89	1.29	0.40	2.87	1.82	0.40	-34.15%	-29.12%	0.00%
7152	M	RAILROAD-OPERATION OF-INCL DR	4.30	2.82	0.40	7.14	4.34	0.40	-39.78%	-35.02%	0.00%
7153	M	RAILROAD-OPERATION OF-INCL DR	2.55	1.74	0.40	3.87	2.44	0.40	-34.11%	-28.69%	0.00%
7219	X	TRUCKING-NOC-DR	5.16	3.51	0.40	5.94	3.74	0.39	-13.13%	-6.15%	2.56%
7225		AUTOMOBILE TOWING & DRIVERS	5.16	3.51	0.40	-	-	-	N/A	N/A	N/A
7230		TRUCKING-PRCL/PKG DEL-ALL EMP-DR	12.86	9.88	0.46	16.53	11.66	0.45	-22.20%	-15.27%	2.22%
7231		PARCEL DELIVERY-ALL EMP-DR	5.73	4.37	0.46	7.74	5.46	0.45	-25.97%	-19.96%	2.22%
7232		TRUCKING-MAIL/PARL/PKG-AL EMP/DR	5.51	3.73	0.39	7.25	4.57	0.39	-24.00%	-18.38%	0.00%
7309	F	STEVEDORING-NOC	9.17	5.18	0.28	12.22	6.34	0.29	-24.96%	-18.30%	-3.45%
7313	F	COAL/ORE DOCK OPS & STEVEDORING	3.08	1.82	0.28	2.66	1.47	0.29	15.79%	23.81%	-3.45%
7317	FX	STEVEDORING-BY HAND/HAND TRUCK EXCL	8.17	4.72	0.28	8.07	4.30	0.29	1.24%	9.77%	-3.45%
7327	F	STEVEDOR-CONTAINERIZED FREIGHT-DR	9.84	5.95	0.29	9.74	5.49	0.30	1.03%	8.38%	-3.33%
7335	M	DREDGING-ALL TYPES	1.74	1.05	0.34	2.20	1.24	0.34	-20.91%	-15.32%	0.00%
7337	M	DREDGING-ALL TYPES	2.94	1.70	0.34	4.05	2.19	0.34	-27.41%	-22.37%	0.00%
7350	FX	FREIGHT HANDLER-NOC-USL&H	19.47	11.83	0.35	19.62	11.14	0.36	-0.76%	6.19%	-2.78%
7360	X	FREIGHT HANDLER-NOC-STATE ACT COV	3.21	2.32	0.45	4.03	2.68	0.45	-20.35%	-13.43%	0.00%
7370		TAXICAB CO-ALL OTHER EMP & DR	3.90	3.11	0.53	4.00	2.93	0.54	-2.50%	6.14%	-1.85%
7380	X	DRIVERS/CHAUFFRS/MESSENGRS & HELPR	2.92	2.23	0.46	3.32	2.34	0.45	-12.05%	-4.70%	2.22%
7382		BUS CO-ALL EMP/DR-OTHER THAN GARAGE	2.30	1.83	0.53	2.66	1.95	0.54	-13.53%	-6.15%	-1.85%
7390	X	BEER OR ALE DEALER-SALES & DRS	1.69	1.34	0.52	2.17	1.59	0.53	-22.12%	-15.72%	-1.89%
7395	M	DIVING-MARINE	1.84	1.12	0.34	2.20	1.25	0.35	-16.36%	-10.40%	-2.86%
7398	M	DIVING-MARINE	3.10	1.81	0.34	4.05	2.21	0.35	-23.46%	-18.10%	-2.86%
7402		AVIATION-AIR TRFIC CNTLR FAA CNTRC	0.10	0.08	0.53	0.11	0.08	0.54	-9.09%	0.00%	-1.85%
7403		AVIATION-ALL OTHER EMPLOYEES & DR	2.62	1.88	0.44	2.64	1.75	0.45	-0.76%	7.43%	-2.22%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
7405	N	AVIATION-CARRIER SCH/COMMUT-FLY CRW	1.08	0.78	0.45	1.33	0.88	0.45	-18.80%	-11.36%	0.00%
7420		AVIATION-STUNT/RACE/PARA JMP FLY CR	2.92	1.77	0.34	3.72	2.11	0.34	-21.51%	-16.11%	0.00%
7421	X	AVIATION-FLY PERSNL FOR BUS/FLY CREW	1.05	0.72	0.40	1.71	1.09	0.41	-38.60%	-33.94%	-2.44%
7422		AVIATION-NOC-NOT HELICOPT-FLY CREW	1.24	0.75	0.34	1.20	0.68	0.35	3.33%	10.29%	-2.86%
7425		HELICOPTER OP-NOC-FLY CREW MEMBERS	2.18	1.32	0.34	2.84	1.61	0.34	-23.24%	-18.01%	0.00%
7431	N	AVIATION-AIR CHART/TAXI-FLY CREW	0.56	0.34	0.34	0.62	0.35	0.35	-9.68%	-2.86%	-2.86%
7502		GAS CO-NAT GAS LOCAL DIST-DR	2.28	1.65	0.45	2.67	1.78	0.46	-14.61%	-7.30%	-2.17%
7515		OIL/GAS PIPELINE OPERATION & DR	0.81	0.50	0.34	0.97	0.55	0.35	-16.49%	-9.09%	-2.86%
7520		WATERWORKS OPERATION-DR	1.78	1.42	0.53	2.08	1.53	0.54	-14.42%	-7.19%	-1.85%
7538		ELEC LIGHT/PWR LINE CONST-INC DR	5.30	3.17	0.34	6.40	3.56	0.35	-17.19%	-10.96%	-2.86%
7539	X	ELEC POWER CO-NOC-ALL EMPS & DR	1.25	0.85	0.40	1.69	1.07	0.40	-26.04%	-20.56%	0.00%
7580		SEWAGE DISPOSAL PLANT OPER-DR	1.65	1.19	0.45	2.04	1.35	0.45	-19.12%	-11.85%	0.00%
7590		GARBAGE WORK/REDUCTION INCINERATOR	1.92	1.47	0.45	2.07	1.46	0.45	-7.25%	0.68%	0.00%
7600	X	TELECOM CO CABLE/TV/SAT-ALL EMP & DR	2.26	1.62	0.44	2.43	1.61	0.45	-7.00%	0.62%	-2.22%
7605		BURGLAR & FIRE ALARM-INSTLL/REPR/DR	1.90	1.34	0.44	2.20	1.43	0.45	-13.64%	-6.29%	-2.22%
7610	X	RADIO STATION-ALL EMPS/CLER/DR	0.35	0.27	0.46	0.42	0.30	0.46	-16.67%	-10.00%	0.00%
7705	X	AMBULANCE/EMS (EMER-MED-SER) & DRS	3.31	2.53	0.46	4.32	3.05	0.45	-23.38%	-17.05%	2.22%
7710	X	FIREFIGHTERS AND DRIVERS	2.42	1.65	0.40	3.04	1.92	0.40	-20.39%	-14.06%	0.00%
7720	X	POLICE OFFICERS & DR	2.03	1.46	0.45	2.10	1.40	0.45	-3.33%	4.29%	0.00%
7729	X	SELF-INSURED SEARCH-RESCUE VOLUNTER	1.44	1.04	0.45	1.76	1.17	0.46	-18.18%	-11.11%	-2.17%
7855		RAILRD CONST LAY TRAK/MAIN-CONTR-DR	2.89	2.03	0.44	2.87	1.86	0.45	0.70%	9.14%	-2.22%
8001		FLORIST-STORE-DR	1.68	1.40	0.58	1.93	1.47	0.57	-12.95%	-4.76%	1.75%
8002		AUTO RNT-SHT TRM-AL OTH-COUNT/DR	2.35	1.90	0.55	2.47	1.83	0.55	-4.86%	3.83%	0.00%
8006		GROCERY/PROV-CONVENIENCE-RETAIL	1.25	1.00	0.54	1.47	1.08	0.55	-14.97%	-7.41%	-1.82%
8008		CLOTHING/DRY GOODS-RETAIL STORE	0.72	0.60	0.58	0.81	0.62	0.57	-11.11%	-3.23%	1.75%
8010		HARDWARE STORE-RETAIL OR WHOLESALE	0.85	0.70	0.57	1.01	0.77	0.56	-15.84%	-9.09%	1.79%
8013		JEWELRY STORE	0.28	0.22	0.53	0.32	0.24	0.54	-12.50%	-8.33%	-1.85%
8015		QUICK PRNT-CPY/DUP-AL EMP-CL/SL/DR	0.51	0.41	0.53	0.64	0.47	0.54	-20.31%	-12.77%	-1.85%
8017	X	RETAIL STORE-NOT OTHRWSE CLASSIFIED	0.76	0.63	0.57	0.83	0.63	0.57	-8.43%	0.00%	0.00%
8018	X	WHOLESALE STORE-NOC	1.45	1.19	0.57	1.66	1.26	0.56	-12.65%	-5.56%	1.79%
8021	X	MEAT/FISH/POULTRY DLR-WHOLESALE	3.07	2.47	0.54	3.21	2.37	0.55	-4.36%	4.22%	-1.82%
8031	X	MEAT/FISH/POULTRY-RETAIL STORE	1.66	1.33	0.53	2.09	1.54	0.54	-20.57%	-13.64%	-1.85%
8032		CLOTHING/DRY GOODS-WHOLESALE STORE	1.13	0.93	0.57	1.48	1.13	0.57	-23.65%	-17.70%	0.00%
8033	X	MEAT-GROCERY-RETAIL STORE-NOC	1.43	1.14	0.54	1.60	1.18	0.55	-10.63%	-3.39%	-1.82%
8037		STORE-SUPERSTORE & WAREHOUSE CLUBS	1.69	1.40	0.57	1.54	1.17	0.57	9.74%	19.66%	0.00%
8039		DEPARTMENT STORE-RETAIL	1.16	0.96	0.58	1.35	1.03	0.57	-14.07%	-6.80%	1.75%
8044		FURNITURE-STORE-DR	1.92	1.47	0.46	2.16	1.53	0.46	-11.11%	-3.92%	0.00%
8046	X	AUTO ACCESSRY STORE-RETL/WHL-NOC-DR	1.08	0.86	0.54	1.19	0.87	0.54	-9.24%	-1.15%	0.00%
8047		DRUG STORE-WHOLESALE	0.64	0.53	0.57	0.63	0.48	0.56	1.59%	10.42%	1.79%
8058	X	BUILD MAT DLR-NEW/USED STOR EM ONLY	1.14	0.91	0.54	1.40	1.03	0.54	-18.57%	-11.65%	0.00%
8102	X	SEED MERCHANT	2.19	1.81	0.57	2.23	1.70	0.57	-1.79%	6.47%	0.00%
8103		WOOL MERCHANT INCLUDING WAREHOUSE	1.48	1.14	0.47	1.79	1.27	0.46	-17.32%	-10.24%	2.17%
8106		IRON/STEEL MERCHANT-DR	3.02	2.17	0.44	3.50	2.32	0.45	-13.71%	-6.47%	-2.22%
8107	X	MACHINERY-DLR-NOC-INCL DR	2.32	1.66	0.44	2.83	1.88	0.45	-18.02%	-11.70%	-2.22%
8111		PLUMBERS SUPPLY DEALER-DR	1.17	0.93	0.53	1.35	0.99	0.54	-13.33%	-6.06%	-1.85%
8112	X	MACH DLR-SLS-YRD/SHOWROM-INC DEMO	0.89	0.64	0.45	1.10	0.73	0.45	-19.09%	-12.33%	0.00%
8116	X	FARM MACHINERY-DLR-INCL DR	1.64	1.31	0.54	1.77	1.31	0.54	-7.34%	0.00%	0.00%
8203		ICE DEALER/MFG/HARVEST- DR	5.08	4.05	0.53	5.36	3.94	0.54	-5.22%	2.79%	-1.85%
8209	X	VEGETABLE PACKING-DR	3.08	2.47	0.54	3.18	2.35	0.55	-3.14%	5.11%	-1.82%
8215	X	HAY/GRAIN/FEED DLR & LOC MGR/DR	2.16	1.56	0.45	3.32	2.20	0.45	-34.94%	-29.09%	0.00%
8227	X	CONSTRUCTION/ERECT PERMANENT YARD	1.82	1.09	0.34	2.07	1.16	0.35	-12.08%	-6.03%	-2.86%
8232	X	BUILDING MAT DLR-ALL OTHR EMP/DR	3.48	2.50	0.45	4.09	2.72	0.45	-14.91%	-8.09%	0.00%
8233		COAL MERCHANT & LOCAL MGR/DR	2.04	1.45	0.43	2.31	1.53	0.44	-11.69%	-5.23%	-2.27%
8263		JUNK DEALERS & DR	3.19	2.46	0.47	3.81	2.70	0.46	-16.27%	-8.89%	2.17%
8264	X	BOTTLE DEALER-USED & DRIVERS	3.52	2.54	0.45	4.45	2.96	0.46	-20.90%	-14.19%	-2.17%
8265		IRON/STEEL SCRAP DLR & DR	4.00	2.75	0.41	4.19	2.66	0.40	-4.53%	3.38%	2.50%
8279		STABLE OR BREEDING FARM & DR	4.97	3.42	0.41	4.94	3.13	0.40	0.61%	9.27%	2.50%
8288	X	LIVESTOCK DEALER & SLS/DR	4.63	3.36	0.46	6.02	4.02	0.46	-23.09%	-16.42%	0.00%
8291		STORAGE WAREHOUSE-COLD	2.47	1.89	0.45	2.91	2.05	0.45	-15.12%	-7.80%	0.00%
8292		STORAGE WRHSE-NOC-COMMERCIAL PUBLIC	2.80	2.24	0.54	4.05	2.98	0.55	-30.86%	-24.83%	-1.82%
8293		STORAGE WAREHOUSE-FURNITURE-DR	7.15	5.14	0.44	8.04	5.34	0.45	-11.07%	-3.75%	-2.22%
8304		GRAIN ELEV OPER & LOCAL MGR/DR	3.34	2.39	0.44	3.48	2.30	0.45	-4.02%	3.91%	-2.22%
8350		GASOLINE OR OIL DEALERS & DR	3.90	2.65	0.40	3.55	2.24	0.39	9.86%	18.30%	2.56%
8380	X	AUTO-SALES/SERV/REPR-AGENCY-DR	1.93	1.47	0.46	2.42	1.71	0.45	-20.25%	-14.04%	2.22%
8385		BUS COMPANY-GARAGE EMPLOYEES	1.54	1.11	0.45	1.82	1.21	0.45	-15.38%	-8.26%	0.00%
8392		AUTO PARK LOT/VALET/CASH/COUNTR/DR	1.64	1.32	0.54	1.90	1.40	0.55	-13.68%	-5.71%	-1.82%
8393	X	AUTO BODY RPR-METL-UPHLS-PAINT-DR	1.57	1.25	0.52	1.97	1.44	0.53	-20.30%	-13.19%	-1.89%
8411	X	FIREFIGHTERS	0.85	0.53	0.35	1.22	0.70	0.35	-30.33%	-24.29%	0.00%
8500		METAL SCRAP DEALER & DR	3.95	2.83	0.44	3.83	2.55	0.45	3.13%	10.98%	-2.22%
8601	X	ARCHITECT OR ENGINEER FIRM-SALES/DR	0.19	0.15	0.46	0.21	0.15	0.46	-9.52%	0.00%	0.00%
8602	X	TIMBER CRUISING & DRIVERS	1.02	0.78	0.46	0.97	0.68	0.46	5.15%	14.71%	0.00%
8606		GEOPHYSICL EXPL-SEISMIC-AL EMP-DR	1.45	0.99	0.40	1.87	1.18	0.40	-22.46%	-16.10%	0.00%
8709	F	STEVEDORING-TALLIERS/CHECKING CLERK	3.40	2.01	0.28	3.42	1.87	0.29	-0.58%	7.49%	-3.45%
8719		TALLIERS AND CHECKING CLERKS-ST ACT	2.90	1.77	0.34	4.37	2.47	0.34	-33.64%	-28.34%	0.00%
8720		INSPECT RISK/INSUR OR VALUATION-NOC	0.75	0.54	0.44	0.87	0.58	0.45	-13.79%	-6.90%	-2.22%
8723		INSURANCE COMPANY-INCL-CLERICAL & SALES	0.12	0.09	0.54	0.13	0.09	0.54	-7.69%	0.00%	0.00%

Comparison of 2018 and 2017 Pures, Expected Loss Rates, and D Ratios

Class	Sub	Description	2018 Pure	2018 ELR	2018 D Ratio	2017 Pure	2017 ELR	2017 D Ratio	Pure % Change	ELR % Change	D Ratio % Change
8725		INVENTORY COUNTERS/TRAVEL/SALES/CLE	1.59	1.15	0.45	1.65	1.10	0.46	-3.64%	4.55%	-2.17%
8726	F	STEAMSHIP LINE-SUPR/CAP/ENG/STEW/CLK	1.78	1.15	0.41	2.01	1.22	0.41	-11.44%	-5.74%	0.00%
8734	M	RAILROAD-SALES/COLLECT/MESS-OUTSIDE	0.19	0.13	0.45	0.24	0.16	0.46	-20.83%	-18.75%	-2.17%
8738	M	RAILROAD-SALES/COLLECT/MESS-OUTSIDE	0.32	0.22	0.45	0.45	0.29	0.46	-28.89%	-24.14%	-2.17%
8742	X	SALESPERSON-OUTSIDE-NO DELIVERY	0.14	0.10	0.45	0.18	0.12	0.46	-22.22%	-16.67%	-2.17%
8745		NEWS AGENT-NOT RETAIL-SLS/DR	3.23	2.47	0.46	3.80	2.68	0.45	-15.00%	-7.84%	2.22%
8748	X	AUTOMOBILE SALESPERSONS	0.37	0.28	0.46	0.48	0.34	0.46	-22.92%	-17.65%	0.00%
8755		LABOR UNION-ALL EMPLOYEES	0.24	0.18	0.45	0.29	0.19	0.46	-17.24%	-5.26%	-2.17%
8800	X	MAILING CO & CLERICAL	1.22	1.05	0.62	1.10	0.87	0.60	10.91%	20.69%	3.33%
8803	X	ACCOUNTANT, AUDITOR-TRAVEL	0.04	0.03	0.44	0.05	0.03	0.45	-20.00%	0.00%	-2.22%
8805	M	RAILROAD OPER-CLER OFFICE EMPL	0.11	0.09	0.55	0.14	0.10	0.55	-21.43%	-10.00%	0.00%
8810	X	OFFICE CLERICAL	0.08	0.07	0.55	0.10	0.08	0.55	-20.00%	-12.50%	0.00%
8815	M	RAILROAD OPER-CLER OFFICE EMPL	0.18	0.15	0.55	0.25	0.19	0.55	-28.00%	-21.05%	0.00%
8820		ATTORNEY & CLER/MESSENGER/DR	0.10	0.07	0.46	0.10	0.07	0.46	0.00%	0.00%	0.00%
8824	X	RETIREMENT CTR-HEALTH CARE EMPLOY	2.10	1.74	0.57	2.59	1.97	0.57	-18.92%	-11.68%	0.00%
8825	X	RETIREMENT CTR-KITCHEN EMPLOYEES	1.31	1.14	0.62	1.63	1.30	0.61	-19.63%	-12.31%	1.64%
8826	X	RETIREMENT CTR-ALL OTHER EMPLOYEES	1.30	1.04	0.54	1.50	1.11	0.55	-13.33%	-6.31%	-1.82%
8831		VETERINARY CLINIC & DR	0.87	0.70	0.55	0.98	0.73	0.55	-11.22%	-4.11%	0.00%
8832		PHYSICIAN & CLERICAL	0.23	0.19	0.54	0.28	0.21	0.55	-17.86%	-9.52%	-1.82%
8833	X	HOSPITAL-PROFESSIONAL EMPLOYEES	0.69	0.55	0.53	0.78	0.58	0.54	-11.54%	-5.17%	-1.85%
8835	X	NURSE-HOME HEALTH/PUBLIC-TRVL-AL EMP	1.83	1.46	0.54	2.32	1.71	0.54	-21.12%	-14.62%	0.00%
8842	X	HEALTH GRP CARE HOME-DR	1.66	1.34	0.54	1.95	1.44	0.55	-14.87%	-6.94%	-1.82%
8853	X	PUBLIC TEACH HOSP-ALL EMP/CL/SLS/DR	0.24	0.20	0.56	0.26	0.20	0.56	-7.69%	0.00%	0.00%
8855		BANKS-TRUST CO-ALL EMPL-SALES-CLER & DR	0.11	0.09	0.54	0.14	0.10	0.55	-21.43%	-10.00%	-1.82%
8856		CHECK CASH RETL-ALL EMPL-SALES-DR-CLR	0.17	0.14	0.53	0.16	0.12	0.54	6.25%	16.67%	-1.85%
8864	X	SOC SERV ORGAN-ALL OTHER EMPLOYE & DRVS	1.31	1.06	0.54	1.56	1.15	0.55	-16.03%	-7.83%	-1.82%
8868	X	SCHOOL-PROFESSIONAL EMP & CLERICAL	0.29	0.24	0.58	0.32	0.25	0.58	-9.38%	-4.00%	0.00%
8869	X	CHILD DAY CARE CENTR-ALL EMPLOYEES	0.69	0.57	0.58	0.79	0.60	0.57	-12.66%	-5.00%	1.75%
8877	X	SOC.SRVC-CLINICAL COUNSEL-ADMIN&SALES	0.18	0.14	0.54	0.17	0.12	0.55	5.88%	16.67%	-1.82%
8901		TELEPHONE CO OFFICE EMPL/CLER	0.14	0.11	0.46	0.18	0.13	0.45	-22.22%	-15.38%	2.22%
8989	X	DOMESTICS-HOUSEHOLD-INSIDE-DR	1.46	1.05	0.45	1.54	1.02	0.45	-5.19%	2.94%	0.00%
9012	X	BUILDING MANAGEMENT,AGENTS,CLERIC,SALES	0.31	0.24	0.46	0.28	0.20	0.46	10.71%	20.00%	0.00%
9014	X	JANITORIAL SERV-SPEC CONTR-DR	2.44	1.95	0.53	2.94	2.16	0.54	-17.01%	-9.72%	-1.85%
9015	X	BUILDINGS-OPS BY OWNER/LESSEE & DRIVERS	1.97	1.57	0.53	2.18	1.60	0.54	-9.63%	-1.88%	-1.85%
9016		AMUSEMENT PARK OPERATION	1.51	1.21	0.54	1.79	1.32	0.55	-15.64%	-8.33%	-1.82%
9019		TUNNEL OR BRIDGE OPERATION & DR	1.26	0.91	0.45	1.55	1.03	0.46	-18.71%	-11.65%	-2.17%
9040	X	HOSPITAL-AL OTR EMPLOY-NONPROF	1.88	1.55	0.57	2.36	1.80	0.56	-20.34%	-13.89%	1.79%
9052		HOTEL/MOTEL-ALL OTHER EMPLOY-SALES, DRS	1.72	1.43	0.58	1.88	1.43	0.57	-8.51%	0.00%	1.75%
9060		CLUB-COUNTRY/GOLF/YACHT-CLERIC/SALES/DR	0.86	0.71	0.57	1.03	0.79	0.57	-16.50%	-10.13%	0.00%
9061	X	CLUB-NOC-CLERICAL & DR	1.12	0.96	0.61	1.36	1.08	0.60	-17.65%	-11.11%	1.67%
9062	X	CASINO	1.24	1.08	0.63	1.32	1.05	0.61	-6.06%	2.86%	3.28%
9063	X	COMMUNITY/SPORTS/CTRS-ALL EMP/CLER	0.55	0.46	0.58	0.74	0.56	0.57	-25.68%	-17.86%	1.75%
9077	F	US ARMED SERVICE RISK-AL EMP-DR	2.45	1.69	0.50	2.43	1.59	0.51	0.82%	6.29%	-1.96%
9079	X	RESTAURANT & DR	0.88	0.77	0.63	1.04	0.83	0.61	-15.38%	-7.23%	3.28%
9089		BILLARD HALL-NO BOWLING ALLEY	0.69	0.57	0.59	0.85	0.65	0.58	-18.82%	-12.31%	1.72%
9093	X	BOWLING LANE-INCLUDING BILLARDS	0.97	0.81	0.58	1.12	0.85	0.57	-13.39%	-4.71%	1.75%
9101	X	RELIGIOUS ORGAN-AL OTHER EMP	2.19	1.80	0.57	2.57	1.95	0.57	-14.79%	-7.69%	0.00%
9102		LAWN MAINT-COMM/DOMEST-DR	2.21	1.76	0.53	2.54	1.87	0.54	-12.99%	-5.88%	-1.85%
9154	X	THEATRE NOC-ALL OTHER EMPLOYEES	1.06	0.85	0.54	1.47	1.08	0.55	-27.89%	-21.30%	-1.82%
9156		THEATRE NOC-PLAYR-ENTERT/MUSIC	1.49	1.15	0.47	1.80	1.28	0.46	-17.22%	-10.16%	2.17%
9178		ATHLETIC SPORTS: NONCONTACT	3.99	3.44	0.62	4.66	3.71	0.61	-14.38%	-7.28%	1.64%
9179		ATHLETIC SPORTS: CONTACT	6.77	5.61	0.58	6.10	4.63	0.56	10.98%	21.17%	3.57%
9180		AMUSEMENT DEVICE OP/NO TRAVL-DR	5.15	3.75	0.46	6.35	4.25	0.47	-18.90%	-11.76%	-2.13%
9182		ATHLETIC TEAM/PARK OPERATION-DR	1.11	0.89	0.54	1.46	1.08	0.55	-23.97%	-17.59%	-1.82%
9186		AMUSEMENT DEVICE OP/TRALING-DR	9.10	6.28	0.41	8.52	5.41	0.40	6.81%	16.08%	2.50%
9220		CEMETERY OPERATION-DR	3.90	3.00	0.47	4.60	3.26	0.46	-15.22%	-7.98%	2.17%
9310	X	LOG TRUCK DRIVER	5.65	4.01	0.43	6.12	4.04	0.44	-7.68%	-0.74%	-2.27%
9315	X	PLANE/MOLD/SAWMILL-MAINT/SECURITY EMPLS	1.79	1.29	0.45	2.36	1.57	0.45	-24.15%	-17.83%	0.00%
9328	X	TRUCKMNMOC-GARGE/DCK/WRHS-EMP	2.36	1.69	0.44	2.86	1.90	0.45	-17.48%	-11.05%	-2.22%
9349	X	SCHOOL-CAFETERIA/KITCHEN EMPL	2.07	1.72	0.58	2.34	1.79	0.57	-11.54%	-3.91%	1.75%
9351	X	GARBAGE COLLECTION-GARAGE EMP	2.87	2.08	0.45	4.34	2.89	0.46	-33.87%	-28.03%	-2.17%
9366	X	HOSPITAL-CAFETERIA/KITCHEN-EMPL	1.52	1.26	0.57	1.89	1.44	0.57	-19.58%	-12.50%	0.00%
9402		STREET CLEANING-DR	3.45	2.48	0.44	3.88	2.57	0.45	-11.08%	-3.50%	-2.22%
9403	X	GARBAGE/ASH/REFUSE COLLECTN DR	2.92	1.99	0.40	3.72	2.35	0.40	-21.51%	-15.32%	0.00%
9410		MUNICIPAL/TWN/CNTY/STATE EMP-NOC	0.92	0.73	0.53	1.08	0.80	0.54	-14.81%	-8.75%	-1.85%
9501	X	PAINTING-SHOP ONLY-DR	1.54	1.18	0.46	1.99	1.40	0.46	-22.61%	-15.71%	0.00%
9505		AUTOMOBILE BODY PAINTING	2.64	2.02	0.46	3.10	2.19	0.46	-14.84%	-7.76%	0.00%
9516		ELCTRNC EQUP-INSTL/SER/REPR/SHP- DR	2.73	1.95	0.44	3.33	2.20	0.44	-18.02%	-11.36%	0.00%
9519	X	HOUSEHLD/COMMERCIAL APPL-ELECT-INSTL/SE	3.22	2.31	0.44	3.80	2.52	0.45	-15.26%	-8.33%	-2.22%
9521		HOUSE FURNISHING INSTL-NOC-UPHOL	2.77	2.00	0.45	3.24	2.15	0.45	-14.51%	-6.98%	0.00%
9522		FURNITURE UPHOLSTERING	2.10	1.68	0.53	1.97	1.45	0.54	6.60%	15.86%	-1.85%
9534	X	MOBIL CRANE SRV-NOC-AL OP/YD-DR	3.33	2.21	0.39	3.35	2.07	0.39	-0.60%	6.76%	0.00%
9554	X	SIGN-INSTL/MAIN/REPR/REMV-DR	4.41	2.96	0.40	5.61	3.48	0.40	-21.39%	-14.94%	0.00%
9586		BARBER SHOP OR BEAUTY PARLOR	0.60	0.51	0.61	0.77	0.61	0.60	-22.08%	-16.39%	1.67%
9600		TAXIDERMIST	1.29	1.06	0.56	1.52	1.15	0.56	-15.13%	-7.83%	0.00%
9620		FUNERAL DIRECTOR-DR	1.62	1.25	0.47	1.77	1.26	0.46	-8.47%	-0.79%	2.17%