

- 1 **Q.** Reference: *Fair Return and Capital Structure for Newfoundland Power (NP)*,
2 Evidence of Laurence D. Booth, April 2024, Appendix C.
3
4 Please provide the data used to create Schedules 5, 9 and 12 of Appendix C in Excel
5 executable format with all formulas intact.
6
7 **A.** Provided as Dr. Booth answers to NP-CA-024 as Attachment 1, Attachment 2, and
8 Attachment 3.

NP-CA-024, Attachment 1
NP 2025-2026 General Rate Application

	TSX COMP TSX Ret	Hydro one H	CUL Return	Emera Return	Enbridge Return	Fortis Return	GZM.UN GMI Return	PPL	TAU TAU Return	TRP TRP Return	Veresen VSN FRTC Ret	AQN
1988-01-29	-0.03		0.038462			-0.052632		0		-0.134921		
1988-02-29	0.05		0.016049			0.121944		-0.045614	0.024696	-0.027523		
1988-03-31	0.04		-0.012346			-0.012579		-0.086538	-0.017241	0.022264		
1988-04-29	0.01		-0.00625			-0.019108		0.107368	-0.026319	0.11216		
1988-05-31	-0.02		-0.065167			0.018623		-0.160784	0.052613	-0.092437		
1988-06-30	0.06		0.041096			-0.006494		-0.028571	-0.028097	0.04963		
1988-07-29	-0.02		0.019737			-0.019908		-0.355	0	-0.0625		
1988-08-31	-0.02		-0.021677			0.037057		0.312	-0.019286	-0.028571		
1988-09-30	0.00		0.013423			0.045762			0.046296	0.062353		
1988-10-31	0.04		0.05298			0			0.035398	0.009346		
1988-11-30	-0.03		-0.008302			-0.00175			-0.034872	0.048296		
1988-12-30	0.03		0.012903			0.019108			0	0.073982		
1989-01-31	0.07		-0.012739			0.00625			0.009009	-0.016667		
1989-02-28	-0.01		-0.008516			0.010683			-0.018571	0.018949		
1989-03-31	0.01		0.033113			0.01876			0.018519	0.086333		
1989-04-28	0.02		0.026841			0.03681			0.009091	0		
1989-05-31	0.03		0.048			0.022012			0.08036	-0.085271		
1989-06-30	0.02		0.042424			0.035294			0	0.003051		
1989-07-31	0.06		0.023256			0.005682			0.016949	0.034188		
1989-08-31	0.01		-0.064318			0.015367			-0.050667	0.090909		
1989-09-29	-0.01		0			0.00565			0	0.025465		
1989-10-31	0.00		-0.006173			-0.011236			0.009929	0		
1989-11-30	0.01		0.041739			0.0276			0.043694	0.014925		
1989-12-29	0.01		0.060606			0.005618			-0.017241	0.01		
1990-01-31	-0.07		-0.074286			-0.011173			-0.036088	-0.007353		
1990-02-28	0.00		-0.032693			-0.023503			-0.009456	-0.02963		
1990-03-30	-0.01		0.032467			-0.011765			0.009346	0.033282		
1990-04-30	-0.08		-0.081761			-0.047619			-0.083333	-0.11194		
1990-05-31	0.08		0.066575			0.03025			0.060202	0.033613		
1990-06-29	-0.01		0			-0.006173			-0.038835	0.059637		
1990-07-31	0.01		0.026144			-0.006211			-0.060606	-0.031006		
1990-08-31	-0.06		0.010965			0.03025			0.085691	0.088		
1990-09-28	-0.05		-0.019231			-0.012346			-0.090909	-0.092941		
1990-10-31	-0.02		0.039216			0.025			0.077778	0.040984		
1990-11-30	0.03		-0.007799			0.072927			0.030515	0.070866		
1990-12-31	0.04		0.051613			0			-0.030612	0.010588		
1991-01-31	0.01		0.018405			0.017341			0.084211	-0.022059		
1991-02-28	0.06		-0.025542			0.056569			0.028738	0.037594		
1991-03-28	0.01		-0.025157			-0.043716			-0.067692	0.032174		
1991-04-30	-0.01		0.006452			0.022857			0.030612	-0.021277		
1991-05-31	0.03		0.024103		Enbridge	0.044469			0.009505	0.036232		
1991-06-28	-0.02		-0.025478		0.004132	-0.027174			-0.02	-0.017902		
1991-07-31	0.02		0		-0.020576	0.011173			0.040816	-0.021583		
1991-08-30	0.00		0.018039		0.02521	0.021878			0.019216	-0.022059		
1991-09-30	-0.03		0.019608		0.016667	-0.021978			-0.009804	-0.011729		
1991-10-31	0.04		0.070513		0.016393	0.039326			0.069307	0.046154		
1991-11-29	-0.02		0.010539		0.009065	0.028811			0.009899	0.022059		
1991-12-31	0.02		0		0.052846	0.026738			0.009346	0.018129		
1992-01-31	0.03		0.006024		0.084942	-0.016825			0	0		
1992-02-28	0.00		-0.049102		0.008889	-0.047891			-0.037407	-0.035714		
1992-03-31	-0.04		-0.012821		-0.085202	-0.00665			-0.029412	-0.01837		
1992-04-30	-0.02		0.032467		-0.019608	-0.006682			0.020202	0.015267		
1992-05-29	0.01		-0.026415		-0.005	0.005486			0.029307	0.015038		
1992-06-30	0.00		0.078947		0.020513	0.00578			0.069627	0.040889		
1992-07-31	0.02		0.054878		0.01005	0.005747			0.018349	0.043165		
1992-08-31	-0.01		0.027746	Emera	0.029861	0.056814			0.044685	0.013793		
1992-09-30	-0.03		-0.017143	-0.022727	-0.024631	0			-0.061404	-0.016871		
1992-10-30	0.01		0.034884	0.075561	-0.010101	0.06044			0.056075	0.006993		
1992-11-30	-0.01		-0.051685	-0.054945	-0.02651	-0.051606			-0.026903	-0.020833		
1992-12-31	0.02		-0.012048	0	-0.016043	0.088889	GMI		0.018519	0.011915		
1993-01-29	-0.01		0.012195	-0.005814	0.081522	0.015306			-0.027273	-0.042563		
1993-02-26	0.05		0.011084	0.02381	0.025126	-0.014874			-0.019065	0.051852		
1993-03-31	0.05		0.054545	0.023256	0.04	0.005181	0.023256		0.058252	0.061127		
1993-04-30	0.05		0.034463	0.051136	0.052885	0	0.045455		0.027523	0.020134		
1993-05-31	0.03		0.026889	0.021978	0.045682	0.036289	0.043478		0.035357	-0.013158		
1993-06-30	0.03		0.054945	0.010753	0.008889	0.030303	-0.020833		0.04386	0.077867		
1993-07-30	0.00		0.020833	0.037234	0.070485	0.029412	0.031915		0.016807	0.0625		
1993-08-31	0.04		0.019592	0.041667	-0.028807	0.033524	0.010309		-0.033388	-0.011765		
1993-09-30	-0.03		-0.015228	0	0	0.004873	-0.040816		0.006698	-0.031667		
1993-10-29	0.07		0.056701	0.055	0.034483	0.060465	0.053191		0.051724	0.006211		
1993-11-30	-0.02		0.008976	0	0.075	-0.016667	0.050505		0.007869	-0.012346		
1993-12-31	0.04		0.004902	0	0.015748	0.036199	0.032115		0.008264	0.01776		
1994-01-31	0.05		0.043902	0.024231	0.050388	0.026201	0.057143		0.057377	0.012422		
1994-02-28	-0.03		-0.033271	-0.009524	-0.00738	0.000851	0.036036		-0.00031	-0.02454		
1994-03-31	-0.02		-0.04902	-0.076923	-0.056604	-0.047414			-0.07874	-0.05761		
1994-04-29	-0.01		0.005155	-0.006	-0.012	-0.058824			0	0.008757		
1994-05-31	0.02		-0.000615	-0.010638	-0.004049	0.005769	0.019608		0.025299	-0.033567		
1994-06-30	-0.07		-0.052083	-0.043011	-0.053718	-0.043689	-0.044808		-0.033898	-0.070556		
1994-07-29	0.04		0.021978	0.017079	0.026201	0.005076	-0.020519		0	0.037879		
1994-08-31	0.04		0.031613	0.033708	-0.004265	0.076788	0.073684		0.052281	0.080282		
1994-09-30	0.00		-0.010682	-0.01087	0.004348	0.009524	-0.001765		-0.016949	-0.021351		
1994-10-31	-0.01		0.059476	-0.005275	0.004329	0.023585			-0.008621	-0.027972		
1994-11-30	-0.04		-0.031066	0.022472	-0.034483	-0.016774			-0.026435	0.007194		
1994-12-30	0.03		0.021277	-0.021978	0.036364	-0.019048			0.064545	-0.007143		
1995-01-31	-0.05		-0.020833	0.006292	-0.039474	-0.038835			-0.060345	0.021898		
1995-02-28	0.03		-0.042979	0.022727	0.077626	0.011919	0.0825		0.045505	0.05		
1995-03-31	0.05		0.028249	0.022222	0.043103	0.045685	0.04549		0.008929	-0.013605		
1995-04-28	-0.01		0.021978	0.027826	0.004132	-0.019417	0.038462		-0.00885	0.006993		
1995-05-31	0.04		0.026452	0.021505	0.004115	0.036436	0.027778		0.035357	0.006944		

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1995-06-30	0.02	0.021277	-0.031579	0.008333	0.004854	0.032793	0.017644	0.027586		
1995-07-31	0.02	0.041667	0.049565	-0.024793	0.024155	-0.017857	-0.008621	0.013605		
1995-08-31	-0.02	-0.0104	-0.031579	0.063559	0.053585	0.036384	-0.000348	-0.006711		
1995-09-29	0.01	0.005128	0.01087	-0.004049	-0.018182	0.014388	0	-0.027027		
1996-10-31	-0.01	0.016306	-0.015484	0.04878	0.013889	0.00885	0.026549	0.007042		
1996-11-30	0.05	0.034774	0.077778	0.011628	0.011142	0.04386	0.025617	0.020979		
1996-12-29	0.01	0.024631	0.020619	-0.007782	0		0	0.049041		
1996-01-31	0.05	0.014423	0.026263	0.043137	0.004587		0.017094	0.046358		
1996-02-29	-0.01	0.009289	-0.03	0	0.020274	-0.006284	-0.008739	-0.018987		
1996-03-29	0.01	-0.028571	0.020619	0.007634	0.004545	0.038667	0.008621	-0.006419		
1996-04-30	0.04	0.035294	0.022222	0.013636	0.020815	0	-0.008647	0.002632		
1996-05-31	0.02	0.008333	-0.008033	0.026411	0.018794	0.003279	0.034138	0.03937		
1996-06-28	-0.04	0.028571	0.012146	0.014793	0.019435	0.005566	0	0.036384		
1996-07-31	-0.02	0.016887	0.004	0.029155	0.038395	0.013289	0.016949	0.049383		
1996-08-30	0.05	0.055373	0.032389	0.041501	0.031104	0.029508	0.043	0.028236		
1996-09-30	0.03	-0.01049	0.019608	0.017931	0.037829	0.034076	0.032468	0.012367		
1996-10-31	0.06	0.139676	0.115385	0.097551	0.079239	0.078616	0.086038	0.04119		
1996-11-29	0.08	0.00062	-0.01049	0.00037	-0.022814	0.043732	0.035103	0.063736		
1996-12-31	-0.01	-0.04232	0.014134	-0.00126	0.036008	-0.017588	-0.00289	0.003719		
1997-01-31	0.03	0.055847	-0.013763	0	-0.006882	-0.026986	-0.022174	0.022917		
1997-02-28	0.01	-0.014284	0.014337	0.012891	-0.013609	0.014925	0.008868	0.032567		
1997-03-31	-0.05	-0.009554	-0.007067	-0.001252	-0.041034	0.007941	-0.003077	0.00355		
1997-04-30	0.02	0.051447	0.028648	0.046368	0.052298	0.020833	-0.04321	0.015905		
1997-05-30	0.07	0.098024	0	0.059042	0.016265	0.014577	0.031935	0.04501		
1997-06-30	0.01	0.012694	0	0.058084	0.040541	0.04454	0.044444	0.050187		
1997-07-31	0.07	0.10585	0.070351	0.180932	-0.002886	0.036415	0.042853	-0.010811		
1997-08-29	-0.04	-0.063149	-0.043189	-0.079908	0.014182	-0.018919	0.023032	-0.052823		
1997-09-30	0.07	0.03829	0.024308	0.094758	0.066474	0.026171	0.069384	0.04		
1997-10-31	-0.03	0.028534	0.044237	-0.027624	0.02981	0.010929	0.043243	-0.02243		
1997-11-28	-0.05	0.004792	0.059211	0.203504	0.048421	0.002703	-0.040984	0.030829	0.166788	
1997-12-31	0.03	0.030418	0.080745	0.038096	0.072335		0.041026	0.047893	0.064793	
1998-01-30	0.00	0.009791	0.066379	0.003058	0.053254		-0.042017	0.009669	-0.009404	0.129353
1998-02-27	0.06	0.065688	0.035422	-0.013798	0.026986	-0.010417	0	0.083517	0.011076	-0.055901
1998-03-31	0.07	0.014957	0.047368	-0.007794	0.018784	-0.003947	-0.045614	0.002088	0.056651	-0.078947
1998-04-30	0.01	-0.056842	-0.034925	-0.010212	0.004338	-0.032258	-0.086598	-0.049327	0.036714	-0.013158
1998-05-29	-0.01	0.019186	0	0.014206	-0.018359	0.027776	0.107368	0.027447	0.062893	0.055172
1998-06-30	-0.03	0.01989	0.021053	0.045777	0	-0.034054	-0.160784	-0.016736	-0.025331	-0.052288
1998-07-31	-0.08	-0.048938	-0.082218	-0.018868	-0.065556	0.048433	-0.028571	-0.085106	-0.265337	-0.075882
1998-08-31	-0.20	-0.105816	-0.136364	-0.098846	-0.133176	-0.092391	-0.355	-0.104884	-0.110647	-0.119403
1998-09-30	0.02	0.079897	0.101974	0.10431	0.013888	0.079042	0.188421	0.057747	-0.033898	0.101523
1998-10-30	0.11	0.077566	0.098006	0.047619	0.064893		0.047297	0.047191	0.008772	0.042254
1998-11-30	0.02	0.015725	-0.03022	0.036885	0.002564		-0.014118	0.017533	-0.019313	0.173913
1998-12-31	0.02	0.056108	0.031162	0.021739	-0.010349	0.033983	0.00241	-0.006593	-0.006252	-0.081482
1999-01-29	0.04	-0.005208		-0.035451	-0.023529	0.00274	0.021818	0.039823	-0.042316	0.099637
1999-02-26	-0.06	0.011099	0.008287	0.052574	0.002677	-0.016393	-0.008383	0.081064	-0.037209	-0.012875
1999-03-31	0.05	-0.020989	-0.084931	-0.058451	0.027027	0.011667	0.016854	-0.102249	-0.056522	0.12
1999-04-30	0.06	-0.008538	0.042366	0.014959	-0.031578	0.018553	-0.008485	-0.04328	0.044156	0
1999-05-31	-0.02	-0.059634	0.017442	0.040678	-0.035326	0.00274	0.053086	0.016667	0.014925	0
1999-06-30	0.03	0.034682	-0.048571	-0.027378	-0.024251	-0.010383	0.068639	0.028436	0.030882	0.071429
1999-07-30	0.01	-0.023484	0.060511	-0.022222	0.038012	-0.011236	-0.041341	-0.024096	0	-0.046296
1999-08-31	-0.01	-0.042792	-0.060172	-0.024167	-0.002817	-0.028409	-0.002353	-0.047606	0.039506	-0.026667
1999-09-30	0.00	-0.038816	-0.04878	-0.004702	-0.025751	0.012281	-0.02619	-0.037879	-0.072209	-0.013699
1999-10-29	0.04	-0.02	0.035737	-0.001575	-0.007342	-0.055882	-0.051852	0.018373	-0.077922	0.013514
1999-11-30	0.04	-0.070663	-0.058428	-0.055126	-0.007101	-0.012461	-0.081579	-0.216495	-0.084507	0
1999-12-31	0.12	0.083333	-0.043189	-0.033727	-0.048849	-0.081388	0.03913	-0.016886	-0.033538	-0.067816
2000-01-31	0.01	-0.064103	-0.0375	-0.04014	-0.044515	-0.003509	-0.080282	0.056738	-0.064	-0.034483
2000-02-29	0.08	-0.008219	-0.047619	-0.025384	-0.012978	0.049296	-0.04186	-0.003036	-0.153846	-0.014286
2000-03-31	0.04	-0.065734	0.023077	0.111321	-0.005137	-0.009396	0.045902	0.003697	0.09596	-0.036232
2000-04-28	-0.01	0.130239	0.027068	0.086587	0.070588	-0.034602	0.07819	0.021605	-0.014084	0.075188
2000-05-31	-0.01	0.045033	0.078067	0.061963	0.011576	0.032258	0.131343	0.087719	0.114286	0.20979
2000-06-30	0.10	0.074359	-0.017241	-0.094752	0.05	0.063184	0.057333	0.032787	-0.017094	-0.023121
2000-07-31	0.02	-0.02148	0.032281	0.027375	-0.001536	-0.006667	0.02293	0.034921	0.00885	-0.023569
2000-08-31	0.08	-0.002439	0.082759	0.069671	0.017231	0.030201	0.072956	0.033742	0.264386	0.151515
2000-09-29	-0.08	0.013597	-0.025478	0.023969	0.058282	0.036482	-0.07929	0.159639	0.003496	0.015789
2000-10-31	-0.07	0.046342	0.043137	0.184971	-0.002899	-0.038462	0.068831	0.028571	0.024735	-0.072539
2000-11-30	-0.08	0.036131	0.038095	-0.004329	0.011919	0.05	0.009816	0.055566	0.058621	0.022346
2000-12-29	0.01	0.159091	0.082569	0.082716	0.048035	0.023482	0.083436	0.065375	0.133551	-0.062841
2001-01-31	0.04	-0.041176	-0.044492	-0.167617	-0.008056	0.008228	0.05	-0.054091	-0.056814	0.047089
2001-02-28	-0.13	0.062556	-0.037725	0.119178	0.017021	0.020088	0.001923	0.063912	0.156173	0.05618
2001-03-30	-0.06	0	0.057872	0.045579	0.065272	0.004308	0.028516	0.065327	0.039242	-0.029255
2001-04-30	0.05	0.040186	0.0125	-0.105077	0.02088	-0.000625	0.009511	0.187822	-0.053015	-0.03352
2001-05-31	0.03	-0.046833	-0.05	0.064644	-0.007311	0	0.063859	-0.084837	0.009879	0.040462
2001-06-29	-0.05	0.037	-0.012384	0.02975	-0.015446	0.023765	-0.011698	-0.105034	0.03126	0.04
2001-07-31	-0.01	-0.020251	0.044671	-0.01311	0.009197	0.024922	0.035526	-0.079886	0.020267	-0.021739
2001-08-31	-0.04	0.014173	-0.007295	0.011562	0.106138	0.027356	0.018205	0.018745	0.019884	0.005556
2001-09-28	-0.07	-0.015279	0.006124	0.04366	0.021814	-0.013609	0.01499	-0.130505	0.054075	0.012155
2001-10-31	0.01	-0.000398	0.084754	0.039483	0.047493	0.052599	0.061364	0.057156	0.008358	0.022222
2001-11-30	0.08	0.044179	0.00795	0.009496	-0.025418	0.03312	0.035269	-0.028571	-0.026329	-0.032609
2001-12-31	0.04	-0.043289	-0.056901	-0.020316	0.116467	0.007874	0.065187	-0.011442	0.006259	0.008589
2002-01-31	0.00	0.0201	-0.002091	0.003226	-0.025772	0.005114	-0.024094	-0.034722	0.034222	0
2002-02-28	0.00	0.084729	-0.014554	0.04203	0.061871	0.014698	0.039954	0.057074	0.080292	-0.010811
2002-03-28	0.03	0.052419	0.012823	-0.005779	0.009356	-0.022284	0.018363	0.005048	-0.015766	-0.0153
2002-04-30	-0.02	-0.009056	0.013062	0.028393	-0.006179	-0.018572	0.007662	0.022831	0.055093	-0.033898
2002-05-31	0.00	0.032337	0.027339	0.045435	0.010165	0.049675	0.009413	-0.040179	0.015796	-0.008187
2002-06-28	-0.06	0.011169	0.011528	0.017617	0.016775	0.012893	0.049412	0.00432	0.021226	0.016684
2002-07-31	-0.07	-0.086214	-0.038753	-0.023113	-0.078411	0.01561	-0.009783	-0.017182	-0.019565	-0.089412
2002-08-30	0.00	-0.017455	0.011056	0.00738	0.084882	0.002779	0.025442	0.072	0.026608	0.040052
2002-09-30	-0.06	0.036415	0.078372	0.005214	0.028807	0.021084	0.020652	-0.055416	-0.012959	0.04472
2002-10-31	0.01	-0.024324	-0.018873	-0.049276	0.033	0.018785	-0.01309	0.0016	-0.004425	0
2002-11-29	0.05	0.023823	-0.059884	-0.024096	-0.018567	0.029284	-0.071209			

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2003-02-28	0.00	-0.029242	-0.044376	0.009765	0.024423	0.019946	0.009624	0.027473	-0.021586	0.049757	-0.027803
2003-03-31	-0.03	-0.056265	-0.045128	0.033882	-0.069718	-0.028541	-0.031501	-0.047045	-0.017566	0.025434	0.030306
2003-04-30	0.04	0.036177	0.087329	-0.0089	0.028202	0.045455	0.063954	0.10443	0.062645	0.023015	-0.01523
2003-05-30	0.04	0.100612	0.062568	0.080985	0.101672	0.014846	0.034141	0.067049 n/a		-0.00225	0.053571
2003-08-30	0.02	0.049785	0.048678	0.024802	0.063063	0.039707	0.029828	-0.021776	-0.011523	0.028312	0.029297
2003-07-31	0.04	0.023256	0.020344	0.049447	0.021186	0.05317	0.010705	0.037284	0.007368	0.039106	0.058914
2003-08-29	0.04	-0.020829	-0.018192	-0.023161	-0.005477	-0.007282	0.025732	0.033262	-0.014201	0.066989	0.002723
2003-09-30	-0.01	-0.009188	-0.028373	-0.056807	-0.086657	0.008313	0.01705	-0.034719	0.014006	0.021363	-0.025041
2003-10-31	0.06	0.036384	0.04867	0.075897	0.027207	0.019724	0.021766	0.036422	0.072996	-0.020305	0.046447
2003-11-28	0.01	0.017719	0.03107	0.012088	0.067358	0.026269	0.03348	-0.010526	0.037546	0.026943	0.030389
2003-12-31	0.05	0.006261	-0.022232	0.032692	-0.014391	0.062706	0.030273	-0.001078	0.000599	0.049445	0.07982
2004-01-30	0.04	0.027826	0.029642	-0.050279	0.059932	-0.009009	0.008969	-0.043173	-0.02977	0.03027	-0.028355
2004-02-27	0.03	0.016143	0.034085	0.032896	-0.016868	0.012273	0.019612	0.019741	0.024399	0.046857	0.081066
2004-03-31	-0.02	0.051586	0.02605	0.020686	0.058785	-0.030534	-0.002444	0.001683	0.027066	0.032143	-0.046433
2004-04-30	-0.04	-0.071281	0.011399	-0.061738	-0.007444	-0.077176	-0.090478	-0.053751	-0.039404	-0.103437	-0.100324
2004-05-31	0.02	-0.06359	-0.099462	0.01975	-0.059531	0.040795	-0.044748	0.017752	0.011828	-0.019299	-0.068901
2004-06-30	0.02	-0.024885	-0.027618	-0.034237	-0.028147	0.045566	0.049424	-0.016920	-0.026201	0.017487	0.037633
2004-07-30	-0.01	0.007751	0.052683	0.026844	0.023216	0.040478	-0.012128	-0.067146	0.013258	0.001923	-0.045676
2004-08-31	-0.01	0.044289	0.041548	0.049042	0.017479	-0.034783	0.039714	0.041774	0.026421	0.063479	0.034563
2004-09-30	0.04	0.000181	-0.027322	0.003646	0.020633	0.013761	0.05614	0.028922	0.015312	0.031404	0.041128
2004-10-29	0.02	0.08214	0.033146	0.01109	0.04898	0.045152	0.032678	0.004872	0.000726	0.055048	0.019217
2004-11-30	0.02	0.013907	0.03027	0.096019	0.054319	0.022283	0.046716	0.001818	0.065265	0.020413	0.046497
2004-12-31	0.03	0.005669	0.024039	0.039304	0.034226	-0.006338	0.032895	0.025668	0.026528	0.038235	0.048686
2005-01-31	0.00	-0.009289	0.034038	0.052711	0.064745	0.029973	0.022527	0.052078	-0.003351	0.047807	-0.008795
2005-02-28	0.05	0.02892	-0.029082	-0.017326	-0.003373	-0.0097	0.02217	-0.0495	0.001345	0.01727	-0.007981
2005-03-31	0.00	0.005738	-0.027851	0.015329	-0.026921	-0.052638	-0.058376	0.038202	0.014607	-0.045208	-0.076076
2005-04-29	-0.02	0.005379	-0.022568	0.022005	0.014706	0.028853	0.030918	0.027597	-0.009027	0.034051	0.042147
2005-05-31	0.03	0.048982	0.035834	0.051705	0.040304	0.051088	0.033148	0.07109	0.025641	0.090676	0.032539
2005-06-30	0.03	0.090881	0.016216	0.044531	0.039171	-0.008834	0.009189	0.015928	0.071875	0.033149	0.048089
2005-07-29	0.05	0.014433	-0.030718	0.010014	0.058951	0.010407	0.014209	0.058305	0.038414	0.070715	0.027584
2005-08-31	0.03	0.031111	0	0.027673	-0.013444	0.116881	0.018444	-0.015513	-0.056318	-0.035226	-0.007231
2005-09-30	0.03	0.038876	0.065733	0.06077	0.153359	0.024215	-0.004859	0.062012	0.085	-0.025404	-0.007231
2005-10-31	-0.06	-0.001284	-0.007963	-0.028089	-0.091134021	-0.107111	-0.061851	0.009948	-0.008732	-0.079491	-0.01934
2005-11-30	0.04	0.091519	0.024742	0.007111	0.141107	0.070184	0.107068	0.065953	0.027281	0.089565	0.06851
2005-12-30	0.04	0.026611	0.055332	0.004140	-0.028811	-0.073964	0.01439	0.029627	-0.030332	-0.030522	-0.020019
2006-01-31	0.06	-0.071396	-0.063275	-0.007157	-0.021426	0.028104	0.047335	-0.077651	-0.028431	-0.03774	0.065703
2006-02-28	-0.02	-0.002816	0.029336	0.000485	-0.014316	-0.014414	0.109874	0.044017	-0.015194	0.070462	-0.005732
2006-03-31	0.04	-0.040554	-0.0425	-0.08257	-0.035269	0.032779	-0.010633	-0.079918	-0.030867	-0.009408	-0.04152
2006-04-28	0.01	-0.034278	0.01423	-0.010131	-0.028633	-0.016882	-0.061218	0.048989	-0.013393	-0.009367	-0.012839
2006-05-31	-0.04	0.008477	-0.016667	0.049594	0.120239	-0.128788	-0.035312	0.008987	0.020513	-0.012902	0.003595
2006-06-30	-0.01	-0.006569	-0.001589	-0.012435	-0.079568	-0.042899	-0.007116	-0.007726	-0.044636	0.009275	-0.082465
2006-07-31	0.02	0.091698	0.042573	0.069008	0.010305	-0.012963	0.065517	0.009948	0.068875	0.045396	0.086596
2006-08-31	0.02	0.006461	0.0386	0.011248	0.115743	0.093802	0.008876	0.047837	0.031915	-0.01512	-0.002301
2006-09-29	-0.02	0.028028	-0.002973	-0.008263	-0.022	0.033468	0.027139	-0.023131	-0.010588	-0.012913	0.039384
2006-10-31	0.05	0.02483	0.067222	0.045492	0.04499	0.036227	0.016763	0	0.030681	0.034326	-0.017652
2006-11-30	0.04	0.067934	0.060706	0.075551	0.110372	-1.133919	-0.132571	0.098097	0.067825	-0.064916	-0.064502
2006-12-29	0.01	0.068502	0.002862	-0.005217	0.055358	0.006971	0.066368	0.031104	0.058804	0.045023	0.058149
2007-01-31	0.01	-0.085052	-0.047235	-0.044206	-0.087424	0.073813	0.025269	-0.068927	-0.040877	-0.040976	-0.076988
2007-02-28	0.00	-0.009961	-0.047396	-0.020708	-0.023006	0.005977	0.021092	-0.012551	-0.041592	-0.009318	-0.015724
2007-03-30	0.01	0	0.018227	0.013183	0.065705	0.020202	-0.023242	0.035211	0.037285	-0.020564	-0.045326
2007-04-30	0.02	0.065688	0.054306	-0.030902	0.006415	-0.011862	0.051702	0.046419	0.031006	0.077709	0.107672
2007-05-31	0.05	0.099126	0.001391	0.048699	0.007082	0.036414	0.026554	0.092543	-0.00934	0.000666	-0.033881
2007-06-29	-0.01	-0.073444	-0.078704	-0.054517	-0.075452	-0.004638	-0.060296	-0.065438	-0.057399	-0.080098	-0.000384
2007-07-31	0.00	0.031317	0.053141	0.051532	0.008812	0.001779	0.0734	0.138449	0.052115	0.01796	-0.001526
2007-08-31	-0.01	0.021466	-0.044883	-0.049688	0.016331	-0.022489	-0.014118	-0.007896	-0.047189	0.000711	0.012267
2007-09-28	0.03	0.009321	0.017877	0.025028	0.016949	-0.010902	0.061899	0.047476	0.001905	0.010258	0.020252
2007-10-31	0.06	0.095581	0.026675	0.123731	0.041852	-0.001248	0.025071	0.085222	0.101727	-0.010704	0.000748
2007-11-30	-0.06	-0.046435	0.049385	-0.084778	-0.03235	-0.078125	-0.001679	-0.086176	-0.011448	0.009134	-0.056389
2007-12-31	0.01	-0.083944	0.021891	0.07773	0.079376	0.128814	-0.003386	0.057143	0.031722	0.060515	0.031369
2008-01-31	-0.05	0.082991	-0.004672	0.000749	-0.012769	-0.04896	-0.006842	-0.03994	-0.026821	-0.037518	-0.051746
2008-02-28	0.03	-0.094542	-0.052315	0.018953	-0.006287	0.016731	-0.012139	0.102909	-0.000263	0.018676	-0.058342
2008-03-30	-0.01	-0.079486	0.027357	0.045892	0.036816	0.00443	-0.03241	-0.068882	0.009863	0.027084	0.10404
2008-04-30	0.05	0.069706	0.030789	-0.021231	-0.047586	-0.03569	0.051534	0.064163	-0.067223	0.030328	0.002146
2008-05-31	0.06	0.064171	0.053639	0.074717	-0.010784	0.074	0.052879	0.067059	0.060146	0.028743	0.042858
2008-06-29	-0.01	-0.051486	0.021691	-0.005197	-0.004034	-0.037865	0.014607	0.022772	0.017633	-0.017673	-0.023628
2008-07-31	-0.06	0.044742	0.021556	0.02203	-0.00405	-0.0158	-0.007804	-0.009775	0.007349	-0.003383	-0.02
2008-08-31	0.02	-0.058641	0.009428	-0.004	-0.034011	0.073579	0.047511	0.025775	0.01434	-0.043495	-0.025995
2008-09-28	-0.14	-0.114964	-0.101443	-0.089908	-0.071484	-0.071028	-0.10223	-0.210286	-0.03249	-0.050756	-0.208286
2008-10-31	-0.17	0.10965	0.026571	0.033835	0.094465	-0.040411	-0.003052	-0.185701	-0.052523	-0.107171	-0.541071
2008-11-30	-0.05	-0.008709	-0.013035	-0.103201	0.026616	-0.029979	-0.050617	-0.062934	-0.108138	-0.134203	0.007843
2008-12-31	-0.03	-0.028024	0.04717	0.062886	-0.008	-0.009566	0.003935	0.078994	0.025413	-0.005062	-0.062672
2009-01-30	-0.03	-0.008659	-0.007095	0.017193	-0.012597	0.138403	-0.05336	-0.085481	-0.006942	0.084614	0.255411
2009-02-27	-0.06	0.014038	-0.066085	-0.045488	-0.004527	-0.022044	0.023174	-0.046512	-0.065664	-0.021791	-0.017639
2009-03-31	0.08	-0.089126	-0.069339	-0.042861	-0.074384	-0.006148	-0.028393	-0.011878	-0.017567	-0.033338	-0.035294
2009-04-30	0.07	-0.062142	0.052763	0.008242	0.000451	0.009831	-0.023022	0.114409	0.003689	0.051396	0.270492
2009-05-29	0.11	0.043374	-0.004557	0.067575	0.094314	0.018776	0.052045	-0.012106	0.092225	0.043986	-0.042208
2009-06-30	0.00	0.067511	0.10885	0.042515	0.060442	0.039559	0.070613	0.118349	-0.02627	0.134822	0.1843
2009-07-31	0.04	-0.032148	-0.036583	0.031389	0.003145	0.024799</					

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10-29-10	0.0271	-0.017449	0.014026	0.046762	0.013463			-0.059654	-0.013099	0.072852	0.008734
11-30-10	0.0237	0.065064	0.089286	0.020475	0.0003	0.005263	-0.02585	0.029058	-0.039023	-0.008448	0.049784
2010-12-31	0.0409	0.050193	-0.030312	-0.0152	0.0586	0.006981	0.017799	0.0091	0.0605	-0.0383	0.047423
2011-01-29	0.0099	-0.021876	0.039394	0.031811	0.0180	-0.002931	0.03287	-0.019385	-0.037115	-0.027888	
2011-02-26	0.0444	-0.047312	-0.023869	0.008267	-0.0379	-0.002352	0.000461	0.004822	0.06889	0.008722	0.045092
2011-03-31	0.0012	0.052893	0.006351	0.0236	0.0039	0.002357	0.045784	-0.005353	0.0161	0.07629	0.02451
2011-04-30	-0.0102	0.012842	0.00426	0.035005	-0.0190	-0.013723	0.010462	0.031311	0.0356	-0.01771	0.040698
2011-05-31	-0.0087	0.072394	0.022222	0.055935	0.0249	-0.012704	0.08898	0.032258	0.0668	0.075243	0.060075
2011-06-30	-0.0333	-0.019088	-0.018323	-0.034185	-0.0200	0.009191	0.041208	-0.040987	-0.0152	-0.038975	-0.00431
2011-07-30	-0.0250	0.008426	0.009649	0.000319	-0.0213	-0.000617	-0.000788	0.026226	-0.0522	0.011757	-0.007005
2011-08-31	-0.0121	0.071346	0.002849	0.043832	0.0407	-0.019741	0.015055	0.056846	0.0553	-0.004059	0.015673
09-30-11	-0.0868	0.035167	0.019886	0.029231	0.0083	-0.074261	0.011377	0.035876	0.0142	0.071822	0.010417
10-29-11	0.0561	-0.029947	0.023445	0.032287	0.0234	0.016598	0.082768	-0.03858	-0.0040	-0.016737	-0.026097
11-30-11	-0.0021	0.038548	0.001222	0.053721	0.0030	0.091837	0.101364	0.01596	0.0120	0.01619	0.089286
2011-12-31	-0.0170	-0.010133	0.008239	0.053957	-0.0042	0.011215	0.001345	-0.044111	0.0483	0.065545	0.089286
2012-01-29	0.0437	-0.019175	-0.008248	-0.009451	0.0006	0.020651	-0.091369	-0.031399	-0.0737	-0.008935	-0.066978
2012-02-26	0.0167	0.099776	0.027752	0.018884	-0.0135	-0.027659	0.051454	0.040275	0.0562	0.016797	0.035058
2012-03-31	-0.0163	-0.013346	0.017402	0.015199	-0.0113	-0.015132	0.00855	-0.104835	-0.0069	-0.000439	-0.053226
2012-04-30	-0.0060	0.069628	0.040917	0.069405	0.0817	-0.02147	0.065117	-0.124084	0.0147	0.000877	0.094828
2012-05-31	-0.0610	-0.030716	-0.054634	-0.007188	-0.0309	-0.018617	-0.06409	0.046398	-0.026001	-0.134308	-0.006299
2012-06-30	0.0110	-0.008357	0.016944	-0.003676	-0.0185	0.052845	-0.060187	0.023739	0.018427	-0.062149	0.053883
2012-07-30	0.0060	0.053424	0.060919	0.0091	0.0387	0.039241	0.035165	-0.092754	0.070307	0.071406	0.003039
2012-08-31	0.0265	-0.022536	-0.025481	-0.047221	-0.0224	0.015733	0.002052	-0.030032	-0.027808	0.022012	0.009091
09-30-12	0.0343	0.010444	0.007844	-0.010564	0.0320	0.008055	0.037987	0.010745	0.017568	-0.007399	0.013138
10-29-12	0.0107	-0.024603	0.018143	0.034896	0.0072	-0.006242	0.016848	0.057807	0.005141	0.006462	0.065934
11-30-12	-0.0128	0.010187	-0.02235	0.019187	-0.0027	-0.000628	0.011994	-0.042714	0.022459	-0.009289	-0.024602
2012-12-31	0.0195	0.069899	0.018171	0.089617	0.0252	0.024513	0.01653	0.011371	0.032188	-0.060465	0.026335
2013-01-29	0.0225	0.059911	0.033103	0.019293	0.0123	0.002492	0.021609	0.060947	0.004041	0.092418	0.071837
2013-02-26	0.0126	0.026184	-0.002814	0.095758	-0.0193	0.011187	0.004685	-0.021821	0.017581	0.014276	0.042292
2013-03-31	-0.0019	0.035365	-0.009594	0.028708	0.0146	0.004917	0.113856	-0.035714	0.019151	0.007983	-0.016034
2013-04-30	-0.0207	0.029894	0.061254	0.013531	0.0234	0.003106	0.034424	-0.002694	0.028691	0.046551	0.069993
2013-05-31	0.0177	-0.076278	-0.044173	-0.065382	-0.0466	0.003096	-0.016573	0.005961	-0.047657	0.013598	-0.028894
2013-06-30	-0.0376	-0.030088	-0.06351	-0.0169	-0.0248	0.004321	-0.003239	-0.027009	-0.038268	-0.075604	-0.0511
2013-07-30	0.0319	0.036304	0	0.030762	0.0031	0	0.003884	-0.018043	0.03644	-0.027001	-0.037241
2013-08-31	0.0165	-0.100327	-0.067209	-0.045315	-0.0505	-0.018727	0.020205	-0.022615	-0.021735	0.003593	-0.034384
09-30-13	0.0140	0.036875	-0.001341	-0.003936	0.0310	0.017812	0.04898	-0.011817	-0.004356	0.017776	-0.046736
10-29-13	0.0472	0.081287	0.044058	0.050674	0.0364	-0.015238	0.006151	0.04858	0.038453	0.069464	0.061514
11-30-13	0.0045	-0.05214	-0.046194	-0.025996	-0.0299	0.000645	-0.005282	0.029223	-0.002979	0.066923	0.007429
2013-12-31	0.0199	-0.01109	0.042633	0.081771	-0.0225	-0.002577	0.112889	-0.04735	0.045891	0.049218	0.095133
2014-01-29	0.0082	0.062518	0.038028	0.007541	0.0056	0.026821	0.025388	0.087537	-0.002472	0.051387	-0.006812
2014-02-26	0.0393	0.041095	0.034109	0.00834	0.0108	0.006394	0.047607	-0.118008	0.006909	0.127567	-0.019204
2014-03-31	0.0123	0.049502	0.060728	0.072863	0.0291	0.004447	0.055375	0.007059	0.040829	0.001392	0.027297
2014-04-30	0.0242	-0.01556	-0.004287	0.053376	0.0216	0.003213	0.0293	0.042835	0.016517	-0.023184	0.010256
2014-05-31	-0.0016	-0.024018	0.003835	-0.018096	0.0205	0.006786	-0.00267	-0.015683	-0.011746	0.054491	0.025381
2014-06-30	0.0407	0.019108	0.002351	-0.017466	-0.0022	0.022293	0.0758	0.006154	0.018423	0.10719	0.025904
2014-07-30	0.0142	-0.02075	-0.001099	0.055698	0.0333	0.000633	-0.001851	0.042813	0.074023	-0.007291	-0.014561
2014-08-31	0.0209	0.008872	0.020765	0.02058	0.0095	0.01771	0.096899	0.016773	0.068921	0.009892	0.115606
09-30-14	-0.0399	-0.003312	0.018018	-0.010886	0.0319	-0.007458	-0.052742	-0.063745	-0.005302	-0.081412	-0.0009
10-29-14	-0.0207	-0.00409	0.092708	-0.005223	0.0699	0.024173	-0.005829	-0.067234	-0.036928	0.043646	0.039548
11-30-14	0.0106	0.032533	0.039652	-0.009001	0.1059	0.005559	-0.163708	0.032847	-0.019802	0.016015	0.062174
12-31-14	-0.0044	0.023774	-0.019289	0.137905	-0.0406	0.004941	0.090477	-0.055655	0.057484	0.030928	0.006292
2015-01-30	0.0055	0.029821013	0.068116446	0.030297829	0.075718485	0.056803233	-0.064124	0.057031612	-0.009037	-0.114820291	0.049793
2015-02-27	0.0398	-0.006744575	-0.014670607	-0.048428105	-0.047565723	0.038656276	0.016337	0.075693302	-0.03095998	-0.032483135	0.01087
2015-03-31	-0.0248	-0.042839858	0.005616624	0.050231987	-0.02626372	0.00454575	0.004627	-0.00257419	-0.002001036	0.077493127	0.074251
2015-04-30	0.0143	-0.014332246	-0.003494915	0.032923945	0.017883811	-0.021945503	0.052649	0.021277269	0.03967872	0.092429621	0.050214
2015-05-29	-0.0122	-0.005601383	0.014517868	-0.049585793	-0.024271474	0.009452192	-0.041617	-0.084999466	-0.037494582	-0.02619662	-0.007121
2015-06-30	-0.0278	-0.025956049	-0.046305604	-0.017989094	-0.078357303	-3.28167E-06	0.010788	-0.10370185	-0.048839166	-0.086097366	-0.022789
2015-07-31	-0.0032	0.021407797	0.119302455	-0.023968916	0.087561197	0.007132387	-0.053195	-0.143595688	0.00137058	-0.118808077	0.023504
2015-08-31	-0.0404	-0.001836131	0.044473537	-0.038292914	-0.038579241	-0.011796896	-0.037234	-0.185473786	-0.09699134	-0.07571051	0.019833
2015-09-30	-0.0387	-0.007148649	-0.028316717	-0.088651429	0.009489553	0.009045944	-0.116096	-0.057748692	-0.09102834	-0.0248702186	-0.020707
2015-10-30	0.0196	-0.047354908	-0.021831129	0.127851457	-0.008361546	0.010805747	0.028418	-0.016133464	0.042569641	0.123762376	0.068856
2015-11-30	-0.0023	-0.043756937	-0.005367513	-0.143282524	-0.015961263	-0.016917948	-0.062899	-0.091172894	-0.042277115	-0.017789011	0.023786
2015-12-31	-0.0307	-0.01163	-0.02084654	0.01454868	-0.030149738	0.014373597	0.055446768	-0.011338	-0.08556303	0.084506833	-0.146448925
2016-01-29	-0.0117	-0.002243	0.131184038	0.044298	0.057826	0.088212	0.096074	0.081111	0.020337	0.076566	-0.089921
2016-02-29	0.0047	0.040018	-0.090933449	0.008288	-0.006987	-0.069393	-0.010417	0.064149	0.213415	0.020555	0.008679
2016-03-31	0.06283	0.065716	0.116743	0.065606	0.057982	0.086311	0.091579	0.045434	0.01855	0.039778	0.113623
2016-04-29	0.03677	-0.030851	-0.007153	-0.033551	0.030854	-0.022353	0.070347	0.07804	0.086093	0.023068	0.044846
2016-05-31	0.00996	0.037351	0.013439	0.015835	0.012855	0.040075	0.031949	0.02494	-0.033537	0.042994	0.13913
2016-06-30	0.00342	0.070786	0.032552	0.052609	0.047264	0.064603	-0.018576	0.024694	0.096667	0.086216	0.07537
2016-07-29	0.03906	-0.001156	0.073738	0.011981	-0.018637	-0.009618	0.029197	-0.072917	0.03568	0.16174	0.026913
2016-08-31	0.00267	0.011184	-0.055362	-0.019104	-0.027183	-0.037572	-0.081513	0.040441	-0.081862	-0.017674	-0.030303
2016-09-30	0.01219	-0.004195	-0.016472	-0.009215	0.114849	0.022788	0.04393	0.026408	0.062608	0.057256	0.043599
2016-10-31	0.00618	-0.055212	0.035388	-0.000159	0.004509	0.046457	-0.035273	0.034767	0.013722	-0.025518	-0.087067
2016-11-30	0.02194	-0.066004	-0.068745	-0.038264	-0.015884	-0.084032	-0.010446	-0.03834	0.250423	-0.006423	0.022494
2016-12-30	0.01663	0.030763	0.023183	0.008891	0.000531	0.035465	0.019194	0.06714	0.010484	0.012846	0.089149
2017-01-31	0.00849	0.018932	0.023467	0.012613	-0.019469	0.009186	-0.023855	-0.03408	0.036339		

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2018-06-29	0.0169	0.041624	0.067662	0.057051	0.186543	0.014241	0	0.013522	-0.009008	0.060612	0.018083
2018-07-31	0.0115	-0.051896	-0.022569	-0.001986	-0.017021	0.017849	-0.000495	0.032067	0.122727	0.028657	0.006299
2018-08-31	-0.0082	0.014737	-0.098527	-0.020403	-0.020325	0.008768	-0.007917	-0.044672	0.040486	-0.050077	0.067121
2018-09-28	-0.0089	0.030602	-0.000629	-0.027367	-0.065281	-0.019663	-0.033416	-0.009681	-0.062151	-0.047319	0.001268
2018-10-31	-0.0627	-0.024949	-0.016888	0.026083	-0.015835	0.038682	0.029859	-0.025518	-0.044017	-0.050134	-0.018467
2018-11-30	0.0139	0.026632	0.015476	0.098474	0.078329	0.071264	0.027467	0.065599	0.030218	0.098988	0.073059
2018-12-31	-0.0640	0.041709	0	-0.020394	-0.024608	-0.013868	-0.027723	-0.091518	-0.214688	-0.092011	-0.014029
2019-01-31	0.0874	0.01679	0.078544	0.065632	0.132044	0.029664	0.072389	0.160454	0.282648	0.146266	0.05681
2019-02-28	0.0315	0.002914	0.046557	0.017826	0.029327	0.022194	0.107039	0.032678	0.122734	0.05315	0.008203
2019-03-29	0.0101	0.016465	0.044374	0.067279	-0.005136	0.040885	0.152004	0.023256	0.225688	0.032625	0.04119
2019-04-30	0.0322	0.044316	0.012336	0.018661	0.021887	0.002632	0.000765	-0.020371	-0.07943	0.065312	0.017299
2019-05-31	-0.0308	0.058273	0.043127	0.034387	0.020368	0.039984	-0.005732	0.010856	-0.008637	0.030497	0.031393
2019-06-28	0.0253	0.007926	-0.028921	0.028247	-0.049437	0.012928	0.003843	0.015139	-0.04698	-0.003339	0.018221
2019-07-31	0.0034	0.020678	-0.027697	0.035087	-0.069076	0.005995	0.003098	-0.013638	-0.05047	-0.004621	0.035917
2019-08-30	0.0043	0.058773	0.0816	0.052555	0.026951	0.065359	-0.00193	0.021925	0.064277	0.05571	0.058394
2019-09-30	0.0189	0.002087	0.015605	0.008322	0.04424	0.018919	0.017021	0.011695	0.005834	0.018564	0.053259
2019-10-31	-0.0068	0	-0.015621	-0.052399	0.031183	-0.023032		-0.051721	-0.097448	-0.032216	-0.003308
2019-11-29	0.0369	0.021641	0.027125	0.002202	0.0644	-0.04025		0.004629	0.158912	0.012201	0.03042
2019-12-31	0.0046	0.01205	0.002816	0.021421	0.026441	0.035367		0.042044	0.035714	0.040327	-0.003987
2020-01-31	0.0174	0.072568	0.033955	0.067799	0.042224	0.07127		0.057345	0.064655	0.049306	0.102885
2020-02-28	-0.0590	0.001487	-0.008509	-0.040706	-0.056495	-0.050632		-0.041831	0.021508	-0.035965	0.00591
2020-03-31	-0.1738	-0.050427	-0.153072	-0.018741	-0.179744	-0.00092		-0.449638	-0.267682	-0.09434	-0.061434
2020-04-30	0.1079	-0.003946	0.009512	0.009414	0.040752	-0.006081		0.217046	0.112772	0.024141	0.01847
2020-05-29	0.0304	0.057082	-0.01427	-0.012092	0.068933	-0.008389		0.084273	-0.011905	-0.031377	-0.001036
2020-06-30	0.0246	-0.033698	0.023002	-0.024114	-0.07816	-0.026033		0.007268	0	-0.052216	-0.07883
2020-07-31	0.0448	0.1179	0.016568	0.055082	0.038517	0.058556		-0.034767	0.088199	0.052586	0.052992
2020-08-31	0.0235	-0.053959	-0.034476	-0.044843	-0.007698	-0.034876		-0.001229	-0.038527	-0.000993	-0.021845
2020-09-30	-0.0206	0.054578	-0.029933	0.02723	-0.087817	0.043512		-0.118576	-0.022673	-0.070176	0.001038
2020-10-30	-0.0311	0.031538	-0.019521	-0.016682	-0.058298	-0.033248		-0.005662	-0.035409	-0.061896	0.044467
2020-11-30	0.1057	0.040879	0.055729	0.01317	0.126941	0.003136		0.195052	0.14462	0.089436	0.007426
2020-12-31	0.0172	-0.048086	-0.041615	0.004642	0.003698	-0.005546		-0.084843	0.074444	-0.079993	0.039246
2021-01-29	-0.0032	0.034206	0.016726015	-0.011641594	0.055268854	-0.005386367		0.124919133	0.160286749	0.059132321	0.017184
2021-02-26	0.0436	-0.088086	-0.033980545	-0.050969233	0.019212913	-0.043299875		-0.03288682	-0.004899686	-0.027550902	-0.0756082
2021-03-31	0.0387	0.092657	0.120187234	0.115479293	0.065146422	0.112857593		0.128331214	0.070144224	0.096974628	0.020042
2021-04-30	0.0239	0.006833	0.041197207	0.01032144	0.035605033	0.005501385		0.0511333	0.015125231	0.055543841	-0.004018
2021-05-31	0.0344	0.041398	0.009868308	0.0075189	-0.01453917	0.008993972		0.030615315	-0.091474945	0.001811669	-0.068601
2021-06-30	0.0248	-0.015109	-0.01798429	-0.000886263	0.081263639	0.000911917		0.018142355	0.12992041	0.021185013	0.008556
2021-07-30	0.0080	0.028037	0.052499928	0.046008279	-0.0090671	0.031165174		0.052538336	0.053439957	-0.008477315	0.07834
2021-08-31	0.0163	0.019481	-0.010826405	0.023540514	0.026735872	0.030469706		-0.062654961	-0.046503556	-0.015123425	-0.014687
2021-09-30	-0.0222	-0.038016	-0.044245522	-0.036935379	0.016314474	-0.027853905		0.049724313	0.082525115	0.032111041	-0.041038
2021-10-29	0.0502	-0.012358	0.050394999	0.015384005	0.02734804	-0.019576936		0.025556724	0.03737056	0.098259679	-0.039311
2021-11-30	-0.0162	0.056138	-0.031318549	0.019278547	-0.060197081	0.012733846		-0.072481322	-0.060519369	-0.105004471	-0.03083
2021-12-31	0.0306	0.062322	0.059679356	0.077186386	0.030878619	0.104414663		0.02064352	0.08159862	-0.003676995	0.069304
2022-01-31	-0.0041	-0.002127	0.006541085	-0.03681909	0.08763385	-0.010650461		0.057600006	-0.018504198	0.115758237	-0.006567377
2022-02-28	0.0028	-0.0469	-0.0324	-0.0154	0.0356	-0.0291		0.0732	-0.0631	0.0375	0.0105
2022-03-31	0.0396	0.0845	0.0856	0.0450	0.0509	0.0646		0.0393	0.0054	0.0484	0.0689
2022-04-29	-0.0496	0.0312	0.0078	0.0117	-0.0259	0.0110		0.0535	0.0501	0.0774	-0.0407
2022-05-31	0.0006	0.0158	0.0512	0.0135	0.0584	0.0292		0.0187	0.0127	-0.0770	-0.0472
2022-06-30	-0.0871	-0.0110	-0.0434	-0.0409	-0.0697	-0.0461		-0.1035	0.0020	0.0238	0.0353
2022-07-29	0.0466	0.0329	0.0797	0.0178	0.0579	-0.0059		0.0794	-0.0020	0.0238	0.0073
2022-08-31	-0.0161	-0.0053	-0.0198	0.0010	-0.0437	-0.0336		-0.0473	-0.1555	-0.0729	0.0073
2022-09-30	-0.0426	-0.0425	-0.1058	-0.0803	-0.0543	-0.0942		-0.0910	-0.0097	-0.1072	-0.1504
2022-10-31	0.0557	0.0113	0.0089	-0.0843	0.0363	0.0128		0.0773	-0.0172	0.0755	-0.0007
2022-11-30	0.0554	0.1013	0.0275	0.0372	0.0634	0.0294		0.0968	0.0513	-0.0040	-0.3263
2022-12-30	-0.0490	-0.0288	-0.0038	-0.0118	-0.0473	0.0007		-0.0598	-0.0358	-0.0791	-0.1080
2023-01-31	0.0769	0.0031	0.0090	0.0371	0.0295	0.0090		0.0272	0.0669	0.0621	0.0898
2023-02-28	-0.0258	-0.0267	-0.0203	0.0202	-0.0447	-0.0021		-0.0510	-0.1397	-0.0527	0.0742
2023-03-31	-0.0051	0.0951	0.0622	0.0272	0.0086	0.0639		-0.0082	0.0687	-0.0149	0.1021
2023-04-28	0.0320	0.0312	0.0401	0.0508	0.0454	0.0355		0.0187	0.0220	0.0711	0.0159
2023-05-31	-0.0484	-0.0249	-0.0588	-0.0291	-0.0978	-0.0311		-0.0785	0.0873	-0.0616	-0.0070
2023-06-30	0.0307	-0.0139	-0.0587	-0.0252	0.0303	-0.0002		0.0298	-0.0520	0.0311	-0.0303
2023-07-31	0.0282	-0.0172	-0.0428	-0.0070	-0.0154	-0.0154		0.0024	0.0847	-0.1173	-0.0064
2023-08-31	-0.0151	-0.0559	-0.0112	-0.0531	-0.0033	-0.0474		0.0060	-0.0316	0.0326	-0.0597
2023-09-29	-0.0319	-0.0072	-0.1037	-0.0638	-0.0504	-0.0284		-0.0121	-0.0879	-0.0238	-0.2005
2023-10-31	-0.0310	0.0399	0.0223	-0.0270	-0.0135	0.0673		0.0451	-0.1420	0.0225	-0.1318
2023-11-30	0.0769	0.0489	0.0518	0.0500	0.0869	-0.0024		0.0835	0.0931	0.0655	0.1891
2023-12-29	0.0359	0.0606	0.0490	0.0547	0.0068	0.0028		0.0200	-0.0018	0.0354	0.0159
2024-01-31	0.0036	0.0051	-0.0250	-0.0412	0.0008	-0.0105		0.0151	-0.1182	0.0247	-0.0466

VALENER ANNOUNCES CLOSING OF ARRANGEMENT

September 27, 2019

MONTREAL, Sept. 27, 2019 (GLOBE NEWSWIRE) -- Valener Inc. (« Valener ») (TSX: VNR) (TSX: VNR.PR.A) the public investment vehicle in Energir, I.P. today announces the completion of the previously announced acquisition of all of Valener's issued and outstanding common shares (the "Common Shares") ...

ABOUT

Since September 27/19, Valener Inc. is a private company 100% owned by Noverta Inc. Prior to this date, it was a 100% publicly held company. More information about Energir, I.P. is available on its website: <https://www.energir.com/en/>

Quarterly and annual reports as well as prior press releases are available on the SEDAR website <https://www.sedar.com/> managed by the Canadian Securities Administrators.

For more information:

Investor relations
Hévy Ghazi
514 598-6220 / 1 888 598-6220

NEWS

VALENER ANNOUNCES CLOSING OF ARRANGEMENT

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MONTREAL, Sept. 27, 2019 (GLOBE NEWSWIRE) -- Valener Inc. (« Valener ») (TSX: VNR) (TSX: VNR.PR.A) ...

ACCESS NEWS

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energir



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	Hydro	CUL	Emora	Fortis	OMI	Average	PPL	Enbridge	TRP	FRTC	Average
1993-02-26			0.490		0.268		0.379			0.530	0.530
1993-03-31			0.528		0.274		0.401			0.553	0.553
1993-04-30			0.529		0.268		0.394			0.536	0.536
1993-05-31			0.504		0.273		0.388			0.482	0.482
1993-06-30			0.513		0.308		0.410			0.469	0.469
1993-07-30			0.520		0.297		0.409			0.460	0.460
1993-08-31			0.505		0.321		0.413			0.420	0.420
1993-09-30			0.509		0.319		0.414			0.441	0.441
1993-10-29			0.511		0.356		0.434			0.418	0.418
1993-11-30			0.505		0.363		0.435			0.449	0.449
1993-12-31			0.501		0.370		0.436			0.426	0.426
1994-01-31			0.561		0.395		0.478			0.463	0.463
1994-02-28			0.572		0.395		0.484			0.477	0.477
1994-03-31			0.590		0.414		0.502			0.498	0.498
1994-04-29			0.586		0.430		0.508			0.497	0.497
1994-05-31			0.575		0.428		0.501			0.522	0.522
1994-06-30			0.590		0.446		0.518			0.566	0.566
1994-07-29			0.599		0.457		0.528			0.574	0.574
1994-08-31			0.608		0.465		0.546			0.594	0.594
1994-09-30			0.609		0.488		0.548			0.602	0.602
1994-10-31			0.593		0.478		0.536			0.607	0.607
1994-11-30			0.599		0.478		0.539			0.585	0.585
1994-12-30			0.592		0.462		0.527			0.574	0.574
1995-01-31			0.551		0.493		0.522			0.569	0.569
1995-02-28			0.525		0.487		0.508			0.576	0.576
1995-03-31			0.529		0.494		0.512			0.555	0.555
1995-04-28			0.464		0.480		0.472			0.458	0.458
1995-05-31			0.437		0.499		0.468			0.455	0.455
1995-06-30			0.437		0.495		0.466			0.471	0.471
1995-07-31			0.443		0.488		0.469			0.470	0.470
1995-08-31			0.480		0.528		0.504			0.597	0.597
1995-09-29			0.480		0.539		0.510			0.527	0.527
1995-10-31			0.499		0.550		0.525			0.552	0.552
1995-11-30			0.511		0.520		0.516			0.530	0.530
1995-12-29			0.498		0.533		0.515			0.540	0.540
1996-01-31			0.484		0.509		0.497			0.551	0.551
1996-02-29			0.541		0.484		0.512			0.554	0.554
1996-03-29			0.544		0.489		0.516			0.551	0.551
1996-04-30			0.550		0.493		0.521	0.497		0.537	0.517
1996-05-31			0.546		0.488		0.518	0.493		0.536	0.516
1996-06-28			0.501		0.448		0.475	0.476		0.487	0.481
1996-07-31			0.495		0.428		0.461	0.469		0.466	0.467
1996-08-30			0.514		0.434		0.474	0.480		0.482	0.471
1996-09-30			0.523		0.430		0.477	0.496		0.458	0.477
1996-10-31			0.589		0.462		0.525	0.553		0.454	0.603
1996-11-29			0.540		0.406		0.473	0.603		0.492	0.497
1996-12-31			0.561		0.390		0.476	0.498		0.489	0.493
1997-01-31			0.575		0.389		0.482	0.475		0.494	0.484
1997-02-28			0.584		0.378		0.471	0.476		0.484	0.480
1997-03-31			0.558		0.411		0.484	0.398		0.461	0.430
1997-04-30			0.579		0.414		0.496	0.392		0.468	0.430
1997-05-30			0.621		0.396		0.509	0.411		0.474	0.443
1997-06-30			0.631		0.395		0.513	0.411		0.477	0.444
1997-07-31			0.674		0.364		0.519	0.527		0.435	0.481
1997-08-29			0.709	0.518	0.367		0.531	0.588		0.470	0.529
1997-09-30			0.596	0.501	0.393		0.530	0.611		0.468	0.540
1997-10-31			0.671	0.471	0.375		0.506	0.622		0.476	0.549
1997-11-28			0.629	0.389	0.308		0.442	0.432		0.327	0.380
1997-12-31			0.634	0.405	0.310		0.450	0.440		0.338	0.389
1998-01-30			0.624	0.391	0.306		0.440	0.467		0.324	0.396
1998-02-27			0.647	0.394	0.321	0.357	0.430	0.438		0.302	0.370
1998-03-31			0.615	0.404	0.320	0.330	0.417	0.400		0.304	0.352
1998-04-30			0.618	0.394	0.335	0.323	0.417	0.392		0.307	0.349
1998-05-29			0.613	0.395	0.340	0.313	0.415	0.387		0.296	0.342
1998-06-30			0.593	0.384	0.339	0.346	0.416	0.367		0.302	0.335
1998-07-31			0.615	0.446	0.389	0.296	0.436	0.385		0.527	0.456
1998-08-31			0.603	0.530	0.492	0.417	0.510	0.462		0.548	0.505
1998-09-30			0.606	0.541	0.497	0.403	0.511	0.468		0.546	0.507
1998-10-30			0.605	0.561	0.494	0.372	0.508	0.460		0.550	0.505
1998-11-30			0.607	0.557	0.490	0.390	0.511	0.475		0.546	0.510
1998-12-31			0.618	0.564	0.484	0.390	0.513	0.478		0.544	0.511
1999-01-29			0.607	0.574	0.475	0.371	0.507	0.459		0.536	0.498
1999-02-26			0.579	0.554	0.463	0.389	0.497	0.421		0.536	0.479
1999-03-31			0.552	0.504	0.454	0.378	0.472	0.381		0.502	0.442
1999-04-30			0.531	0.505	0.417	0.367	0.455	0.368		0.509	0.438
1999-05-31			0.546	0.501	0.425	0.367	0.460	0.360		0.504	0.432
1999-06-30			0.533	0.482	0.408	0.338	0.440	0.327		0.482	0.404
1999-07-30			0.535	0.464	0.411	0.349	0.445	0.328		0.479	0.403
1999-08-31			0.543	0.494	0.399	0.341	0.444	0.343		0.456	0.399
1999-09-30			0.546	0.498	0.402	0.340	0.446	0.344		0.461	0.402
1999-10-29			0.543	0.499	0.399	0.311	0.438	0.335		0.431	0.383
1999-11-30			0.518	0.500	0.392	0.306	0.429	0.303		0.422	0.363
1999-12-31			0.530	0.423	0.320	0.195	0.367	0.237		0.224	0.231
2000-01-31			0.532	0.435	0.310	0.197	0.369	0.220		0.243	0.231
2000-02-29			0.514	0.396	0.292	0.206	0.352	0.190		0.164	0.177
2000-03-31			0.500	0.397	0.282	0.193	0.343	0.200		0.183	0.191
2000-04-28			0.477	0.396	0.264	0.206	0.336	0.183		0.187	0.185
2000-05-31			0.469	0.381	0.258	0.197	0.326	0.176		0.165	0.170
2000-06-30			0.481	0.346	0.270	0.224	0.330	0.097		0.145	0.121

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2000-07-31	0.479	0.346	0.269	0.224	0.329	0.099	0.145	0.122
2000-08-31	0.457	0.361	0.279	0.239	0.334	0.130	0.251	0.191
2000-09-29	0.431	0.363	0.232	0.207	0.308	0.110	0.235	0.177
2000-10-31	0.396	0.326	0.230	0.226	0.294	0.031	0.216	0.123
2000-11-30	0.360	0.281	0.216	0.179	0.259	0.046	0.169	0.108
2000-12-29	0.361	0.281	0.216	0.176	0.259	0.046	0.170	0.108
2001-01-31	0.352	0.269	0.215	0.174	0.253	0.008	0.149	0.078
2001-02-28	0.286	0.273	0.187	0.144	0.223	-0.070	0.017	-0.026
2001-03-30	0.285	0.260	0.164	0.141	0.210	-0.077	0.006	-0.035
2001-04-30	0.286	0.248	0.161	0.140	0.209	-0.098	-0.004	-0.061
2001-05-31	0.280	0.244	0.169	0.140	0.206	-0.094	-0.005	-0.050
2001-06-29	0.275	0.249	0.168	0.133	0.206	-0.098	-0.006	-0.052
2001-07-31	0.279	0.246	0.173	0.133	0.208	-0.094	0.000	-0.047
2001-08-31	0.270	0.245	0.145	0.123	0.196	-0.095	-0.007	-0.051
2001-09-28	0.277	0.238	0.133	0.125	0.193	-0.102	-0.027	-0.065
2001-10-31	0.248	0.214	0.117	0.106	0.171	-0.124	-0.036	-0.080
2001-11-30	0.263	0.220	0.115	0.102	0.175	-0.120	-0.068	-0.094
2001-12-31	0.249	0.209	0.133	0.100	0.173	-0.128	-0.068	-0.098
2002-01-31	0.243	0.213	0.138	0.106	0.175	-0.125	-0.072	-0.098
2002-02-28	0.241	0.214	0.136	0.105	0.174	-0.126	-0.075	-0.100
2002-03-28	0.242	0.213	0.123	0.103	0.170	-0.136	-0.078	-0.107
2002-04-30	0.242	0.210	0.122	0.105	0.170	-0.139	-0.087	-0.113
2002-05-31	0.220	0.216	0.123	0.103	0.166	-0.155	-0.101	-0.126
2002-06-28	0.215	0.209	0.117	0.096	0.159	-0.142	-0.100	-0.121
2002-07-31	0.213	0.204	0.154	0.090	0.163	-0.179	-0.085	-0.132
2002-08-30	0.202	0.196	0.156	0.076	0.157	-0.200	-0.097	-0.148
2002-09-30	0.185	0.188	0.132	0.063	0.137	-0.222	-0.102	-0.162
2002-10-31	0.187	0.172	0.137	0.065	0.140	-0.232	-0.107	0.050
2002-11-29	0.189	0.168	0.139	0.071	0.142	0.458	-0.194	-0.070
2002-12-31	0.184	0.187	0.132	0.070	0.136	0.456	-0.199	0.069
2003-01-31	0.186	0.167	0.133	0.070	0.136	0.455	-0.199	0.059
2003-02-28	0.171	0.150	0.129	0.076	0.132	0.466	-0.195	0.082
2003-03-31	0.180	0.144	0.138	0.087	0.137	0.500	-0.197	0.094
2003-04-30	0.190	0.164	0.141	0.098	0.148	0.516	-0.197	0.102
2003-05-30	0.209	0.175	0.159	0.100	0.181	0.521	-0.180	0.107
2003-06-30	0.215	0.183	0.163	0.097	0.185	0.499	-0.174	0.100
2003-07-31	0.202	0.160	0.143	0.121	0.157	0.491	-0.179	0.074
2003-08-29	0.094	0.002	-0.018	0.008	0.022	0.117	-0.378	0.014
2003-09-30	0.092	0.000	-0.009	0.003	0.021	0.094	-0.376	0.016
2003-10-31	0.057	-0.064	-0.045	0.006	-0.009	0.099	-0.404	0.011
2003-11-28	0.057	-0.048	-0.042	0.007	-0.007	0.104	-0.407	-0.008
2003-12-31	0.050	-0.054	-0.046	0.019	-0.008	0.109	-0.398	0.015
2004-01-30	0.057	-0.047	-0.028	0.016	-0.001	0.106	-0.401	0.029
2004-02-27	0.061	-0.042	-0.040	0.005	-0.004	0.097	-0.389	0.048
2004-03-31	0.062	-0.021	-0.063	0.012	0.000	0.102	-0.373	0.014
2004-04-30	0.095	-0.037	-0.028	0.036	0.017	0.148	-0.364	0.057
2004-05-31	0.073	-0.047	-0.047	0.039	0.004	0.149	-0.348	0.051
2004-06-30	0.065	-0.042	-0.045	0.045	0.006	0.144	-0.347	0.043
2004-07-30	0.067	-0.049	-0.047	0.042	0.003	0.148	-0.347	0.044
2004-08-31	0.056	-0.062	-0.049	0.041	-0.004	0.144	-0.356	0.034
2004-09-30	0.052	-0.072	-0.049	0.042	-0.007	0.150	-0.357	0.039
2004-10-29	0.070	-0.077	-0.039	0.065	0.005	0.173	-0.356	0.044
2004-11-30	0.090	-0.060	-0.030	0.072	0.018	0.200	-0.334	0.048
2004-12-31	0.093	-0.015	0.031	0.163	0.053	0.205	-0.318	0.101
2005-01-31	0.038	-0.014	0.031	0.163	0.054	0.210	-0.317	0.101
2005-02-28	0.058	0.005	0.043	0.136	0.080	0.254	-0.313	0.122
2005-03-31	0.082	0.004	0.053	0.148	0.072	0.254	-0.343	0.104
2005-04-29	0.097	0.013	0.060	0.138	0.077	0.257	-0.335	0.145
2005-05-31	0.107	0.025	0.063	0.147	0.086	0.270	-0.320	0.179
2005-06-30	0.082	0.083	0.046	0.108	0.072	0.255	-0.238	0.232
2005-07-29	0.087	0.030	0.066	0.108	0.073	0.247	-0.238	0.259
2005-08-31	0.105	-0.018	0.074	0.098	0.064	0.241	-0.294	0.156
2005-09-30	0.118	-0.028	0.147	0.125	0.090	0.171	-0.290	0.156
2005-10-31	0.153	0.007	0.198	0.160	0.130	0.259	-0.146	0.151
2005-11-30	0.218	0.042	0.263	0.232	0.188	0.305	-0.175	0.203
2006-12-30	0.207	0.054	0.227	0.194	0.170	0.293	-0.182	0.190
2006-01-31	0.177	0.034	0.211	0.201	0.166	0.292	-0.121	0.146
2006-02-28	0.300	-0.047	0.267	0.276	0.199	0.300	0.042	0.239
2006-03-31	0.284	-0.025	0.297	0.292	0.212	0.309	0.043	0.205
2006-04-28	0.274	-0.029	0.310	0.303	0.214	0.319	0.100	0.231
2006-05-31	0.232	0.001	0.251	0.379	0.218	0.331	0.063	0.233
2006-06-30	0.289	-0.013	0.257	0.420	0.238	0.328	0.085	0.267
2006-07-31	0.296	0.000	0.254	0.422	0.243	0.340	0.088	0.266
2006-08-31	0.306	-0.005	0.335	0.461	0.275	0.349	0.089	0.284
2006-09-29	0.291	-0.002	0.392	0.463	0.286	0.373	0.149	0.302
2006-10-31	0.292	0.037	0.400	0.471	0.300	0.367	0.167	0.309
2006-11-30	0.297	0.060	0.510	0.419	0.321	0.313	0.205	0.287
2006-12-28	0.329	0.089	0.477	0.423	0.329	0.297	0.221	0.297
2007-01-31	0.331	0.086	0.466	0.425	0.327	0.288	0.219	0.302
2007-02-28	0.348	0.089	0.481	0.427	0.336	0.293	0.229	0.322
2007-03-30	0.336	0.089	0.487	0.439	0.337	0.292	0.236	0.334
2007-04-30	0.340	0.100	0.480	0.429	0.337	0.300	0.243	0.368
2007-05-31	0.392	0.096	0.461	0.446	0.349	0.301	0.268	0.347
2007-06-29	0.484	0.148	0.542	0.509	0.416	0.354	0.289	0.398
2007-07-31	0.388	0.071	0.453	0.610	0.380	0.348	0.259	0.390
2007-08-31	0.368	0.101	0.466	0.617	0.388	0.362	0.289	0.422
2007-09-28	0.457	0.248	0.549	0.722	0.494	0.444	0.324	0.430
2007-10-31	0.493	0.253	0.557	0.711	0.504	0.441	0.373	0.473
2007-11-30	0.537	0.216	0.611	0.755	0.530	0.495	0.525	0.477
2007-12-31	0.530	0.214	0.613	0.754	0.528	0.499	0.523	0.479
2008-01-31	0.411	0.217	0.599	0.758	0.496	0.499	0.498	0.467
2008-02-28	0.354	0.177	0.589	0.764	0.471	0.485	0.470	0.374

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2008-03-30	0.354	0.123	0.524	0.753	0.438	0.482	0.507	0.455	0.386	0.458
2008-04-30	0.377	0.097	0.476	0.702	0.413	0.478	0.491	0.376	0.389	0.434
2008-05-31	0.355	0.103	0.397	0.741	0.399	0.489	0.495	0.403	0.403	0.446
2008-06-29	0.380	0.090	0.396	0.748	0.404	0.480	0.497	0.396	0.411	0.446
2008-07-31	0.301	0.062	0.384	0.688	0.359	0.472	0.430	0.346	0.383	0.407
2008-08-31	0.313	0.075	0.394	0.702	0.371	0.473	0.429	0.359	0.364	0.406
2008-09-28	0.460	0.267	0.420	0.638	0.444	0.558	0.482	0.339	0.373	0.438
2008-10-31	0.164	0.145	0.176	0.528	0.253	0.431	0.295	0.326	0.466	0.380
2008-11-30	0.169	0.150	0.162	0.528	0.252	0.449	0.342	0.371	0.519	0.420
2008-12-31	0.181	0.144	0.200	0.510	0.259	0.446	0.321	0.368	0.507	0.411
2009-01-30	0.180	0.142	0.193	0.471	0.246	0.466	0.338	0.384	0.474	0.415
2009-02-27	0.169	0.172	0.204	0.467	0.253	0.441	0.354	0.409	0.463	0.417
2009-03-31	0.109	0.124	0.151	0.436	0.205	0.396	0.308	0.381	0.427	0.378
2009-04-30	0.040	0.150	0.137	0.403	0.183	0.334	0.275	0.352	0.408	0.342
2009-05-29	0.076	0.142	0.201	0.377	0.199	0.346	0.297	0.390	0.408	0.360
2009-06-30	0.078	0.142	0.203	0.373	0.199	0.342	0.300	0.394	0.404	0.360
2009-07-31	0.066	0.135	0.200	0.361	0.196	0.337	0.304	0.385	0.403	0.358
2009-08-31	0.071	0.139	0.201	0.378	0.197	0.341	0.309	0.389	0.409	0.362
2009-09-30	0.071	0.151	0.193	0.389	0.201	0.327	0.310	0.392	0.416	0.381
2009-10-30	0.068	0.131	0.186	0.375	0.188	0.316	0.306	0.392	0.410	0.356
2009-11-30	0.079	0.150	0.190	0.372	0.198	0.328	0.317	0.391	0.444	0.370
2009-12-31	0.090	0.155	0.200	0.377	0.206	0.332	0.323	0.398	0.441	0.374
2010-01-29	0.095	0.187	0.218	0.373	0.219	0.330	0.342	0.414	0.415	0.375
2010-02-26	0.098	0.206	0.218	0.388	0.228	0.340	0.352	0.420	0.415	0.382
2010-03-31	0.118	0.208	0.224	0.374	0.231	0.325	0.356	0.434	0.416	0.383
2010-04-30	0.111	0.200	0.224	0.382	0.229	0.333	0.361	0.430	0.422	0.387
2010-05-31	0.109	0.189	0.229	0.374	0.225	0.341	0.364	0.428	0.419	0.388
2010-06-30	0.090	0.185	0.222	0.367	0.216	0.333	0.342	0.409	0.397	0.370
2010-07-30	0.106	0.218	0.222	0.374	0.230	0.343	0.344	0.403	0.386	0.369
2010-08-31	0.102	0.214	0.221	0.374	0.228	0.334	0.352	0.411	0.401	0.374
2010-09-30	0.104	0.232	0.210	0.380	0.232	0.347	0.342	0.396	0.413	0.374
2010-10-29	0.099	0.229	0.171	0.346	0.211	0.327	0.340	0.396	0.394	0.364
2010-11-30	0.084	0.237	0.138	0.331	0.197	0.289	0.345	0.388	0.373	0.351
2010-12-31	0.090	0.215	0.159	0.353	0.204	0.301	0.341	0.396	0.373	0.363
2011-01-29	0.123	0.251	0.175	0.351	0.225	0.293	0.356	0.419	0.406	0.369
2011-02-26	0.104	0.242	0.156	0.344	0.212	0.308	0.351	0.430	0.416	0.376
2011-03-31	0.115	0.258	0.168	0.339	0.220	0.314	0.371	0.442	0.421	0.387
2011-04-30	0.118	0.258	0.173	0.341	0.222	0.315	0.368	0.439	0.424	0.386
2011-05-31	0.137	0.251	0.207	0.306	0.225	0.298	0.379	0.441	0.414	0.383
2011-06-30	0.133	0.256	0.204	0.297	0.222	0.285	0.386	0.438	0.425	0.383
2011-07-30	0.124	0.252	0.210	0.299	0.221	0.281	0.382	0.440	0.418	0.380
2011-08-31	0.118	0.250	0.192	0.292	0.213	0.282	0.379	0.431	0.423	0.379
2011-09-30	0.100	0.230	0.177	0.332	0.210	0.271	0.345	0.402	0.358	0.344
2011-10-29	0.090	0.215	0.170	0.326	0.198	0.287	0.340	0.388	0.339	0.339
2011-11-30	0.067	0.208	0.148	0.357	0.194	0.320	0.327	0.377	0.359	0.346
2011-12-31	0.064	0.207	0.145	0.356	0.193	0.318	0.323	0.367	0.349	0.339
2012-01-29	0.061	0.202	0.148	0.351	0.191	0.283	0.316	0.443	0.343	0.321
2012-02-26	0.069	0.203	0.145	0.347	0.191	0.286	0.316	0.347	0.342	0.323
2012-03-31	0.073	0.202	0.144	0.349	0.192	0.289	0.316	0.347	0.346	0.324
2012-04-30	0.063	0.198	0.141	0.353	0.188	0.283	0.319	0.344	0.339	0.321
2012-05-31	0.051	0.226	0.156	0.349	0.195	0.310	0.316	0.358	0.401	0.346
2012-06-30	0.044	0.220	0.149	0.352	0.191	0.301	0.310	0.355	0.392	0.339
2012-07-30	0.047	0.223	0.150	0.353	0.193	0.302	0.310	0.359	0.395	0.341
2012-08-31	0.042	0.210	0.146	0.351	0.187	0.297	0.292	0.346	0.385	0.332
2012-09-30	0.044	0.208	0.149	0.356	0.189	0.291	0.294	0.350	0.391	0.329
2012-10-29	0.020	0.207	0.141	0.360	0.182	0.291	0.260	0.329	0.400	0.320
2012-11-30	-0.004	0.232	0.129	0.332	0.172	0.292	0.222	0.328	0.410	0.313
2012-12-31	0.011	0.232	0.125	0.324	0.173	0.293	0.224	0.329	0.397	0.311
2013-01-29	0.043	0.232	0.121	0.308	0.176	0.291	0.222	0.321	0.397	0.308
2013-02-26	0.068	0.247	0.123	0.308	0.187	0.299	0.225	0.326	0.398	0.312
2013-03-31	0.066	0.250	0.127	0.309	0.185	0.290	0.229	0.326	0.401	0.312
2013-04-30	0.037	0.239	0.142	0.326	0.186	0.279	0.244	0.350	0.393	0.316
2013-05-31	0.010	0.221	0.146	0.304	0.170	0.266	0.216	0.329	0.394	0.301
2013-06-30	0.015	0.241	0.153	0.298	0.176	0.269	0.221	0.340	0.412	0.310
2013-07-30	0.036	0.248	0.150	0.291	0.181	0.281	0.232	0.354	0.406	0.313
2013-08-31	0.031	0.239	0.148	0.282	0.175	0.258	0.228	0.350	0.411	0.312
2013-09-30	-0.128	0.138	0.076	0.234	0.080	0.162	0.132	0.365	0.408	0.264
2013-10-29	0.057	0.234	0.293	0.201	0.196	0.152	0.230	0.379	0.323	0.271
2013-11-30	0.047	0.230	0.320	0.183	0.195	0.111	0.158	0.313	0.227	0.202
2013-12-31	0.027	0.255	0.282	0.176	0.185	0.117	0.187	0.329	0.223	0.214
2014-01-29	0.015	0.250	0.277	0.246	0.197	0.081	0.191	0.327	0.261	0.215
2014-02-26	0.026	0.196	0.284	0.233	0.185	0.096	0.136	0.269	0.277	0.194
2014-03-31	0.127	0.285	0.381	0.260	0.263	0.153	0.204	0.314	0.347	0.254
2014-04-30	0.202	0.260	0.413	0.271	0.287	0.209	0.233	0.348	0.328	0.279
2014-05-31	0.201	0.349	0.331	0.303	0.296	0.202	0.197	0.269	0.339	0.252
2014-06-30	0.204	0.348	0.324	0.309	0.296	0.233	0.175	0.264	0.396	0.267
2014-07-30	0.234	0.382	0.336	0.303	0.314	0.240	0.174	0.294	0.403	0.278
2014-08-31	0.231	0.382	0.335	0.305	0.314	0.255	0.174	0.305	0.400	0.284
2014-09-30	0.253	0.365	0.320	0.277	0.304	0.337	0.201	0.305	0.457	0.325
2014-10-29	0.270	0.366	0.299	0.280	0.304	0.362	0.211	0.321	0.428	0.331
2014-11-30	0.230	0.326	0.288	0.282	0.281	0.318	0.163	0.313	0.344	0.284
2014-12-31	0.204	0.315	0.263	0.274	0.264	0.287	0.112	0.280	0.341	0.255
2015-01-30	0.186	0.230	0.228	0.280	0.230	0.284	0.040	0.218		0.180
2015-02-27	0.152	0.197	0.204	0.274	0.207	0.254	0.000	0.184		0.146
2015-03-31	0.124	0.189	0.192	0.303	0.202	0.295	-0.033	0.142		0.135
2015-04-30	0.133	0.191	0.203	0.292	0.205	0.300	-0.026	0.162		0.145
2015-05-29	0.146	0.209	0.189	0.288	0.208	0.283	-0.042	0.170		0.137
2015-06-30	0.184	0.257	0.259	0.314	0.253	0.307	0.017	0.227		0.184
2015-07-31	0.133	0.183	0.201	0.302	0.205	0.309	0.033	0.231		0.191
2015-08-31	0.147	0.150	0.236	0.312	0.211	0.336	0.071	0.315		0.240
2015-09-30	0.133	0.093	0.116	0.270	0.153	0.416	0.161	0.374		0.317
2016-10-30	0.128	0.081	0.109	0.269	0.147	0.417	0.184	0.398		0.333

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2015-11-30	0.111	0.048	0.116	0.269	0.136	0.447	0.203	0.428	0.359
2015-12-31	0.096	0.078	0.065	0.233	0.118	0.462	0.258	0.328	0.350
2016-01-29	0.062	0.062	0.037	0.216	0.094	0.442	0.240	0.314	0.332
2016-02-29*	0.112	0.097	0.077	0.233	0.130	0.478	0.263	0.269	0.332
2016-03-31	0.227	0.141	0.160	0.313	0.210	0.485	0.289	0.289	0.364
2016-04-29	0.212	0.105	0.128	0.344	0.197	0.521	0.302	0.298	0.374
2016-05-31	0.229	0.109	0.137	0.342	0.204	0.537	0.314	0.319	0.380
2016-06-30	0.214	0.088	0.118	0.351	0.193	0.576	0.286	0.309	0.390
2016-07-29	0.260	0.087	0.084	0.364	0.196	0.534	0.262	0.288	0.367
2016-08-31	0.288	0.086	0.089	0.349	0.206	0.537	0.288	0.306	0.370
2016-09-30	0.420	0.125	0.125	0.222	0.223	0.656	0.388	0.394	0.479
2016-10-31	0.503	0.115	0.112	0.231	0.240	0.631	0.388	0.443	0.487
2016-11-30	0.474	0.091	0.069	0.239	0.218	0.626	0.383	0.433	0.481
2016-12-30	0.474	0.091	0.070	0.246	0.220	0.645	0.415	0.467	0.509
2017-01-31	0.523	0.115	0.081	0.242	0.241	0.784	0.453	0.580	0.606
2017-02-28	0.499	0.111	0.087	0.254	0.238	0.767	0.451	0.569	0.596
2017-03-31	0.511	0.123	0.083	0.251	0.242	0.770	0.459	0.566	0.598
2017-04-28	0.538	0.136	0.104	0.240	0.254	0.792	0.484	0.569	0.615
2017-05-31	0.499	-0.008	0.022	0.181	0.174	0.739	0.576	0.582	0.632
2017-06-30	0.491	-0.003	0.017	0.184	0.172	0.750	0.581	0.585	0.639
2017-07-31	0.504	0.006	0.020	0.198	0.181	0.753	0.582	0.576	0.637
2017-08-31	0.531	0.029	0.042	0.194	0.199	0.772	0.628	0.610	0.670
2017-09-29	0.521	0.010	-0.005	0.170	0.174	0.820	0.682	0.583	0.695
2017-10-31	0.518	0.031	0.033	0.165	0.187	0.782	0.627	0.564	0.658
2017-11-30	0.528	0.010	0.024	0.156	0.179	0.789	0.646	0.581	0.672
2017-12-29	0.493	-0.001	0.011	0.148	0.163	0.792	0.622	0.571	0.662
2018-01-31	0.482	0.007	0.058	0.171	0.179	0.846	0.676	0.631	0.718
2018-02-28	0.530	0.130	0.102	0.279	0.260	0.840	0.738	0.834	0.737
2018-03-29	0.536	0.132	0.097	0.280	0.261	0.875	0.747	0.846	0.756
2018-04-30	0.554	0.181	0.106	0.275	0.279	0.922	0.756	0.689	0.789
2018-05-31	0.550	0.203	0.094	0.281	0.282	0.999	0.809	0.690	0.833
2018-06-29	0.557	0.118	0.049	0.289	0.253	1.047	0.889	0.683	0.873
2018-07-31	0.533	0.128	0.058	0.302	0.255	1.079	0.882	0.676	0.879
2018-08-31	0.568	0.173	0.075	0.319	0.284	1.102	0.907	0.713	0.907
2018-09-28	0.557	0.196	0.085	0.339	0.294	1.095	0.944	0.743	0.927
2018-10-31	0.431	0.089	-0.030	0.291	0.196	1.072	0.830	0.752	0.885
2018-11-30	0.434	0.116	-0.011	0.296	0.209	1.083	0.850	0.778	0.904
2018-12-31	0.402	0.145	0.049	0.339	0.233	1.107	0.793	0.857	0.919
2019-01-31	0.486	0.232	0.080	0.409	0.302	1.231	0.921	1.002	1.051
2019-02-28	0.488	0.219	0.089	0.483	0.319	1.228	0.945	1.045	1.073
2019-03-29	0.485	0.217	0.089	0.503	0.324	1.222	0.932	1.043	1.086
2019-04-30	0.496	0.228	0.077	0.495	0.324	1.181	0.911	1.068	1.054
2019-05-31	0.443	0.200	0.052	0.496	0.298	1.142	0.867	1.015	1.008
2019-06-28	0.421	0.222	0.066	0.494	0.301	1.109	0.878	1.023	1.003
2019-07-31	0.428	0.225	0.061	0.499	0.303	1.114	0.868	1.009	0.997
2019-08-30	0.430	0.224	0.063	0.500	0.304	1.084	0.867	0.990	0.980
2019-09-30	0.445	0.239	0.091	0.501	0.319	1.069	0.905	1.025	1.000
2019-10-31	0.452	0.319	0.144	0.305	0.305	1.095	0.901	1.022	1.006
2019-11-29	0.466	0.301	0.087	0.281	0.281	1.091	0.929	1.005	1.008
2019-12-31	0.462	0.294	0.074	0.277	0.277	1.114	0.965	1.019	1.033
2020-01-31	0.470	0.311	0.093	0.291	0.291	1.125	0.974	1.028	1.042
2020-02-28	0.465	0.389	0.227	0.360	0.360	1.120	1.043	1.060	1.074
2020-03-31	0.635	0.292	0.145	0.357	0.357	1.766	1.057	0.857	1.223
2020-04-30	0.567	0.267	0.105	0.309	0.309	1.790	0.964	0.780	1.171
2020-05-29	0.548	0.249	0.092	0.296	0.296	1.796	0.971	0.735	1.167
2020-06-30	0.546	0.221	0.050	0.273	0.273	1.808	0.951	0.704	1.154
2020-07-31	0.544	0.250	0.077	0.290	0.290	1.750	0.949	0.711	1.137
2020-08-31	0.545	0.264	0.042	0.283	0.283	1.762	0.945	0.666	1.124
2020-09-30	0.558	0.242	0.063	0.288	0.288	1.763	0.933	0.680	1.119
2020-10-30	0.568	0.255	0.084	0.302	0.302	1.739	0.925	0.676	1.113
2020-11-30	0.201	0.559	0.232	0.066	0.265	1.750	0.948	0.687	1.128
2020-12-31	0.190	0.552	0.238	0.067	0.262	1.758	0.948	0.720	1.142
2021-01-29	0.185	0.560	0.249	0.087	0.275	1.760	0.956	0.731	1.149
2021-02-26	0.148	0.555	0.224	0.063	0.247	1.723	0.949	0.709	1.127
2021-03-31	0.149	0.544	0.238	0.061	0.248	1.764	0.954	0.731	1.150
2021-04-30	0.162	0.557	0.253	0.070	0.261	1.781	0.957	0.739	1.162
2021-05-31	0.170	0.555	0.251	0.069	0.261	1.754	0.944	0.732	1.143
2021-06-30	0.170	0.552	0.252	0.071	0.261	1.753	0.958	0.738	1.149
2021-07-30	0.174	0.533	0.252	0.078	0.259	1.781	0.975	0.735	1.164
2021-08-31	0.175	0.528	0.252	0.076	0.258	1.777	0.975	0.732	1.161
2021-09-30	0.189	0.539	0.265	0.087	0.270	1.745	0.957	0.713	1.136
2021-10-29	0.175	0.551	0.263	0.075	0.266	1.721	0.949	0.740	1.137
2021-11-30	0.170	0.568	0.266	0.086	0.273	1.741	0.965	0.768	1.158
2021-12-31	0.180	0.579	0.280	0.106	0.286	1.731	0.967	0.762	1.163
2022-01-31	0.181	0.578	0.286	0.108	0.288	1.721	0.954	0.746	1.140
2022-02-28	0.183	0.578	0.287	0.111	0.290	1.721	0.953	0.743	1.139
2022-03-31	0.204	0.595	0.295	0.126	0.305	1.733	0.958	0.749	1.147
2022-04-29	0.184	0.573	0.284	0.121	0.290	1.658	0.945	0.750	1.118
2022-05-31	0.179	0.581	0.287	0.120	0.292	1.658	0.928	0.744	1.110
2022-06-30	0.180	0.578	0.306	0.162	0.306	1.622	0.919	0.756	1.099
2022-07-29	0.182	0.593	0.303	0.153	0.308	1.624	0.924	0.754	1.100
2022-08-31	0.185	0.595	0.303	0.162	0.311	1.628	0.930	0.767	1.108
2022-09-30	0.210	0.636	0.342	0.210	0.350	1.628	0.934	0.809	1.124
2022-10-31	0.208	0.627	0.290	0.199	0.331	1.635	0.941	0.828	1.134
2022-11-30	0.241	0.624	0.297	0.205	0.342	1.639	0.944	0.807	1.130
2022-12-30	0.265	0.614	0.300	0.204	0.343	1.628	0.946	0.826	1.134
2023-01-31	0.237	0.588	0.301	0.186	0.328	1.564	0.907	0.815	1.095
2023-02-28	0.221	0.577	0.288	0.179	0.311	1.579	0.897	0.825	1.100
2023-03-31	0.214	0.572	0.264	0.175	0.306	1.577	0.895	0.824	1.099
2023-04-28	0.219	0.581	0.272	0.181	0.313	1.572	0.903	0.832	1.102
2023-05-31	0.244	0.606	0.284	0.203	0.334	1.560	0.925	0.847	1.111
2023-06-30	0.236	0.567	0.273	0.200	0.324	1.558	0.913	0.845	1.105

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2023-07-31	0.232	0.578	0.269	0.195	0.319	1.551	0.907	0.821	1.093
2023-08-31	0.244	0.578	0.276	0.204	0.326	1.542	0.904	0.808	1.084
2023-09-29	0.250	0.606	0.291	0.209	0.339	1.530	0.904	0.802	1.079
2023-10-31	0.227	0.604	0.320	0.214	0.342	1.542	0.922	0.787	1.084
2023-11-30	0.237	0.607	0.328	0.198	0.343	1.512	0.927	0.786	1.075
2023-12-29	0.266	0.630	0.333	0.192	0.355	1.502	0.934	0.763	1.066
2024-01-31	0.279	0.615	0.313	0.188	0.349	1.480	0.901	0.710	1.030
	0.282	0.609	0.312	0.186	0.347	1.482	0.900	0.704	1.029

T	T-5
0.471	0.041413
0.041413	0.280537
0.280537	0.438564
0.438564	0.505853
0.505853	0.05157
0.05157	0.414696
0.414696	0.18462
0.18462	0.414696
0.414696	0.359276
0.359276	0.109209
0.109209	0.824742
0.824742	0.82792
0.82792	0.762735
0.745	0.542264
0.542264	0.71763
0.71763	0.733339
0.733339	0.176068
0.176068	0.005468
0.005468	0.393144
0.393144	0.188268
0.188268	0.393144
0.393144	0.315737
0.315737	0.326829
0.326829	0.733175
0.733175	0.958929
0.958929	0.715428
0.761	0.300835
0.300835	0.618336
0.618336	0.823099
0.823099	0.251866
0.251866	0.067668
0.067668	0.608662
0.608662	0.136892
0.136892	0.608662
0.608662	0.532722
0.532722	0.376289
0.376289	0.562045
0.562045	0.77485
0.77485	0.871473
0.492	0.173286
0.173286	0.512093
0.512093	0.55625

T refers to the betas at time period T and T-5 the beta five years earlier

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0.55625 0.252409
0.252409 0.156162
0.156162 1.152851
1.152851 0.284574
0.284574 1.152851
1.152851 0.548229
0.548229 0.307683
0.307683 0.509165
0.509165 1.096678