

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule****The GENMOD Procedure**

Model Information	
Data Set	HW3.EASTEREGG
Distribution	Poisson
Link Function	Log
Dependent Variable	EndSeq
Offset Variable	EndSeq

Number of Observations Read	51147
Number of Observations Used	51147

Class Level Information		
Class	Levels	Values
FirstDelayCause	5	CarrierDelay LateAircraft NASDelay SecurityDela WeatherDelay
FirstOrigin	291	ABE ABI ABQ ABR ABY ACK ACT ACV ACY ADQ AEX AGS ALB ALO AMA ANC APN ASE ATL ATW AUS AVL AVP AZO BDL BET BFL BGR BHM BIL BIS BJI BLI BMI BNA BOI BOS BPT BQK BQN BRD BRO BTM BTR BTV BUF BUR BWI BZN CAE CAK CDC CDV CHA CHO CHS CID CIU CLE CLL CLT CMH CMI ...

Criteria For Assessing Goodness Of Fit			
Criterion	DF	Value	Value/DF
Deviance	51E3	128570.2730	2.5284
Scaled Deviance	51E3	128570.2730	2.5284
Pearson Chi-Square	51E3	206489.0568	4.0607
Scaled Pearson X2	51E3	206489.0568	4.0607
Log Likelihood		-52224.4342	
Full Log Likelihood		-137282.3450	
AIC (smaller is better)		275156.6901	
AICC (smaller is better)		275160.1478	
BIC (smaller is better)		277774.0580	

Algorithm converged.
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Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
Intercept		1	-2.8563	0.1800	-3.2091	-2.5035	251.78	<.0001
SequenceDist		1	-0.0007	0.0000	-0.0007	-0.0007	74697.9	<.0001
FirstDelayCause	CarrierDelay	1	0.0035	0.0119	-0.0198	0.0268	0.09	0.7694
FirstDelayCause	LateAircraft	1	0.2925	0.0120	0.2689	0.3160	593.12	<.0001
FirstDelayCause	NASDelay	1	0.0447	0.0133	0.0186	0.0709	11.26	0.0008
FirstDelayCause	SecurityDela	1	-0.0847	0.0560	-0.1944	0.0251	2.29	0.1305
FirstDelayCause	WeatherDelay	0	0.0000	0.0000	0.0000	0.0000	.	.
FirstOrigin	ABE	1	1.7480	0.2540	1.2502	2.2458	47.36	<.0001
FirstOrigin	ABI	1	1.1202	0.2206	0.6878	1.5525	25.79	<.0001
FirstOrigin	ABQ	1	0.7296	0.1851	0.3668	1.0923	15.54	<.0001
FirstOrigin	ABR	1	0.5398	0.3078	-0.0636	1.1431	3.07	0.0795
FirstOrigin	ABY	1	1.1625	0.3400	0.4961	1.8288	11.69	0.0006
FirstOrigin	ACK	1	0.8411	0.3221	0.2098	1.4724	6.82	0.0090
FirstOrigin	ACT	1	-1.0413	0.2314	-1.4948	-0.5878	20.25	<.0001
FirstOrigin	ACV	1	1.4190	0.4185	0.5987	2.2392	11.50	0.0007
FirstOrigin	ACY	1	1.9812	0.2083	1.5730	2.3894	90.48	<.0001
FirstOrigin	ADQ	1	1.7206	0.7296	0.2907	3.1505	5.56	0.0184
FirstOrigin	AEX	1	1.3209	0.2102	0.9090	1.7329	39.50	<.0001
FirstOrigin	AGS	1	0.6442	0.2277	0.1978	1.0906	8.00	0.0047
FirstOrigin	ALB	1	1.2885	0.2013	0.8939	1.6831	40.96	<.0001
FirstOrigin	ALO	1	-0.1199	0.3145	-0.7364	0.4966	0.15	0.7030
FirstOrigin	AMA	1	0.2441	0.2058	-0.1593	0.6475	1.41	0.2356
FirstOrigin	ANC	1	1.3937	0.1930	1.0154	1.7719	52.16	<.0001
FirstOrigin	APN	1	1.2730	0.4820	0.3283	2.2177	6.98	0.0083
FirstOrigin	ASE	1	1.7657	0.7296	0.3358	3.1957	5.86	0.0155
FirstOrigin	ATL	1	1.4244	0.1799	1.0717	1.7770	62.67	<.0001
FirstOrigin	ATW	1	1.5634	0.2262	1.1202	2.0067	47.79	<.0001
FirstOrigin	AUS	1	1.0260	0.1816	0.6701	1.3818	31.92	<.0001
FirstOrigin	AVL	1	0.9830	0.2719	0.4501	1.5160	13.07	0.0003
FirstOrigin	AVP	1	1.4788	0.2719	0.9459	2.0118	29.57	<.0001
FirstOrigin	AZO	1	1.4472	0.3637	0.7343	2.1601	15.83	<.0001
FirstOrigin	BDL	1	1.5541	0.1881	1.1855	1.9228	68.29	<.0001
FirstOrigin	BET	1	1.2755	0.3400	0.6091	1.9419	14.07	0.0002
FirstOrigin	BFL	1	0.0355	0.2072	-0.3706	0.4416	0.03	0.8640

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Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
FirstOrigin	BGR	1	1.9491	0.3637	1.2363	2.6619	28.72	<.0001
FirstOrigin	BHM	1	1.4233	0.1905	1.0500	1.7967	55.83	<.0001
FirstOrigin	BIL	1	1.7791	0.2826	1.2252	2.3331	39.62	<.0001
FirstOrigin	BIS	1	1.0195	0.2420	0.5451	1.4939	17.74	<.0001
FirstOrigin	BJI	1	1.5299	0.5313	0.4885	2.5713	8.29	0.0040
FirstOrigin	BLI	1	2.0090	0.2752	1.4696	2.5484	53.29	<.0001
FirstOrigin	BMI	1	1.2315	0.2752	0.6920	1.7709	20.02	<.0001
FirstOrigin	BNA	1	1.3445	0.1820	0.9877	1.7012	54.55	<.0001
FirstOrigin	BOI	1	0.7205	0.1922	0.3438	1.0972	14.05	0.0002
FirstOrigin	BOS	1	1.1246	0.1808	0.7702	1.4791	38.67	<.0001
FirstOrigin	BPT	1	1.5872	0.2561	1.0852	2.0891	38.40	<.0001
FirstOrigin	BQK	1	1.0768	0.3510	0.3890	1.7647	9.41	0.0022
FirstOrigin	BQN	1	2.2210	0.2255	1.7791	2.6629	97.04	<.0001
FirstOrigin	BRD	1	-0.0352	0.4819	-0.9798	0.9093	0.01	0.9417
FirstOrigin	BRO	1	0.9147	0.2131	0.4970	1.3324	18.42	<.0001
FirstOrigin	BTM	1	1.6382	0.5313	0.5969	2.6795	9.51	0.0020
FirstOrigin	BTR	1	0.5891	0.1909	0.2149	0.9633	9.52	0.0020
FirstOrigin	BTV	1	-0.0587	0.2159	-0.4818	0.3645	0.07	0.7858
FirstOrigin	BUF	1	1.3052	0.1906	0.9316	1.6788	46.89	<.0001
FirstOrigin	BUR	1	0.5567	0.1886	0.1871	0.9263	8.72	0.0032
FirstOrigin	BWI	1	1.2183	0.1806	0.8644	1.5723	45.51	<.0001
FirstOrigin	BZN	1	1.2795	0.3966	0.5022	2.0567	10.41	0.0013
FirstOrigin	CAE	1	1.3459	0.2024	0.9492	1.7426	44.22	<.0001
FirstOrigin	CAK	1	1.5016	0.2058	1.0982	1.9050	53.22	<.0001
FirstOrigin	CDC	1	1.5443	0.3966	0.7671	2.3216	15.16	<.0001
FirstOrigin	CDV	1	1.6564	0.7296	0.2265	3.0863	5.15	0.0232
FirstOrigin	CHA	1	0.9314	0.2127	0.5144	1.3483	19.17	<.0001
FirstOrigin	CHO	1	1.7009	0.3078	1.0975	2.3042	30.53	<.0001
FirstOrigin	CHS	1	1.5989	0.1901	1.2263	1.9715	70.73	<.0001
FirstOrigin	CID	1	1.3622	0.2030	0.9644	1.7600	45.05	<.0001
FirstOrigin	CIU	1	1.1809	0.3220	0.5498	1.8121	13.45	0.0002
FirstOrigin	CLE	1	1.4528	0.1830	1.0941	1.8115	63.03	<.0001
FirstOrigin	CLL	1	0.7299	0.2541	0.2318	1.2279	8.25	0.0041
FirstOrigin	CLT	1	1.6453	0.1808	1.2908	1.9997	82.77	<.0001

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Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
FirstOrigin	CMH	1	1.3125	0.1850	0.9498	1.6752	50.31	<.0001
FirstOrigin	CMI	1	0.5473	0.2467	0.0639	1.0307	4.92	0.0265
FirstOrigin	CMX	1	1.6210	0.5313	0.5796	2.6623	9.31	0.0023
FirstOrigin	COD	1	1.4360	0.2659	0.9148	1.9572	29.16	<.0001
FirstOrigin	COS	1	1.5276	0.1933	1.1487	1.9065	62.45	<.0001
FirstOrigin	COU	1	1.3607	0.2421	0.8862	1.8352	31.59	<.0001
FirstOrigin	CPR	1	1.5090	0.3966	0.7318	2.2863	14.48	0.0001
FirstOrigin	CRP	1	-0.1089	0.1948	-0.4907	0.2729	0.31	0.5762
FirstOrigin	CRW	1	1.2696	0.2225	0.8336	1.7057	32.56	<.0001
FirstOrigin	CSG	1	0.6856	0.3018	0.0941	1.2772	5.16	0.0231
FirstOrigin	CVG	1	1.3342	0.1849	0.9718	1.6966	52.06	<.0001
FirstOrigin	CWA	1	0.6957	0.2869	0.1334	1.2580	5.88	0.0153
FirstOrigin	DAB	1	0.7195	0.2964	0.1385	1.3004	5.89	0.0152
FirstOrigin	DAL	1	0.3777	0.1805	0.0240	0.7314	4.38	0.0363
FirstOrigin	DAY	1	1.2296	0.1956	0.8461	1.6130	39.50	<.0001
FirstOrigin	DBQ	1	0.7246	0.4461	-0.1497	1.5989	2.64	0.1043
FirstOrigin	DCA	1	1.3350	0.1813	0.9796	1.6903	54.21	<.0001
FirstOrigin	DEN	1	1.5316	0.1801	1.1785	1.8846	72.30	<.0001
FirstOrigin	DFW	1	1.3121	0.1799	0.9595	1.6647	53.20	<.0001
FirstOrigin	DHN	1	1.1256	0.2868	0.5634	1.6877	15.40	<.0001
FirstOrigin	DIK	1	1.0460	0.3637	0.3332	1.7588	8.27	0.0040
FirstOrigin	DLH	1	1.4955	0.3400	0.8291	2.1619	19.35	<.0001
FirstOrigin	DRO	1	1.2598	0.2239	0.8210	1.6986	31.67	<.0001
FirstOrigin	DSM	1	1.5587	0.1969	1.1729	1.9446	62.69	<.0001
FirstOrigin	DTW	1	1.2687	0.1807	0.9146	1.6229	49.30	<.0001
FirstOrigin	EAU	1	1.5319	0.3510	0.8440	2.2199	19.05	<.0001
FirstOrigin	ECP	1	0.8173	0.2019	0.4216	1.2129	16.39	<.0001
FirstOrigin	EKO	1	1.5291	0.5313	0.4878	2.5704	8.28	0.0040
FirstOrigin	ELM	1	1.4860	0.2583	0.9797	1.9924	33.09	<.0001
FirstOrigin	ELP	1	0.9964	0.1882	0.6274	1.3653	28.02	<.0001
FirstOrigin	ERI	1	1.6398	0.3637	0.9269	2.3526	20.32	<.0001
FirstOrigin	ESC	1	0.4617	0.3787	-0.2805	1.2040	1.49	0.2228
FirstOrigin	EUG	1	0.9506	0.2031	0.5526	1.3486	21.92	<.0001
FirstOrigin	EVV	1	1.4850	0.2246	1.0448	1.9252	43.71	<.0001

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FirstOrigin	EWN	1	1.3372	0.3787	0.5951	2.0794	12.47	0.0004
FirstOrigin	EWR	1	1.7539	0.1806	1.4000	2.1078	94.34	<.0001
FirstOrigin	EYW	1	0.4971	0.2520	0.0031	0.9910	3.89	0.0486
FirstOrigin	FAI	1	2.5651	0.3220	1.9339	3.1962	63.45	<.0001
FirstOrigin	FAR	1	1.5399	0.2261	1.0967	1.9831	46.38	<.0001
FirstOrigin	FAT	1	1.0387	0.1955	0.6555	1.4219	28.22	<.0001
FirstOrigin	FAY	1	0.1634	0.2688	-0.3635	0.6903	0.37	0.5432
FirstOrigin	FCA	1	1.8788	0.3786	1.1367	2.6209	24.62	<.0001
FirstOrigin	FLG	1	1.1773	0.3510	0.4894	1.8652	11.25	0.0008
FirstOrigin	FLL	1	1.9263	0.1813	1.5710	2.2815	112.95	<.0001
FirstOrigin	FNT	1	1.4693	0.2261	1.0261	1.9125	42.22	<.0001
FirstOrigin	FSD	1	1.4412	0.2123	1.0250	1.8573	46.07	<.0001
FirstOrigin	FSM	1	1.3683	0.2380	0.9018	1.8348	33.05	<.0001
FirstOrigin	FWA	1	0.6319	0.2102	0.2199	1.0438	9.04	0.0026
FirstOrigin	GCC	1	0.9271	0.4185	0.1068	1.7474	4.91	0.0267
FirstOrigin	GCK	1	1.6371	0.2963	1.0563	2.2180	30.52	<.0001
FirstOrigin	GEG	1	1.1318	0.2047	0.7307	1.5329	30.58	<.0001
FirstOrigin	GFK	1	1.3435	0.6046	0.1584	2.5286	4.94	0.0263
FirstOrigin	GGG	1	0.9833	0.3787	0.2411	1.7254	6.74	0.0094
FirstOrigin	GJT	1	1.2041	0.2393	0.7350	1.6731	25.31	<.0001
FirstOrigin	GNV	1	0.6596	0.2788	0.1131	1.2060	5.60	0.0180
FirstOrigin	GPT	1	1.2429	0.2116	0.8281	1.6576	34.49	<.0001
FirstOrigin	GRB	1	0.9790	0.2304	0.5273	1.4306	18.05	<.0001
FirstOrigin	GRI	1	1.2088	0.3146	0.5921	1.8255	14.76	0.0001
FirstOrigin	GRK	1	1.0818	0.2225	0.6457	1.5179	23.64	<.0001
FirstOrigin	GRR	1	1.0919	0.1957	0.7084	1.4754	31.14	<.0001
FirstOrigin	GSO	1	0.9980	0.1990	0.6079	1.3881	25.14	<.0001
FirstOrigin	GSP	1	1.4001	0.1971	1.0137	1.7864	50.45	<.0001
FirstOrigin	GTF	1	1.9354	0.7296	0.5054	3.3654	7.04	0.0080
FirstOrigin	GTR	1	1.4652	0.4185	0.6450	2.2854	12.26	0.0005
FirstOrigin	GUM	1	4.4237	0.2720	3.8905	4.9568	264.46	<.0001
FirstOrigin	HIB	1	0.6231	0.3966	-0.1542	1.4003	2.47	0.1161
FirstOrigin	HLN	1	-0.0709	0.2964	-0.6518	0.5100	0.06	0.8109
FirstOrigin	HNL	1	0.3581	0.1869	-0.0082	0.7243	3.67	0.0553

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FirstOrigin	HOB	1	0.9743	0.3306	0.3265	1.6222	8.69	0.0032
FirstOrigin	HOU	1	0.6464	0.1807	0.2921	1.0006	12.79	0.0003
FirstOrigin	HPN	1	1.9131	0.2030	1.5153	2.3109	88.84	<.0001
FirstOrigin	HRL	1	0.6165	0.2324	0.1610	1.0720	7.04	0.0080
FirstOrigin	HSV	1	1.4097	0.2095	0.9991	1.8203	45.28	<.0001
FirstOrigin	IAD	1	2.1328	0.1822	1.7758	2.4898	137.09	<.0001
FirstOrigin	IAH	1	1.6500	0.1800	1.2972	2.0028	84.01	<.0001
FirstOrigin	ICT	1	0.7809	0.1919	0.4049	1.1570	16.56	<.0001
FirstOrigin	IDA	1	1.5529	0.2788	1.0065	2.0993	31.03	<.0001
FirstOrigin	ILM	1	0.5398	0.2914	-0.0313	1.1108	3.43	0.0639
FirstOrigin	IMT	1	1.4344	0.7296	0.0044	2.8643	3.87	0.0493
FirstOrigin	IND	1	1.5027	0.1857	1.1387	1.8667	65.47	<.0001
FirstOrigin	INL	1	0.9412	0.3787	0.1990	1.6834	6.18	0.0129
FirstOrigin	ISN	1	1.4771	0.2483	0.9904	1.9638	35.38	<.0001
FirstOrigin	ISP	1	1.0087	0.2089	0.5993	1.4181	23.32	<.0001
FirstOrigin	ITO	1	1.8424	0.3078	1.2391	2.4458	35.82	<.0001
FirstOrigin	JAC	1	1.5966	0.4185	0.7763	2.4168	14.55	0.0001
FirstOrigin	JAN	1	0.4615	0.1933	0.0826	0.8405	5.70	0.0170
FirstOrigin	JAX	1	1.5203	0.1867	1.1543	1.8863	66.30	<.0001
FirstOrigin	JFK	1	1.9008	0.1808	1.5464	2.2552	110.51	<.0001
FirstOrigin	JLN	1	1.3504	0.2608	0.8393	1.8615	26.82	<.0001
FirstOrigin	JMS	1	1.5602	0.4185	0.7400	2.3804	13.90	0.0002
FirstOrigin	JNU	1	1.0148	0.2239	0.5760	1.4536	20.55	<.0001
FirstOrigin	KOA	1	2.1887	0.2212	1.7552	2.6223	97.91	<.0001
FirstOrigin	KTN	1	-0.4239	0.2789	-0.9705	0.1228	2.31	0.1286
FirstOrigin	LAN	1	1.1909	0.2914	0.6197	1.7620	16.70	<.0001
FirstOrigin	LAS	1	1.2701	0.1803	0.9168	1.6234	49.65	<.0001
FirstOrigin	LAW	1	0.8989	0.2437	0.4214	1.3765	13.61	0.0002
FirstOrigin	LAX	1	1.2655	0.1801	0.9124	1.6185	49.36	<.0001
FirstOrigin	LBB	1	0.8803	0.1998	0.4887	1.2718	19.41	<.0001
FirstOrigin	LBE	1	2.8076	0.2315	2.3538	3.2613	147.08	<.0001
FirstOrigin	LCH	1	0.9015	0.2278	0.4550	1.3480	15.66	<.0001
FirstOrigin	LEX	1	0.5918	0.2014	0.1971	0.9864	8.64	0.0033
FirstOrigin	LFT	1	1.1396	0.1977	0.7522	1.5270	33.24	<.0001

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FirstOrigin	LGA	1	1.0616	0.1809	0.7070	1.4161	34.44	<.0001
FirstOrigin	LGB	1	1.7740	0.1905	1.4005	2.1474	86.68	<.0001
FirstOrigin	LIH	1	-0.7200	0.2189	-1.1490	-0.2910	10.82	0.0010
FirstOrigin	LIT	1	1.0436	0.1899	0.6714	1.4158	30.20	<.0001
FirstOrigin	LNK	1	1.4143	0.2278	0.9678	1.8607	38.55	<.0001
FirstOrigin	LRD	1	1.5491	0.2467	1.0656	2.0325	39.44	<.0001
FirstOrigin	LSE	1	0.6779	0.3401	0.0113	1.3444	3.97	0.0462
FirstOrigin	MAF	1	0.9816	0.1959	0.5977	1.3656	25.11	<.0001
FirstOrigin	MBS	1	1.2415	0.3220	0.6104	1.8726	14.86	0.0001
FirstOrigin	MCI	1	1.2238	0.1824	0.8662	1.5814	45.00	<.0001
FirstOrigin	MCO	1	1.7867	0.1807	1.4326	2.1407	97.81	<.0001
FirstOrigin	MDT	1	1.6454	0.2194	1.2154	2.0754	56.24	<.0001
FirstOrigin	MDW	1	1.4011	0.1805	1.0473	1.7550	60.23	<.0001
FirstOrigin	MEI	1	1.3723	0.2752	0.8329	1.9117	24.86	<.0001
FirstOrigin	MEM	1	1.2952	0.1876	0.9275	1.6630	47.65	<.0001
FirstOrigin	MFE	1	0.9848	0.2106	0.5722	1.3975	21.88	<.0001
FirstOrigin	MFR	1	-0.0099	0.2168	-0.4349	0.4151	0.00	0.9634
FirstOrigin	MGM	1	0.9888	0.2212	0.5553	1.4223	19.98	<.0001
FirstOrigin	MHK	1	1.1955	0.2357	0.7336	1.6574	25.73	<.0001
FirstOrigin	MHT	1	1.5437	0.2061	1.1398	1.9476	56.11	<.0001
FirstOrigin	MIA	1	1.9660	0.1808	1.6117	2.3204	118.27	<.0001
FirstOrigin	MKE	1	1.2274	0.1856	0.8636	1.5911	43.74	<.0001
FirstOrigin	MKG	1	0.6548	0.3305	0.0070	1.3026	3.92	0.0476
FirstOrigin	MLB	1	0.8707	0.2752	0.3313	1.4102	10.01	0.0016
FirstOrigin	MLI	1	1.4192	0.2200	0.9880	1.8503	41.62	<.0001
FirstOrigin	MLU	1	0.3772	0.2183	-0.0507	0.8050	2.99	0.0840
FirstOrigin	MOB	1	1.0794	0.2051	0.6774	1.4815	27.69	<.0001
FirstOrigin	MOT	1	1.7548	0.2869	1.1926	2.3170	37.42	<.0001
FirstOrigin	MRY	1	1.0020	0.2295	0.5522	1.4518	19.06	<.0001
FirstOrigin	MSN	1	0.9957	0.2077	0.5887	1.4027	22.99	<.0001
FirstOrigin	MSO	1	1.8469	0.7296	0.4170	3.2768	6.41	0.0114
FirstOrigin	MSP	1	1.4812	0.1809	1.1266	1.8358	67.03	<.0001
FirstOrigin	MSY	1	1.4643	0.1819	1.1078	1.8209	64.79	<.0001
FirstOrigin	MVY	1	1.4926	0.5313	0.4512	2.5339	7.89	0.0050

## ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule

## The GENMOD Procedure

Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
FirstOrigin	MYR	1	1.5219	0.2019	1.1262	1.9176	56.83	<.0001
FirstOrigin	OAJ	1	1.3795	0.3966	0.6023	2.1568	12.10	0.0005
FirstOrigin	OAK	1	1.0613	0.1823	0.7040	1.4186	33.90	<.0001
FirstOrigin	OGG	1	-0.9171	0.1912	-1.2919	-0.5423	23.00	<.0001
FirstOrigin	OKC	1	0.5821	0.1851	0.2192	0.9450	9.89	0.0017
FirstOrigin	OMA	1	1.4477	0.1886	1.0781	1.8174	58.93	<.0001
FirstOrigin	OME	1	1.7130	0.4186	0.8925	2.5335	16.74	<.0001
FirstOrigin	ONT	1	0.2439	0.1855	-0.1197	0.6075	1.73	0.1886
FirstOrigin	ORD	1	1.3699	0.1799	1.0173	1.7225	57.98	<.0001
FirstOrigin	ORF	1	1.4045	0.1999	1.0127	1.7963	49.36	<.0001
FirstOrigin	ORH	1	2.0076	0.6046	0.8225	3.1927	11.02	0.0009
FirstOrigin	OTH	1	0.7288	0.3638	0.0159	1.4418	4.01	0.0451
FirstOrigin	OTZ	1	1.3984	0.4820	0.4537	2.3430	8.42	0.0037
FirstOrigin	PAH	1	1.2471	0.3637	0.5343	1.9599	11.76	0.0006
FirstOrigin	PBG	1	2.0755	0.5313	1.0342	3.1169	15.26	<.0001
FirstOrigin	PBI	1	1.9073	0.1850	1.5447	2.2699	106.28	<.0001
FirstOrigin	PDX	1	1.2368	0.1835	0.8772	1.5964	45.44	<.0001
FirstOrigin	PHF	1	1.3782	0.6047	0.1930	2.5633	5.19	0.0227
FirstOrigin	PHL	1	1.8910	0.1813	1.5358	2.2462	108.85	<.0001
FirstOrigin	PHX	1	1.5611	0.1804	1.2076	1.9146	74.91	<.0001
FirstOrigin	PIA	1	0.6552	0.2074	0.2487	1.0617	9.98	0.0016
FirstOrigin	PIB	1	-0.8690	0.3018	-1.4605	-0.2775	8.29	0.0040
FirstOrigin	PIT	1	1.7943	0.1872	1.4275	2.1611	91.91	<.0001
FirstOrigin	PNS	1	1.1909	0.2015	0.7960	1.5859	34.93	<.0001
FirstOrigin	PSC	1	1.8629	0.4460	0.9887	2.7371	17.45	<.0001
FirstOrigin	PSE	1	2.6252	0.3079	2.0218	3.2285	72.72	<.0001
FirstOrigin	PSG	1	1.0394	0.3251	0.4024	1.6765	10.23	0.0014
FirstOrigin	PSP	1	0.0420	0.1906	-0.3317	0.4156	0.05	0.8256
FirstOrigin	PUB	1	1.4384	0.4185	0.6181	2.2586	11.81	0.0006
FirstOrigin	PVD	1	1.5070	0.1944	1.1260	1.8881	60.08	<.0001
FirstOrigin	PWM	1	1.5152	0.2058	1.1118	1.9186	54.19	<.0001
FirstOrigin	RAP	1	0.5167	0.2286	0.0686	0.9648	5.11	0.0238
FirstOrigin	RDD	1	1.5932	0.3966	0.8159	2.3704	16.14	<.0001
FirstOrigin	RDM	1	1.2988	0.2335	0.8412	1.7565	30.94	<.0001



## ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule

## The GENMOD Procedure

Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
FirstOrigin	RDU	1	1.3157	0.1835	0.9559	1.6754	51.39	<.0001
FirstOrigin	RHI	1	1.4154	0.4819	0.4709	2.3600	8.63	0.0033
FirstOrigin	RIC	1	0.9658	0.1879	0.5975	1.3340	26.42	<.0001
FirstOrigin	RKS	1	1.1793	0.3637	0.4664	1.8922	10.51	0.0012
FirstOrigin	RNO	1	0.7899	0.1908	0.4160	1.1638	17.14	<.0001
FirstOrigin	ROA	1	1.2438	0.2380	0.7773	1.7103	27.31	<.0001
FirstOrigin	ROC	1	1.2167	0.1931	0.8382	1.5952	39.69	<.0001
FirstOrigin	ROW	1	1.6351	0.2633	1.1191	2.1511	38.57	<.0001
FirstOrigin	RST	1	0.8639	0.2520	0.3700	1.3578	11.75	0.0006
FirstOrigin	RSW	1	1.9634	0.1869	1.5971	2.3297	110.38	<.0001
FirstOrigin	SAF	1	0.4038	0.2451	-0.0765	0.8841	2.71	0.0994
FirstOrigin	SAN	1	1.1972	0.1813	0.8417	1.5526	43.59	<.0001
FirstOrigin	SAT	1	0.9844	0.1826	0.6265	1.3424	29.06	<.0001
FirstOrigin	SAV	1	1.0375	0.1903	0.6645	1.4106	29.71	<.0001
FirstOrigin	SBA	1	0.6071	0.1973	0.2204	0.9938	9.47	0.0021
FirstOrigin	SBN	1	-0.3101	0.2058	-0.7135	0.0933	2.27	0.1319
FirstOrigin	SBP	1	0.5682	0.2367	0.1043	1.0322	5.76	0.0164
FirstOrigin	SCE	1	1.7298	0.3304	1.0822	2.3774	27.40	<.0001
FirstOrigin	SDF	1	1.3479	0.1937	0.9683	1.7275	48.44	<.0001
FirstOrigin	SEA	1	1.8031	0.1809	1.4485	2.1577	99.33	<.0001
FirstOrigin	SFO	1	1.4562	0.1805	1.1025	1.8099	65.11	<.0001
FirstOrigin	SGF	1	1.1117	0.1969	0.7259	1.4976	31.89	<.0001
FirstOrigin	SGU	1	1.2081	0.2583	0.7018	1.7145	21.87	<.0001
FirstOrigin	SHV	1	-0.0329	0.1914	-0.4080	0.3422	0.03	0.8636
FirstOrigin	SIT	1	1.4728	0.3400	0.8064	2.1391	18.76	<.0001
FirstOrigin	SJC	1	0.9089	0.1836	0.5490	1.2688	24.50	<.0001
FirstOrigin	SJT	1	-0.0755	0.2220	-0.5106	0.3596	0.12	0.7338
FirstOrigin	SJU	1	1.3336	0.1867	0.9677	1.6995	51.02	<.0001
FirstOrigin	SLC	1	1.3520	0.1814	0.9964	1.7075	55.53	<.0001
FirstOrigin	SMF	1	0.8102	0.1836	0.4503	1.1701	19.47	<.0001
FirstOrigin	SMX	1	1.0950	0.4461	0.2208	1.9693	6.03	0.0141
FirstOrigin	SNA	1	1.3567	0.1828	0.9983	1.7151	55.05	<.0001
FirstOrigin	SPI	1	1.0981	0.2607	0.5871	1.6091	17.74	<.0001
FirstOrigin	SPS	1	0.3472	0.2561	-0.1548	0.8492	1.84	0.1752

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule****The GENMOD Procedure**

Analysis Of Maximum Likelihood Parameter Estimates								
Parameter		DF	Estimate	Standard Error	Wald 95% Confidence Limits		Wald Chi-Square	Pr > ChiSq
FirstOrigin	SRQ	1	1.9440	0.2393	1.4749	2.4131	65.98	<.0001
FirstOrigin	STL	1	1.3403	0.1822	0.9833	1.6973	54.14	<.0001
FirstOrigin	STT	1	2.2286	0.2109	1.8153	2.6419	111.71	<.0001
FirstOrigin	STX	1	1.9410	0.3304	1.2933	2.5886	34.50	<.0001
FirstOrigin	SUX	1	1.6014	0.3786	0.8593	2.3436	17.89	<.0001
FirstOrigin	SWF	1	2.2207	0.3018	1.6292	2.8122	54.14	<.0001
FirstOrigin	SYR	1	0.3888	0.2194	-0.0413	0.8189	3.14	0.0764
FirstOrigin	TLH	1	1.4474	0.2304	0.9957	1.8990	39.45	<.0001
FirstOrigin	TOL	1	1.3646	0.3304	0.7169	2.0123	17.05	<.0001
FirstOrigin	TPA	1	1.6307	0.1814	1.2753	1.9862	80.84	<.0001
FirstOrigin	TRI	1	0.0208	0.2450	-0.4595	0.5010	0.01	0.9324
FirstOrigin	TTN	1	1.6631	0.2153	1.2411	2.0851	59.66	<.0001
FirstOrigin	TUL	1	1.3122	0.1895	0.9408	1.6837	47.94	<.0001
FirstOrigin	TUS	1	1.5028	0.1880	1.1343	1.8713	63.88	<.0001
FirstOrigin	TVC	1	1.1105	0.2869	0.5482	1.6728	14.98	0.0001
FirstOrigin	TWF	1	1.4312	0.4819	0.4866	2.3757	8.82	0.0030
FirstOrigin	TXK	1	0.6563	0.2562	0.1541	1.1585	6.56	0.0104
FirstOrigin	TYR	1	1.2211	0.2262	0.7778	1.6643	29.15	<.0001
FirstOrigin	TYS	1	1.3346	0.1922	0.9578	1.7114	48.20	<.0001
FirstOrigin	UST	1	2.0576	0.7296	0.6276	3.4876	7.95	0.0048
FirstOrigin	VLD	1	1.2190	0.4185	0.3988	2.0393	8.49	0.0036
FirstOrigin	VPS	1	0.8425	0.2010	0.4486	1.2365	17.57	<.0001
FirstOrigin	WRG	1	1.2784	0.7296	-0.1516	2.7083	3.07	0.0797
FirstOrigin	XNA	1	0.7841	0.1954	0.4011	1.1671	16.10	<.0001
FirstOrigin	YAK	1	0.9199	0.6047	-0.2652	2.1050	2.31	0.1282
FirstOrigin	YUM	0	0.0000	0.0000	0.0000	0.0000	.	.
Scale		0	1.0000	0.0000	1.0000	1.0000		

**Note:** The scale parameter was held fixed.

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule**

**The UNIVARIATE Procedure**  
**Variable: EndSeq**

Moments			
<b>N</b>	51147	<b>Sum Weights</b>	51147
<b>Mean</b>	2.75603652	<b>Sum Observations</b>	140963
<b>Std Deviation</b>	1.13117161	<b>Variance</b>	1.27954921
<b>Skewness</b>	1.86820418	<b>Kurtosis</b>	3.92575095
<b>Uncorrected SS</b>	453943	<b>Corrected SS</b>	65443.8237
<b>Coeff Variation</b>	41.0434187	<b>Std Error Mean</b>	0.00500171

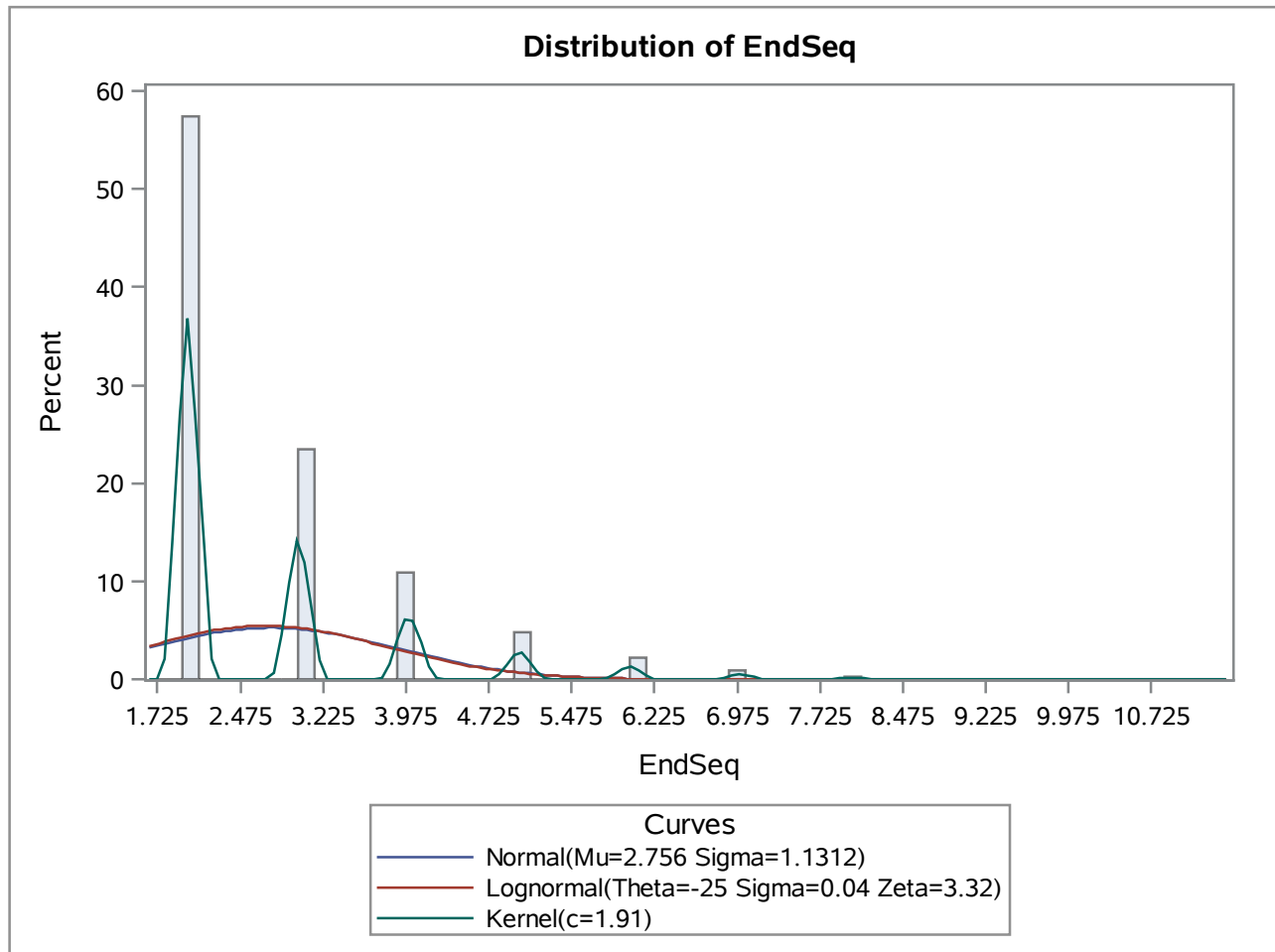
Basic Statistical Measures			
Location		Variability	
<b>Mean</b>	2.756037	<b>Std Deviation</b>	1.13117
<b>Median</b>	2.000000	<b>Variance</b>	1.27955
<b>Mode</b>	2.000000	<b>Range</b>	9.00000
		<b>Interquartile Range</b>	1.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
<b>Student's t</b>	<b>t</b>	551.019	<b>Pr &gt;  t </b>	<.0001
<b>Sign</b>	<b>M</b>	25573.5	<b>Pr &gt;=  M </b>	<.0001
<b>Signed Rank</b>	<b>S</b>	6.5402E8	<b>Pr &gt;=  S </b>	<.0001

Quantiles (Definition 5)	
Level	Quantile
<b>100% Max</b>	11
<b>99%</b>	7
<b>95%</b>	5
<b>90%</b>	4
<b>75% Q3</b>	3
<b>50% Median</b>	2
<b>25% Q1</b>	2
<b>10%</b>	2
<b>5%</b>	2
<b>1%</b>	2
<b>0% Min</b>	2

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule****The UNIVARIATE Procedure**  
**Variable: EndSeq**

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	51142	10	41750
2	51140	10	41908
2	51139	10	43343
2	51136	10	44172
2	51135	11	41931

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule****The UNIVARIATE Procedure**

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule**

**The UNIVARIATE Procedure**  
**Fitted Normal Distribution for EndSeq**

Parameters for Normal Distribution		
Parameter	Symbol	Estimate
Mean	Mu	2.756037
Std Dev	Sigma	1.131172

Goodness-of-Fit Tests for Normal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.32163	Pr > D	<0.010
Cramer-von Mises	W-Sq	1037.46471	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	5681.86763	Pr > A-Sq	<0.005

Quantiles for Normal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	2.00000	0.12454
5.0	2.00000	0.89542
10.0	2.00000	1.30638
25.0	2.00000	1.99307
50.0	2.00000	2.75604
75.0	3.00000	3.51900
90.0	4.00000	4.20569
95.0	5.00000	4.61665
99.0	7.00000	5.38754

## ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule

**The UNIVARIATE Procedure**  
**Fitted Lognormal Distribution for EndSeq**

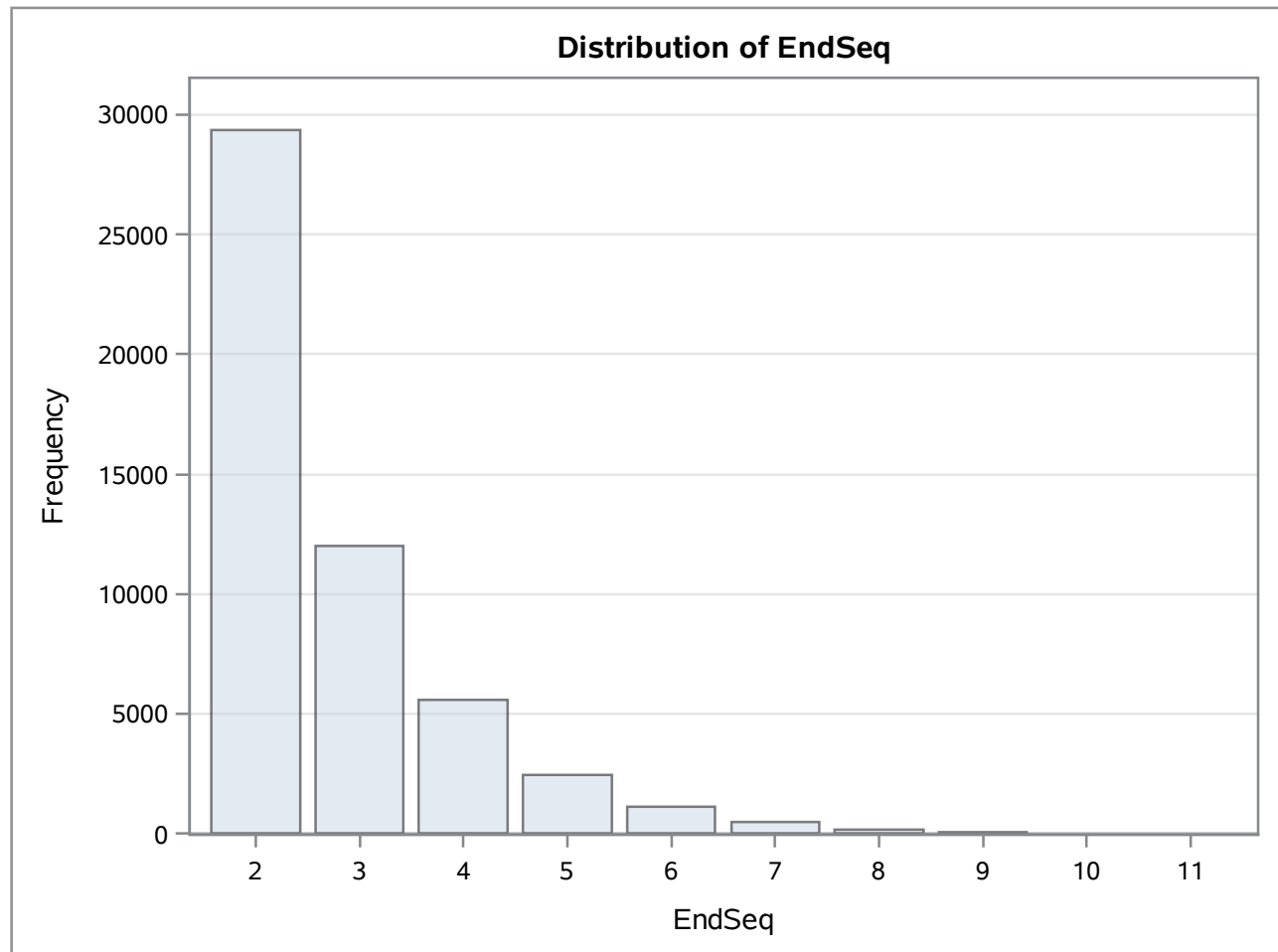
Parameters for Lognormal Distribution		
Parameter	Symbol	Estimate
Threshold	Theta	-25
Scale	Zeta	3.322661
Shape	Sigma	0.03936
Mean		2.755539
Std Dev		1.092886

Goodness-of-Fit Tests for Lognormal Distribution				
Test	Statistic		p Value	
Kolmogorov-Smirnov	D	0.32580	Pr > D	<0.010
Cramer-von Mises	W-Sq	1022.06391	Pr > W-Sq	<0.005
Anderson-Darling	A-Sq	5624.62550	Pr > A-Sq	<0.005

Quantiles for Lognormal Distribution		
Percent	Quantile	
	Observed	Estimated
1.0	2.00000	0.30736
5.0	2.00000	0.99539
10.0	2.00000	1.36978
25.0	2.00000	2.00745
50.0	2.00000	2.73405
75.0	3.00000	3.48019
90.0	4.00000	4.16889
95.0	5.00000	4.58900
99.0	7.00000	5.39342

**ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule****The FREQ Procedure**

EndSeq	Frequency	Percent	Cumulative Frequency	Cumulative Percent
2	29337	57.36	29337	57.36
3	11983	23.43	41320	80.79
4	5578	10.91	46898	91.69
5	2443	4.78	49341	96.47
6	1115	2.18	50456	98.65
7	465	0.91	50921	99.56
8	173	0.34	51094	99.90
9	47	0.09	51141	99.99
10	5	0.01	51146	100.00
11	1	0.00	51147	100.00





## ssric - 678751252 - EasterEgg-How Long To Catch Up To Schedule

### The MEANS Procedure

Analysis Variable : EndSeq					
Minimum	Maximum	Mean	Std Dev	Skewness	Kurtosis
2.0000000	11.0000000	2.7560365	1.1311716	1.8682042	3.9257509

## Explanation of The Results

From the Poisson regression we can infer that the following variables have an impact on EndSeq based on their statistical significance

**1. SequenceDistance:** This has a negative impact on EndSeq. Hence if the cumulative distance travelled by a plane in a sequence is longer, it will take fewer flights to get back on schedule. One way to interpret this is that over a long distance, the pilot is able to catch up on the delay by speeding up. I have experienced this on my 18-hour international flights from India to Chicago!

**2. LateAircraftDelay :** This has a positive correlation with EndSeq. This means that if the first flight in a sequence is delayed due to LateAircraft delay, the plane (tailNum) takes longer to catch up. Based on the BTS website, LateAircraft Delay is defined as 'A previous flight with same aircraft arrived late, causing the present flight to depart late'. It follows that if the previous flight for the first flight in the sequence is delayed, the delay is likely to cascade through the sequence making it difficult for the TailNum to return to on-time status

**3. Origin of first flight :** The regression model analysed 291 origin airports for the first flight in a sequence. The ones that are statistically significant, all have positive intercepts and correspond to busy airports. Intuitively, it would seem that a busy origin airport would result in a cascading delay through the sequence. However, strangely enough, there are two exceptions. Two airports - OGG and ACT - have negative intercepts, meaning if the first flight in a sequence flew out of OGG in Maui or ACT in Waco, TX it would take lesser flights for the TailNum to get back to on-time status

Based on the summary statistics of EndSeq we observe that it varies from 2 to 11 with 57.36% of the TailNums taking 2 flights to return to on-time status. The mean is 2.7560365. Five tailnums take 10 flights to return to on-time status, and there is one sequence which took 11 flights. Another factor to consider is the change of day. Since we start a new sequence for each new day, it could be possible that a TailNum that flies overnight actually takes more than 2 flights to recover from delay but we forcefully ended it at 2