

# **USA Bird Migration Tables (Synthetic Dataset)**

This PDF contains synthetic, float-valued tabular data intended for data analysis demos and model training workflows. The values are simulated and are not real bird migration observations; do not use them for scientific, ecological, or policy conclusions. Tables are rendered as text (not images).

**Table 1**

Part 1 of 4

<b>Row</b>	<b>Distance_miles</b>	<b>AvgSpeed_mph</b>	<b>Stopovers</b>	<b>StartLat_deg</b>	<b>EndLat_deg</b>
1	1436.35	30.14	18.15	37.12	41.27
2	2876.79	25.64	16.37	45.16	54.80
3	2329.98	52.54	6.87	30.29	45.61
4	1996.65	48.28	12.35	32.32	45.56
5	890.05	42.17	10.30	30.92	52.19
6	889.99	50.50	9.88	30.81	54.21
7	645.21	48.13	24.46	47.11	54.79
8	2665.44	26.53	12.86	44.07	51.30
9	2002.79	51.24	22.84	39.48	45.64
10	2270.18	38.88	17.62	31.96	41.25
11	551.46	48.26	20.90	39.83	51.66
12	2924.77	51.36	15.05	39.47	48.38
13	2581.11	31.13	16.54	33.46	46.36
14	1030.85	23.85	14.85	38.68	53.60
15	954.56	27.98	8.90	37.97	41.67
16	958.51	34.95	19.45	42.32	47.39
17	1260.61	48.63	10.62	42.70	40.17
18	1811.89	50.13	5.49	30.91	47.03
19	1579.86	20.24	17.91	37.49	40.84
20	1228.07	37.88	8.54	42.52	41.78
21	2029.63	34.61	23.81	40.06	41.76
22	848.73	27.77	24.08	47.13	49.74
23	1230.36	24.20	23.30	43.17	51.19
24	1415.90	31.82	12.40	33.26	48.75
25	1640.17	53.00	5.31	31.41	54.43
26	2462.94	31.31	23.57	42.85	45.62

Row	Distance_miles	AvgSpeed_mph	Stopovers	StartLat_deg	EndLat_deg
27	999.18	38.16	13.56	30.53	44.29
28	1785.59	44.61	24.33	41.72	53.03
29	1981.04	32.73	24.27	48.80	43.35
30	616.13	54.01	22.06	41.51	54.45

**Table 1**

Part 2 of 4

Row	Distance_miles	AvgSpeed_mph	Stopovers	StartLat_deg	EndLat_deg
31	2018.86	53.69	10.89	37.76	40.18
32	926.31	28.81	12.70	42.87	54.55
33	662.63	37.40	22.02	39.17	40.65
34	2872.21	30.53	11.34	40.91	53.37
35	2914.08	29.97	8.39	48.83	47.92
36	2520.99	21.29	16.14	37.72	54.89
37	1261.53	41.33	23.72	49.22	41.11
38	744.18	37.59	18.92	48.11	48.31
39	2210.58	21.80	16.40	33.92	54.54
40	1600.38	29.75	6.94	31.39	47.85
41	805.10	51.79	17.30	32.02	49.44
42	1737.94	28.38	24.80	30.36	50.44
43	585.97	25.07	7.80	31.89	46.82
44	2773.30	37.13	15.37	43.66	49.41
45	1146.95	54.50	22.55	31.42	48.76
46	2156.31	28.47	19.82	36.38	53.52
47	1279.28	43.52	18.94	46.90	40.68
48	1800.17	46.66	19.05	30.47	44.21
49	1866.78	28.32	12.19	46.29	54.26
50	962.14	45.49	10.87	35.64	53.35
51	2923.96	32.87	21.19	32.36	46.83
52	2437.83	42.13	21.20	43.93	49.30
53	2848.75	42.17	22.34	42.58	44.16
54	2737.07	38.75	23.26	47.55	42.82
55	1994.75	23.16	15.23	44.70	46.96
56	2804.69	49.24	15.03	46.07	45.30

Row	Distance_miles	AvgSpeed_mph	Stopovers	StartLat_deg	EndLat_deg
57	721.23	31.23	20.97	35.64	48.75
58	989.96	26.53	18.00	33.55	41.17
59	613.07	21.43	19.04	45.01	54.62
60	1313.33	40.68	20.92	46.14	54.79

**Table 1**

Part 3 of 4

<b>Row</b>	<b>Distance_miles</b>	<b>AvgSpeed_mph</b>	<b>Stopovers</b>	<b>StartLat_deg</b>	<b>EndLat_deg</b>
61	1471.69	43.71	22.80	49.81	50.47
62	1178.37	20.58	11.76	38.25	48.04
63	2571.84	37.92	12.51	37.44	44.64
64	1391.88	27.93	6.88	45.53	52.21
65	1202.34	42.58	16.57	36.82	50.27
66	1856.74	26.10	5.72	48.62	42.44
67	852.31	44.18	14.31	47.17	53.66
68	2505.49	33.54	15.85	38.58	52.34
69	686.38	52.79	10.73	45.02	54.25
70	2967.22	24.81	16.82	45.09	50.89
71	2430.61	31.94	5.61	32.06	49.20
72	996.79	23.97	5.75	48.05	46.27
73	513.81	52.36	21.45	40.11	53.99
74	2538.65	50.71	12.20	46.53	52.99
75	2267.14	29.03	7.54	36.40	40.68
76	2322.52	43.10	15.44	47.91	40.40
77	2428.18	48.60	20.40	37.78	45.65
78	685.11	39.43	9.32	30.22	52.16
79	1396.16	38.54	17.46	48.11	54.81
80	789.67	28.46	6.71	31.83	42.26
81	2657.76	23.26	6.03	36.39	48.91
82	2058.25	51.40	15.63	49.00	45.71
83	1327.25	51.51	15.81	49.01	54.55
84	658.90	42.16	17.75	41.47	52.63
85	1277.46	31.87	19.52	42.64	52.57
86	1312.96	32.22	24.52	38.97	47.03

Row	Distance_miles	AvgSpeed_mph	Stopovers	StartLat_deg	EndLat_deg
87	2324.02	45.41	15.33	35.86	46.22
88	2093.89	51.40	11.46	36.57	44.10
89	2718.03	51.05	20.90	43.45	40.85
90	1680.54	47.30	10.42	45.05	52.97

**Table 1**

Part 4 of 4

<b>Row</b>	<b>Distance_miles</b>	<b>AvgSpeed_mph</b>	<b>Stopovers</b>	<b>StartLat_deg</b>	<b>EndLat_deg</b>
91	798.99	42.47	13.78	45.83	52.19
92	2283.11	22.94	6.57	45.79	55.00
93	2401.96	25.66	5.51	31.82	54.95
94	1903.19	51.45	24.25	39.89	48.33
95	2427.42	41.23	21.72	31.15	51.53
96	1734.49	20.32	18.92	40.99	54.17
97	1806.83	23.55	13.18	38.83	52.74
98	1568.85	43.22	8.47	47.75	43.71
99	563.55	20.18	8.13	37.02	46.76
100	769.73	25.63	10.00	32.34	41.94
101	578.57	39.21	15.98	32.86	54.31
102	2091.03	44.22	19.29	45.23	49.09
103	1285.89	42.82	18.20	42.36	43.43
104	1771.43	27.85	10.60	32.02	50.08
105	2768.92	44.93	24.10	31.68	49.27
106	1123.23	28.30	19.76	44.02	45.37
107	1525.96	31.39	16.09	31.46	41.70
108	2388.88	46.13	17.23	46.44	50.07
109	1072.00	42.74	13.39	44.12	47.80
110	692.45	49.72	9.95	31.63	51.58

**Table 2**

Part 1 of 4

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
1	1672.38	29.40	310.63	39.62	40.99
2	2452.63	49.57	1046.45	48.44	38.89
3	1746.98	37.38	327.49	35.39	30.44
4	1768.20	25.59	597.29	37.08	36.80
5	2510.14	21.26	997.30	51.00	32.22
6	1398.18	22.89	349.92	38.57	26.83
7	764.94	25.87	429.25	48.05	43.35
8	517.64	23.14	922.25	39.76	27.74
9	2224.57	23.97	920.04	36.99	44.00
10	1907.73	27.12	841.15	39.86	33.92
11	2104.59	23.55	893.95	49.45	28.70
12	950.47	46.70	742.72	52.11	35.84
13	770.47	20.57	451.80	51.60	42.46
14	484.18	34.78	545.70	42.94	39.64
15	1273.88	31.13	381.60	48.36	41.13
16	1836.31	49.44	1108.45	39.10	38.18
17	1371.77	21.59	783.39	40.86	38.85
18	1478.07	30.73	600.85	52.93	41.98
19	2574.77	49.02	662.01	35.26	29.99
20	1268.40	45.70	1147.28	36.71	34.79
21	1657.88	44.15	353.35	39.16	29.42
22	2291.58	26.25	786.23	35.53	44.75
23	1381.88	23.47	705.89	38.63	43.88
24	1911.90	39.40	811.45	46.66	25.79
25	2476.55	47.74	218.11	43.43	39.11
26	2681.37	35.82	1072.12	52.85	43.50

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
27	795.62	36.29	1132.12	51.35	28.61
28	2627.48	26.96	765.13	41.84	36.36
29	1606.47	42.62	896.65	40.19	43.31
30	1056.87	23.99	1122.50	42.59	25.68

**Table 2**

Part 2 of 4

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
31	1528.97	28.36	907.24	46.81	38.95
32	2753.08	31.61	352.54	40.36	30.95
33	1607.65	34.24	776.29	47.48	43.49
34	1222.57	25.76	806.72	43.19	44.42
35	1938.49	21.67	624.13	46.04	43.89
36	1014.34	37.54	936.44	43.72	34.48
37	628.28	27.24	1134.37	40.89	42.24
38	752.87	36.60	1125.57	53.97	41.89
39	750.91	22.94	650.84	50.27	31.38
40	806.97	33.40	313.24	37.80	41.58
41	776.24	35.04	1184.84	52.37	25.74
42	1956.06	19.66	1038.90	44.75	36.93
43	877.42	28.77	324.66	52.89	29.60
44	1262.32	22.30	1120.84	51.00	27.41
45	2557.45	20.03	1069.90	43.50	26.54
46	1563.81	49.68	718.84	35.45	38.93
47	2018.76	28.32	791.28	40.37	31.80
48	854.95	43.92	599.00	45.83	39.50
49	901.88	26.15	254.76	47.67	26.31
50	546.04	39.81	535.20	40.16	31.31
51	847.00	42.33	1002.85	37.79	35.79
52	1104.69	37.06	204.63	51.70	40.81
53	865.97	33.09	533.50	54.69	31.38
54	658.45	31.18	598.17	45.51	37.52
55	733.49	29.16	737.40	38.43	42.72
56	1532.83	47.74	1119.86	40.45	37.32

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
57	934.88	44.58	546.35	35.37	29.66
58	1306.03	48.88	546.95	53.29	25.49
59	1633.03	21.98	937.50	37.36	42.40
60	2072.43	41.39	652.22	46.53	25.43

**Table 2**

Part 3 of 4

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
61	542.38	48.03	424.60	40.48	42.49
62	2328.61	23.80	652.44	46.08	35.58
63	1925.57	20.13	340.86	48.03	43.78
64	642.13	41.72	376.39	51.59	40.98
65	2502.91	36.38	698.37	39.13	44.96
66	2614.05	44.94	618.93	35.22	32.01
67	593.53	22.47	1114.85	37.74	40.34
68	1100.66	43.45	562.39	53.00	33.04
69	2344.57	24.45	780.59	52.48	34.60
70	2208.41	23.24	832.26	46.95	37.55
71	883.62	23.26	213.09	47.01	42.47
72	941.97	44.07	863.54	48.30	44.68
73	1320.61	39.29	378.04	38.51	40.37
74	1588.63	34.74	1161.07	53.29	33.36
75	1902.90	29.48	348.66	43.38	33.43
76	1316.95	46.07	614.62	42.66	39.75
77	1536.96	30.56	285.35	45.38	29.78
78	2206.56	44.13	1196.87	35.94	27.21
79	536.21	32.05	702.20	38.33	32.09
80	1043.23	30.06	795.39	49.76	30.74
81	2126.37	32.81	267.08	36.66	30.93
82	2553.74	27.64	949.96	47.06	29.67
83	1652.44	41.92	409.91	39.91	25.84
84	1700.47	34.09	1098.05	42.79	25.36
85	701.85	25.43	405.14	40.77	44.75
86	1501.42	46.79	390.69	42.11	33.56

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
87	1701.65	30.28	236.55	49.38	32.69
88	1019.81	35.39	672.07	40.94	38.59
89	1082.72	47.01	764.84	46.33	29.37
90	1336.62	37.98	265.71	44.52	44.00

**Table 2**

Part 4 of 4

Row	Distance_miles	AvgSpeed_mph	Energy_kcal	StartLat_deg	EndLat_deg
91	497.17	21.74	975.53	48.27	40.73
92	1206.89	48.07	653.29	53.74	26.79
93	946.90	38.09	724.39	49.65	33.35
94	1219.62	28.72	640.76	39.30	42.58
95	731.44	22.46	600.76	35.62	43.89
96	2542.74	43.41	759.64	40.25	34.35
97	1844.94	37.84	355.24	46.90	37.27
98	2045.89	35.07	381.93	36.03	28.34
99	2304.55	46.60	1061.79	44.93	44.82
100	1621.34	43.24	1146.12	46.94	29.63
101	654.26	22.85	573.31	41.68	43.85
102	1712.20	27.98	470.74	50.42	37.99
103	1829.08	25.95	844.00	37.13	37.15
104	2201.78	41.81	608.73	36.50	35.25
105	1464.40	19.07	225.39	49.56	29.61
106	749.81	36.24	356.15	44.91	28.53
107	1116.87	42.40	915.97	48.77	29.41
108	1303.24	46.06	858.92	43.70	28.73
109	1967.91	28.95	227.10	39.93	40.59
110	1791.33	44.28	421.97	51.38	32.00

**Table 3**

Part 1 of 4

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
1	0.674	15.655	0.693	75.916	0.938
2	3.407	16.285	0.483	78.046	0.396
3	3.151	9.091	2.192	77.110	0.811
4	3.283	24.870	0.626	83.340	0.531
5	3.485	22.342	2.442	64.888	1.167
6	1.022	10.519	0.909	61.049	0.735
7	1.689	7.060	0.537	70.778	1.025
8	2.775	22.012	1.995	84.664	0.795
9	2.588	21.363	1.681	67.065	0.339
10	0.962	11.831	1.296	83.570	0.870
11	2.947	28.772	1.433	93.947	1.156
12	1.173	8.776	1.826	63.287	0.841
13	1.171	15.808	0.648	83.541	1.037
14	2.111	28.590	2.491	75.531	1.096
15	2.279	15.493	2.440	90.385	0.505
16	2.240	20.963	1.661	66.200	0.491
17	0.774	14.940	0.579	84.242	0.850
18	3.132	11.855	1.733	89.334	0.670
19	1.297	29.599	0.273	93.061	1.056
20	0.889	15.233	0.174	83.914	1.110
21	3.166	27.352	0.718	77.401	0.618
22	3.367	10.749	1.210	81.625	0.513
23	3.086	10.328	2.184	90.412	1.002
24	2.929	5.778	1.845	79.971	0.547
25	2.466	21.292	1.882	61.064	1.040
26	2.153	14.213	1.121	92.583	0.681

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
27	0.761	26.609	0.930	84.133	0.901
28	1.725	16.830	0.990	83.678	0.386
29	1.618	29.205	2.470	67.549	0.861
30	1.279	9.638	0.196	83.061	0.707

**Table 3**

Part 2 of 4

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
31	2.670	26.716	2.181	73.785	0.828
32	1.988	24.415	1.489	82.793	0.451
33	0.743	24.273	1.153	63.731	0.963
34	1.161	26.120	1.841	83.025	1.077
35	2.550	24.026	1.268	94.979	0.495
36	0.728	20.656	2.196	61.687	0.386
37	3.054	8.281	2.262	94.201	0.321
38	1.985	5.813	1.112	74.242	0.878
39	1.942	28.021	0.764	90.476	0.846
40	2.277	20.416	1.522	87.383	0.792
41	2.974	24.913	2.290	79.846	0.509
42	1.543	17.038	0.606	85.846	0.652
43	2.534	7.933	1.595	90.748	0.835
44	2.197	8.130	1.616	74.145	0.747
45	1.301	22.139	1.859	71.446	1.189
46	3.136	15.758	0.416	83.366	0.423
47	2.892	10.013	1.818	88.275	0.926
48	2.475	17.290	2.282	86.680	0.664
49	3.052	6.605	0.531	87.923	0.685
50	3.102	19.549	0.670	75.245	0.946
51	2.625	11.725	2.431	88.624	0.923
52	3.011	24.939	0.534	64.207	1.192
53	2.592	12.759	2.151	79.057	0.416
54	2.540	16.381	1.281	60.202	0.394
55	2.356	5.291	0.693	71.361	0.952
56	2.758	6.811	2.190	72.826	0.821

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
57	0.976	14.812	1.169	73.866	0.547
58	3.143	16.998	1.336	84.341	0.371
59	3.116	20.001	0.962	73.600	0.377
60	0.588	12.292	1.523	75.704	1.105

**Table 3**

Part 3 of 4

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
61	2.977	22.375	0.492	68.314	0.473
62	0.887	26.503	1.039	73.064	0.591
63	1.505	24.496	2.427	67.954	0.504
64	2.731	5.990	0.720	62.562	0.619
65	0.982	17.013	1.676	81.121	0.362
66	2.954	7.623	0.880	83.387	0.767
67	2.996	11.051	1.956	81.682	0.361
68	2.022	29.667	0.414	76.222	1.020
69	0.519	8.562	2.428	73.293	0.510
70	1.361	17.472	1.189	90.217	0.786
71	2.351	20.454	0.667	78.168	1.092
72	3.444	22.562	0.276	76.771	0.886
73	2.395	18.991	0.507	60.897	0.780
74	1.279	5.244	1.347	71.944	0.592
75	2.402	13.162	0.909	73.307	0.600
76	2.120	17.943	2.089	73.959	0.903
77	2.840	7.197	1.134	80.306	1.195
78	0.821	13.766	0.697	78.676	0.896
79	2.783	5.830	1.581	81.277	0.802
80	2.124	6.964	1.796	86.771	0.958
81	3.389	14.923	0.501	88.455	0.719
82	1.526	8.318	0.502	85.134	0.354
83	2.398	19.189	0.188	93.443	0.806
84	3.296	22.237	1.867	60.638	1.162
85	0.808	25.015	1.693	66.852	0.458
86	3.312	10.004	1.239	60.265	0.921

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
87	2.564	9.187	2.126	82.662	0.481
88	0.704	7.614	2.034	91.431	0.782
89	1.403	20.911	1.505	68.522	0.387
90	2.625	22.662	2.184	92.446	0.705

**Table 3**

Part 4 of 4

Row	RouteDeviation_idx	WindAssist_mph	WeatherDelay_days	HabitatIndex	PredationRisk_idx
91	0.702	5.790	0.594	62.109	0.981
92	2.247	28.405	0.369	92.705	0.613
93	1.538	6.299	0.747	72.307	0.898
94	2.363	18.532	0.237	63.550	1.016
95	0.637	22.727	1.375	77.006	1.134
96	3.115	26.774	2.348	68.987	0.511
97	3.420	22.852	0.194	69.971	0.659
98	3.407	25.043	0.393	70.755	0.437
99	2.749	13.486	1.185	88.106	1.193
100	0.890	25.371	2.341	78.871	1.134
101	2.775	7.003	0.859	70.896	0.786
102	0.574	27.370	1.317	81.362	1.058
103	0.566	18.690	0.200	85.065	0.769
104	1.471	25.432	0.456	69.542	0.861
105	1.966	16.308	2.468	74.474	0.380
106	2.811	21.089	2.416	64.266	0.980
107	2.550	18.160	0.112	66.340	0.415
108	1.838	23.290	2.384	83.839	1.043
109	1.321	7.041	1.634	66.350	1.004
110	3.491	6.509	2.183	78.381	0.938