BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Takeoff 4407 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps UP Power Max
V_R 76 KIAS $V_{50'}$ 83 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1312	1378	1443	1542	1837	2230	1391
	15 m / 50 ft	2394	2493	2591	2854	3444	4362	2545
1000 ft	Ground Roll	1378	1443	1542	1673	2001	2394	1456
	15 m / 50 ft	2493	2624	2755	3050	3772	4756	2637
2000 ft	Ground Roll	1443	1509	1640	1771	2165	2591	1515
	15 m / 50 ft	2624	2755	2919	3280	4133	5150	2742
3000 ft	Ground Roll	1509	1607	1706	1935	2329	2821	1591
	15 m / 50 ft	2755	2886	3083	3542	4461	5609	2850
4000 ft	Ground Roll	1607	1706	1837	2099	2558	3050	1656
	15 m / 50 ft	2886	3018	3280	3838	4887	6068	2972
5000 ft	Ground Roll	1706	1804	1968	2263	2755	****	1742
	15 m / 50 ft	3018	3214	3510	4198	5314	****	3096
6000 ft	Ground Roll	1804	1902	2099	2493	3018	****	1824
	15 m / 50 ft	3182	3378	3739	4592	5773	****	3234
7000 ft	Ground Roll	1902	2034	2230	2690	3247	****	1909
	15 m / 50 ft	3378	3608	4002	5018	6265	****	3375
8000 ft	Ground Roll	2034	2165	2394	2952	3542	****	2004
	15 m / 50 ft	3575	3838	4330	5445	6822	****	3536
9000 ft	Ground Roll	2165	2329	2624	3214	3870	****	2106
	15 m / 50 ft	3772	4067	4756	6035	7478	****	3700
10,000 ft	Ground Roll	2296	2526	2952	3608	****	****	2217
	15 m / 50 ft	4034	4461	5379	6921	****	****	3877

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Takeoff 4189 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps UP Power Max
V_R 76 KIAS $V_{50'}$ 83 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1214	1279	1345	1476	1706	2099	1312
	15 m / 50 ft	2198	2329	2394	2624	3149	3969	2348
1000 ft	Ground Roll	1279	1345	1443	1574	1870	2263	1368
	15 m / 50 ft	2329	2427	2558	2821	3477	4297	2437
2000 ft	Ground Roll	1378	1443	1542	1673	2034	2460	1427
	15 m / 50 ft	2427	2526	2690	3018	3772	4658	2535
3000 ft	Ground Roll	1443	1509	1607	1804	2198	2657	1496
	15 m / 50 ft	2526	2657	2854	3247	4100	5084	2634
4000 ft	Ground Roll	1509	1607	1738	1968	2394	2886	1565
	15 m / 50 ft	2657	2788	3018	3542	4428	5478	2749
5000 ft	Ground Roll	1607	1706	1837	2132	2591	***	1640
	15 m / 50 ft	2788	2952	3247	3870	4822	***	2867
6000 ft	Ground Roll	1706	1804	1968	2329	2821	***	1715
	15 m / 50 ft	2952	3116	3444	4198	5248	***	2985
7000 ft	Ground Roll	1804	1935	2099	2558	3050	***	1801
	15 m / 50 ft	3116	3313	3706	4592	5707	***	3119
8000 ft	Ground Roll	1902	2034	2263	2755	3313	***	1893
	15 m / 50 ft	3280	3542	3969	4986	6166	***	3264
9000 ft	Ground Roll	2034	2198	2493	3018	3641	***	1988
	15 m / 50 ft	3477	3772	4362	5510	6855	***	3411
10,000 ft	Ground Roll	2165	2362	2755	3378	***	***	2093
	15 m / 50 ft	3739	4100	4920	6265	***	***	3588

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Takeoff 3748 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps UP Power Max
V_R 76 KIAS $V_{50'}$ 83 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [°C] / [°F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1082	1148	1181	1279	1509	1837	1148
	15 m / 50 ft	1902	1968	2066	2230	2657	3313	2011
1000 ft	Ground Roll	1148	1181	1279	1378	1640	1968	1204
	15 m / 50 ft	1961	2066	2198	2394	2919	3608	2076
2000 ft	Ground Roll	1214	1279	1345	1476	1771	2132	1260
	15 m / 50 ft	2066	2165	2296	2558	3182	3903	2168
3000 ft	Ground Roll	1279	1345	1443	1574	1935	2329	1315
	15 m / 50 ft	2165	2296	2427	2755	3444	4231	2260
4000 ft	Ground Roll	1345	1410	1509	1738	2099	2526	1378
	15 m / 50 ft	2296	2394	2591	2985	3739	4559	2352
5000 ft	Ground Roll	1410	1509	1607	1902	2296	***	1440
	15 m / 50 ft	2394	2526	2755	3280	4067	***	2453
6000 ft	Ground Roll	1509	1607	1738	2066	2493	***	1512
	15 m / 50 ft	2526	2690	2952	3575	4395	***	2555
7000 ft	Ground Roll	1574	1706	1837	2230	2690	***	1584
	15 m / 50 ft	2657	2854	3149	3870	4756	***	2673
8000 ft	Ground Roll	1706	1804	2001	2427	2919	***	1663
	15 m / 50 ft	2821	3018	3378	4231	5150	***	2798
9000 ft	Ground Roll	1804	1935	2198	2657	3182	***	1745
	15 m / 50 ft	2985	3214	3706	4625	5707	***	2922
10,000 ft	Ground Roll	1935	2099	2427	2985	***	***	1837
	15 m / 50 ft	3214	3510	4166	5248	***	***	3067

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Short Field Takeoff 4407 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP **Power Max**
V_R 74 KIAS **$V_{50'}$ 74 KIAS**

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1148	1214	1279	1378	1640	2001	1230
	15 m / 50 ft	1968	2099	2198	2394	2919	3674	2129
1000 ft	Ground Roll	1214	1279	1345	1476	1771	2165	1286
	15 m / 50 ft	2099	2198	2329	2591	3214	4034	2217
2000 ft	Ground Roll	1279	1345	1443	1607	1935	2362	1348
	15 m / 50 ft	2198	2329	2493	2788	3542	4461	2319
3000 ft	Ground Roll	1345	1443	1542	1738	2132	2591	1410
	15 m / 50 ft	2329	2460	2657	3050	3870	4920	2424
4000 ft	Ground Roll	1443	1509	1640	1902	2329	2821	1486
	15 m / 50 ft	2460	2591	2854	3346	4264	5379	2545
5000 ft	Ground Roll	1542	1607	1771	2066	2558	***	1565
	15 m / 50 ft	2591	2755	3050	3706	4723	***	2663
6000 ft	Ground Roll	1640	1738	1902	2263	2788	***	1640
	15 m / 50 ft	2755	2952	3280	4067	5215	***	2801
7000 ft	Ground Roll	1738	1837	2034	2493	3050	***	1725
	15 m / 50 ft	2952	3149	3542	4526	5740	***	2949
8000 ft	Ground Roll	1837	1968	2198	2722	3313	***	1824
	15 m / 50 ft	3116	3378	3870	4986	6363	***	3103
9000 ft	Ground Roll	1968	2132	2427	3018	3674	***	1919
	15 m / 50 ft	3346	3641	4330	5609	7216	***	3277
10,000 ft	Ground Roll	2132	2329	2755	3411	***	***	2027
	15 m / 50 ft	3608	4034	4986	6593	***	***	3460

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Short Field Takeoff 4189 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP **Power Max**
V_R 71 KIAS **$V_{50'}$ 71 KIAS**

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [°C] / [°F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1082	1148	1214	1312	1542	1870	1161
	15 m / 50 ft	1837	1935	2034	2230	2690	3378	1978
1000 ft	Ground Roll	1148	1214	1279	1410	1673	2066	1217
	15 m / 50 ft	1935	2034	2165	2394	2952	3706	2066
2000 ft	Ground Roll	1214	1279	1378	1509	1837	2230	1273
	15 m / 50 ft	2034	2165	2296	2591	3247	4067	2155
3000 ft	Ground Roll	1279	1345	1443	1640	2001	2427	1335
	15 m / 50 ft	2165	2263	2460	2821	3575	4461	2250
4000 ft	Ground Roll	1345	1443	1542	1771	2198	2657	1401
	15 m / 50 ft	2296	2427	2624	3083	3903	4887	2355
5000 ft	Ground Roll	1443	1542	1673	1968	2394	***	1469
	15 m / 50 ft	2427	2558	2821	3411	4297	***	2476
6000 ft	Ground Roll	1542	1640	1771	2132	2624	***	1548
	15 m / 50 ft	2558	2755	3050	3739	4723	***	2601
7000 ft	Ground Roll	1640	1738	1935	2362	2854	***	1627
	15 m / 50 ft	2722	2919	3280	4133	5215	***	2732
8000 ft	Ground Roll	1738	1870	2099	2558	3116	***	1719
	15 m / 50 ft	2919	3149	3575	4559	5740	***	2877
9000 ft	Ground Roll	1870	2001	2296	2821	3444	***	1807
	15 m / 50 ft	3116	3378	3969	5084	6494	***	3031
10,000 ft	Ground Roll	2001	2198	2591	3214	***	***	1912
	15 m / 50 ft	3346	3739	4526	5937	***	***	3205

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Short Field Takeoff 3748 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP Power Max
V_R 71 KIAS $V_{50'}$ 77 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% upslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	951	1017	1050	1148	1345	1640	1020
	15 m / 50 ft	1607	1673	1771	1935	2296	2854	1709
1000 ft	Ground Roll	1017	1050	1115	1246	1476	1804	1069
	15 m / 50 ft	1673	1771	1870	2066	2526	3116	1784
2000 ft	Ground Roll	1082	1148	1214	1345	1607	1968	1122
	15 m / 50 ft	1771	1870	2001	2230	2755	3411	1860
3000 ft	Ground Roll	1148	1181	1279	1443	1771	2132	1174
	15 m / 50 ft	1870	1968	2132	2394	3018	3739	1942
4000 ft	Ground Roll	1214	1279	1378	1574	1935	2329	1233
	15 m / 50 ft	1968	2099	2263	2657	3313	4100	2040
5000 ft	Ground Roll	1279	1345	1476	1706	2099	***	1299
	15 m / 50 ft	2099	2230	2427	2886	3608	***	2135
6000 ft	Ground Roll	1345	1443	1574	1902	2296	***	1364
	15 m / 50 ft	2230	2362	2624	3182	3969	***	2244
7000 ft	Ground Roll	1443	1542	1706	2066	2526	***	1433
	15 m / 50 ft	2362	2526	2821	3510	4362	***	2358
8000 ft	Ground Roll	1542	1640	1837	2263	2755	***	1512
	15 m / 50 ft	2493	2690	3050	3838	4789	***	2476
9000 ft	Ground Roll	1640	1771	2034	2493	3050	***	1597
	15 m / 50 ft	2690	2886	3378	4264	5346	***	2614
10,000 ft	Ground Roll	1771	1935	2263	2821	***	***	1683
	15 m / 50 ft	2886	3182	3838	4920	***	***	2752

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Landing 4407 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps LDG Power IDLE
V_{Ref} 86 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% downslope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1214	1246	1312	1345	1443	1640	1269
	15 m / 50 ft	2034	2099	2165	2230	2394	2690	2122
1000 ft	Ground Roll	1312	1345	1378	1542	1738	1309	1305
	15 m / 50 ft	2099	2165	2230	2296	2526	2821	2171
2000 ft	Ground Roll	1312	1345	1410	1443	1607	1804	1348
	15 m / 50 ft	2165	2230	2296	2362	2657	2952	2230
3000 ft	Ground Roll	1345	1410	1443	1509	1706	1902	1384
	15 m / 50 ft	2230	2296	2362	2460	2755	3083	2286
4000 ft	Ground Roll	1410	1443	1509	1607	1804	2001	1427
	15 m / 50 ft	2296	2362	2460	2591	2919	3247	2345
5000 ft	Ground Roll	1443	1509	1574	1673	1902	***	1473
	15 m / 50 ft	2394	2460	2526	2722	3050	***	2408
6000 ft	Ground Roll	1509	1574	1607	1771	2001	***	1512
	15 m / 50 ft	2460	2526	2624	2854	3214	***	2470
7000 ft	Ground Roll	1574	1640	1706	1902	2132	***	1571
	15 m / 50 ft	2558	2657	2722	3050	3378	***	2558
8000 ft	Ground Roll	1673	1738	1804	2066	2296	***	1663
	15 m / 50 ft	2690	2788	2886	3247	3641	***	2683
9000 ft	Ground Roll	1804	1870	2001	2263	2526	***	1778
	15 m / 50 ft	2854	2952	3116	3510	3936	***	2827
10,000 ft	Ground Roll	1968	2034	2198	2460	***	***	1916
	15 m / 50 ft	3050	3149	3411	3805	***	***	2995

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Landing 4189 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps LDG Power IDLE
V_{Ref} 86 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [°C] / [°F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1181	1214	1246	1279	1410	1574	1220
	15 m / 50 ft	1968	2034	2066	2132	2296	2558	2034
1000 ft	Ground Roll	1214	1246	1279	1345	1476	1640	1250
	15 m / 50 ft	2034	2066	2132	2198	2427	2690	2083
2000 ft	Ground Roll	1246	1279	1345	1378	1542	1738	1286
	15 m / 50 ft	2066	2132	2198	2263	2526	2821	2139
3000 ft	Ground Roll	1312	1345	1378	1443	1640	1837	1328
	15 m / 50 ft	2132	2198	2263	2362	2657	2985	2191
4000 ft	Ground Roll	1345	1378	1443	1509	1706	1935	1361
	15 m / 50 ft	2198	2296	2362	2493	2788	3116	2247
5000 ft	Ground Roll	1378	1443	1476	1607	1804	***	1404
	15 m / 50 ft	2296	2362	2427	2624	2952	***	2309
6000 ft	Ground Roll	1443	1476	1542	1706	1902	***	1450
	15 m / 50 ft	2362	2427	2526	2755	3083	***	2368
7000 ft	Ground Roll	1509	1574	1607	1804	2034	***	1506
	15 m / 50 ft	2460	2558	2624	2919	3280	***	2463
8000 ft	Ground Roll	1607	1673	1738	1968	2198	***	1601
	15 m / 50 ft	2591	2690	2788	3149	3510	***	2585
9000 ft	Ground Roll	1738	1804	1902	2165	2427	***	1715
	15 m / 50 ft	2755	2854	3018	3378	3805	***	2729
10,000 ft	Ground Roll	1902	1935	2099	2394	***	***	1843
	15 m / 50 ft	2952	3050	3280	3674	***	***	2900

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Landing 3979 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps LDG Power IDLE
V_{Ref} 84 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1515	1565	1620	1676	1807	2037	1591
	15 m / 50 ft	2558	2637	2713	2788	3004	3362	2676
1000 ft	Ground Roll	1565	1624	1683	1732	1909	2139	1640
	15 m / 50 ft	2637	2716	2795	2877	3152	3529	2739
2000 ft	Ground Roll	1624	1686	1738	1797	2011	2257	1692
	15 m / 50 ft	2719	2798	2883	2965	3313	3697	2808
3000 ft	Ground Roll	1686	1742	1804	1876	2122	2371	1735
	15 m / 50 ft	2801	2890	2972	3090	3474	3877	2883
4000 ft	Ground Roll	1745	1811	1866	1984	2234	2503	1791
	15 m / 50 ft	2893	2978	3070	3244	3647	4064	2955
5000 ft	Ground Roll	1811	1873	1938	2093	2362	***	1837
	15 m / 50 ft	2982	3077	3168	3414	3828	***	3034
6000 ft	Ground Roll	1876	1945	2007	2214	2483	***	1896
	15 m / 50 ft	3083	3175	3273	3585	4021	***	3109
7000 ft	Ground Roll	1965	2040	2106	2362	2657	***	1975
	15 m / 50 ft	3224	3323	3424	3821	4271	***	3237
8000 ft	Ground Roll	2109	2188	2276	2578	2886	***	2102
	15 m / 50 ft	3424	3526	3667	4126	4612	***	3414
9000 ft	Ground Roll	2273	2358	2499	2827	3159	***	2257
	15 m / 50 ft	3660	3772	3992	4487	5009	***	3621
10,000 ft	Ground Roll	2476	2568	2768	3126	***	***	2434
	15 m / 50 ft	3939	4054	4369	4900	***	***	3880

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Normal Landing 3748 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps LDG Power IDLE
V_{Ref} 84 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1050	1115	1148	1181	1279	1410	1099
	15 m / 50 ft	1804	1870	1935	1968	2132	2394	1893
1000 ft	Ground Roll	1115	1148	1181	1214	1345	1509	1135
	15 m / 50 ft	1870	1935	2001	2034	2230	2493	1938
2000 ft	Ground Roll	1148	1181	1214	1246	1410	1574	1168
	15 m / 50 ft	1935	2001	2066	2099	2362	2624	1984
3000 ft	Ground Roll	1181	1214	1246	1312	1476	1640	1204
	15 m / 50 ft	2001	2066	2099	2198	2460	2755	2037
4000 ft	Ground Roll	1214	1246	1312	1378	1574	1738	1233
	15 m / 50 ft	2066	2132	2165	2296	2591	2886	2086
5000 ft	Ground Roll	1279	1312	1345	1476	1640	***	1273
	15 m / 50 ft	2132	2198	2263	2427	2722	***	2139
6000 ft	Ground Roll	1312	1345	1410	1542	1738	***	1315
	15 m / 50 ft	2198	2263	2329	2558	2854	***	2198
7000 ft	Ground Roll	1378	1443	1476	1640	1837	***	1368
	15 m / 50 ft	2263	2362	2427	2690	3018	***	2273
8000 ft	Ground Roll	1476	1509	1607	1804	2001	***	1460
	15 m / 50 ft	2427	2493	2591	2919	3247	***	2398
9000 ft	Ground Roll	1607	1673	1771	2001	2230	***	1578
	15 m / 50 ft	2591	2657	2821	3149	3510	***	2542
10,000 ft	Ground Roll	1738	1804	1968	2198	***	***	1712
	15 m / 50 ft	2788	2854	3083	3444	***	***	2716

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Abnormal Landing 4407 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP or UP
Power IDLE
V_{Ref} 92 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1673	1738	1804	1837	2001	2230	1745
	15 m / 50 ft	2821	2886	2985	3083	3313	3706	2932
1000 ft	Ground Roll	1738	1804	1870	1902	2099	2362	1797
	15 m / 50 ft	2886	2985	3083	3182	3477	3870	3004
2000 ft	Ground Roll	1804	1870	1902	2001	2230	2493	1853
	15 m / 50 ft	2985	3083	3182	3280	3641	4067	3077
3000 ft	Ground Roll	1870	1935	2001	2066	2329	2624	1902
	15 m / 50 ft	3083	3182	3280	3411	3805	4264	3159
4000 ft	Ground Roll	1935	2001	2066	2198	2460	2755	1961
	15 m / 50 ft	3182	3280	3378	3575	4002	4461	3237
5000 ft	Ground Roll	2001	2066	2132	2296	2591	***	2014
	15 m / 50 ft	3280	3378	3477	3772	4231	***	3326
6000 ft	Ground Roll	2066	2132	2230	2427	2722	***	2080
	15 m / 50 ft	3378	3510	3608	3936	4428	***	3411
7000 ft	Ground Roll	2165	2230	2329	2591	2919	***	2162
	15 m / 50 ft	3542	3641	3772	4198	4690	***	3542
8000 ft	Ground Roll	2296	2394	2493	2821	3149	***	2289
	15 m / 50 ft	3739	3870	4002	4526	5051	***	3726
9000 ft	Ground Roll	2493	2558	2722	3083	3444	***	2444
	15 m / 50 ft	3969	4100	4330	4887	5445	***	3936
10,000 ft	Ground Roll	2657	2755	2985	3378	***	***	2621
	15 m / 50 ft	4264	4395	4723	5314	***	***	4185

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Abnormal Landing 4189 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP or UP
Power IDLE
V_{Ref} 86 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1607	1673	1706	1771	1902	2132	1676
	15 m / 50 ft	2690	2755	2854	2919	3149	3542	2795
1000 ft	Ground Roll	1673	1706	1771	1837	2001	2263	1719
	15 m / 50 ft	2755	2854	2952	3018	3313	3706	2867
2000 ft	Ground Roll	1706	1771	1837	1902	2132	2394	1771
	15 m / 50 ft	2854	2952	3018	3116	3477	3870	2936
3000 ft	Ground Roll	1771	1837	1902	2001	2230	2493	1817
	15 m / 50 ft	2952	3050	3116	3247	3641	4067	3014
4000 ft	Ground Roll	1837	1902	1968	2099	2362	2624	1876
	15 m / 50 ft	3050	3116	3214	3411	3838	4264	3090
5000 ft	Ground Roll	1902	1968	2034	2198	2493	***	1935
	15 m / 50 ft	3149	3247	3313	3575	4002	***	3168
6000 ft	Ground Roll	1968	2066	2132	2329	2624	***	1988
	15 m / 50 ft	3247	3346	3444	3772	4231	***	3254
7000 ft	Ground Roll	2066	2165	2230	2493	2788	***	2076
	15 m / 50 ft	3378	3477	3575	4002	4461	***	3378
8000 ft	Ground Roll	2230	2296	2394	2722	3018	***	2204
	15 m / 50 ft	3575	3706	3838	4330	4822	***	3559
9000 ft	Ground Roll	2394	2460	2624	2952	3313	***	2352
	15 m / 50 ft	3805	3936	4166	4690	5215	***	3772
10,000 ft	Ground Roll	2591	2690	2886	3247	***	***	2532
	15 m / 50 ft	4100	4231	4559	5117	***	***	4025

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Abnormal Landing 3979 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP or UP
Power IDLE
V_{Ref} 86 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1515	1565	1620	1676	1807	2037	1591
	15 m / 50 ft	2558	2637	2713	2788	3004	3362	2676
1000 ft	Ground Roll	1565	1624	1683	1732	1909	2139	1640
	15 m / 50 ft	2637	2716	2795	2877	3152	3529	2739
2000 ft	Ground Roll	1624	1686	1738	1797	2011	2257	1692
	15 m / 50 ft	2719	2798	2883	2965	3313	3697	2808
3000 ft	Ground Roll	1686	1742	1804	1876	2122	2371	1735
	15 m / 50 ft	2801	2890	2972	3090	3474	3877	2883
4000 ft	Ground Roll	1745	1811	1866	1984	2234	2503	1791
	15 m / 50 ft	2893	2978	3070	3244	3647	4064	2955
5000 ft	Ground Roll	1811	1873	1938	2093	2362	***	1837
	15 m / 50 ft	2982	3077	3168	3414	3828	***	3034
6000 ft	Ground Roll	1876	1945	2007	2214	2483	***	1896
	15 m / 50 ft	3083	3175	3273	3585	4021	***	3109
7000 ft	Ground Roll	1965	2040	2106	2362	2657	***	1975
	15 m / 50 ft	3224	3323	3424	3821	4271	***	3237
8000 ft	Ground Roll	2109	2188	2276	2578	2886	***	2102
	15 m / 50 ft	3424	3526	3667	4126	4612	***	3414
9000 ft	Ground Roll	2273	2358	2499	2827	3159	***	2257
	15 m / 50 ft	3660	3772	3992	4487	5009	***	3621
10,000 ft	Ground Roll	2476	2568	2768	3126	***	***	2434
	15 m / 50 ft	3939	4054	4369	4900	***	***	3880

BAY CITY FLYERS

PROFESSIONAL FLIGHT TRAINING. BUILDING CONFIDENCE THROUGH PROFICIENCY.

DA42-VI Abnormal Landing 3748 lb (AFM Rev. 3, April 1, 2014)

Dry, Paved, Level Runway
Flaps APP or UP
Power IDLE
V_{Ref} 86 KIAS

Headwind - decrease 10% per 14 knots
Tailwind - increase 10% per 3 knots
Increase ground roll 9% per 1% slope
For unpaved/grass runway, see AFM

Press Alt	Distance	Outside Air Temperature - [˚C] / [˚F]						
Feet	Feet	0 / 32	10 / 50	20/ 68	30 / 86	40 / 104	50 / 122	ISA
SL	Ground Roll	1476	1509	1574	1607	1738	1968	1522
	15 m / 50 ft	2460	2558	2624	2690	2886	3247	2568
1000 ft	Ground Roll	1509	1574	1607	1673	1837	2066	1568
	15 m / 50 ft	2558	2624	2690	2788	3050	3411	2631
2000 ft	Ground Roll	1574	1607	1673	1738	1935	2165	1614
	15 m / 50 ft	2624	2690	2788	2854	3182	3542	2693
3000 ft	Ground Roll	1607	1673	1738	1804	2034	2263	1656
	15 m / 50 ft	2690	2788	2854	2985	3346	3739	2765
4000 ft	Ground Roll	1673	1738	1804	1902	2132	2394	1709
	15 m / 50 ft	2788	2886	2952	3116	3510	3903	2834
5000 ft	Ground Roll	1738	1804	1870	2001	2263	***	1755
	15 m / 50 ft	2886	2952	3050	3280	3674	***	2909
6000 ft	Ground Roll	1804	1870	1935	2132	2394	***	1811
	15 m / 50 ft	2985	3050	3149	3444	3870	***	2985
7000 ft	Ground Roll	1902	1968	2034	2263	2558	***	1893
	15 m / 50 ft	3116	3214	3280	3674	4100	***	3100
8000 ft	Ground Roll	2034	2099	2198	2493	2788	***	2014
	15 m / 50 ft	3313	3411	3542	3969	4461	***	3283
9000 ft	Ground Roll	2198	2296	2427	2722	3050	***	2171
	15 m / 50 ft	3542	3641	3838	4330	4822	***	3490
10,000 ft	Ground Roll	2394	2493	2690	3018	***	***	2352
	15 m / 50 ft	3805	3936	4231	4756	***	***	3752