



Tuber Speed Change Chart

The following chart shows the approximate change in speed of a tuber based on starting speed *for that segment*. To determine the change in speed over any 25-foot segment of tubing lane, find the horizontal row that contains the average incline for that 25-foot segment. Then, go across the table and find the “Starting Speed” that most closely matches your tuber’s speed while they entered that segment. The box to the immediate right indicates the approximate change in speed they will experience throughout that 25-foot segment of lane. Starting at the top of the run, one can approximate the final speeds at the end of every 25-foot segment of tubing lane. **IMPORTANT!** - Many factors can influence the speed including temperature, wind, humidity, Tube Wax use, etc. Always consult with the engineers at mSnow™ prior to any final lane design!

Speed Change over 25ft Distance Based on Starting Speed [mph]															
Incline [degrees]	Slope [%-Grade]	Starting Speed	Speed Change	Starting Speed	Speed Change	Starting Speed	Speed Change	Starting Speed	Speed Change	Starting Speed	Speed Change	Starting Speed	Speed Change	Starting Speed	Speed Change
-2	-3.5	0		5		10	-9.13	15	-4.56	20	-3.86	25	-3.66	30	-3.67
-1	-1.7	0		5		10	-6.29	15	-3.95	20	-3.46	25	-3.36	30	-3.42
0	0.0	0		5		10	-4.82	15	-3.38	20	-3.07	25	-3.06	30	-3.18
1	1.7	0		5		10	-3.69	15	-2.83	20	-2.69	25	-2.76	30	-2.93
2	3.5	0		5		10	-2.73	15	-2.31	20	-2.32	25	-2.47	30	-2.69
3	5.2	0		5	-3.97	10	-1.88	15	-1.80	20	-1.95	25	-2.18	30	-2.46
4	7.0	0		5	-1.24	10	-1.11	15	-1.31	20	-1.59	25	-1.90	30	-2.22
5	8.7	0	2.36	5	0.22	10	-0.40	15	-0.84	20	-1.24	25	-1.62	30	-1.98
6	10.5	0	4.32	5	1.35	10	0.26	15	-0.39	20	-0.89	25	-1.34	30	-1.75
7	12.3	0	5.63	5	2.31	10	0.88	15	0.05	20	-0.56	25	-1.06	30	-1.52
8	14.1	0	6.69	5	3.15	10	1.46	15	0.48	20	-0.22	25	-0.79	30	-1.29
9	15.8	0	7.61	5	3.92	10	2.02	15	0.90	20	0.11	25	-0.52	30	-1.07
10	17.6	0	8.42	5	4.62	10	2.55	15	1.30	20	0.43	25	-0.26	30	-0.84
11	19.4	0	9.16	5	5.27	10	3.06	15	1.70	20	0.74	25	0.00	30	-0.62
12	21.3	0	9.84	5	5.89	10	3.55	15	2.08	20	1.05	25	0.26	30	-0.40
13	23.1	0	10.48	5	6.47	10	4.02	15	2.46	20	1.36	25	0.52	30	-0.18
14	24.9	0	11.08	5	7.02	10	4.47	15	2.82	20	1.66	25	0.77	30	0.03
15	26.8	0	11.65	5	7.54	10	4.91	15	3.18	20	1.96	25	1.02	30	0.25