



Speed Charts

The following chart shows the approximate speed achieved by various heights of 30 degree drop-in ramps.

Drop-In Speeds for Typical 30 degree Ramp		
Height [feet]	Length [feet]	Speed [mph]
1	1.73	5.1
2	3.46	7.2
3	5.20	8.7
4	6.93	10.0
5	8.66	11.1
6	10.39	12.1
7	12.12	13.0
8	13.86	13.8
9	15.59	14.5
10	17.32	15.2



The following chart shows the approximate speed of a tuber at a given location during their run down a constant grade. **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!

Approximate Speed [mph] at Slide Locations							
Incline [degrees]	Slope [%-Grade]	0 [ft]	50 [ft]	100 [ft]	150 [ft]	200 [ft]	
5	8.7	0.0	3.3	5.2	6.2	6.5	After 200ft, the tuber will maintain these speeds.
6	10.5	0.0	6.1	9.6	11.4	11.8	
7	12.3	0.0	8.0	12.5	14.9	15.4	
8	14.1	0.0	9.5	14.9	17.7	18.3	
9	15.8	0.0	10.8	16.9	20.1	20.8	
10	17.6	0.0	11.9	18.7	22.2	23.0	
11	19.4	0.0	13.0	20.3	24.2	25.1	
12	21.3	0.0	13.9	21.9	26.0	26.9	
13	23.1	0.0	14.8	23.3	27.7	28.7	
14	24.9	0.0	15.7	24.6	29.2	30.3	
15	26.8	0.0	16.5	25.9	30.7	31.9	



7-11 mph



12-16 mph



17-23 mph



24-32 mph