Cluster Generation and Sequencing	MiSeq Reagent Kit v2				MiSeq Reagent Kit v2 Micro	MiSeq Reagent Kit v2 Nano		MiSeq Reagent Kit v3	
Read Length	1 × 36 bp	2 × 25 bp	2 × 150 bp	2 × 250 bp	2 × 150 bp	2 × 250 bp	2 × 150 bp	2 × 75 bp	2 × 300 bp
Output	540–610 Mb	750–850 Mb	4.5–5.1 Gb	7.5–8.5 Gb	1.2 Gb	500 Mb	300 Mb	3.3–3.8 Gb	13.2–15 Gb

Reads Passing Filter Per Flow Cell

	MiSeq Reagent Kit v2	MiSeq Reagent Kit v2 Micro	MiSeq Reagent Kit v2 Nano	MiSeq Reagent Kit v3
Single-end Reads (Clusters)	12-15 M	4 M	1 M	22-25 M

Quality Scores* (average across the entire run)

	MiSeq Reagent Kit v2	MiSeq Reagent Kit v3
	> 90% bases higher than Q30 at 1 × 36 bp	> 85% bases higher than Q30 at 2 × 75 bp
	> 90% bases higher than Q30 at 2 × 25 bp	> 70% bases higher than Q30 at 2 × 300 bp
	> 80% bases higher than Q30 at 2 × 150 bp	
	> 75% bases higher than Q30 at 2 × 250 bp	

*Specifications based on Illumina PhiX control library at supported cluster densities. Performance may vary based on library type and quality, insert size, loading concentration, and other experimental factors.