Novaseq-XP Mode Loading (one pool/LANE)				
Platform	**NovaSeq 6000 SP XP**	**NovaSeq 6000 S1 XP**	**NovaSeq 6000 S2 XP**	**NovaSeq 6000 S4 XP**
Nickname for system	**SP-XP**	**S1- XP**	**S2-XP**	**S4-XP**
Platform	NovaSeq 6000 SP XP	NovaSeq 6000 S1 XP	NovaSeq 6000 S2 XP	NovaSeq 6000 S4 XP
Flowcells processed	1	1	1	1
Depth	125 Gb (2x150bp)	200-250 Gb (2x150bp)	500-625 (2x150bp)	600-750 Gb (2x150bp)
Run time	1 dy – 2 dy	1 dy- 2 dy	1 dy – 2 dy	1 dy – 2 dy
Lanes/Flowcell	2	2	2	4
Max PAIRED END Reads/LANE	800 million	1600 million	3.8 billion	5 billion
Max SINGLE END Reads/LANE	400 milion	800 million	1.9 billion	2.5 billion
Max Clusters/LANE	400 milion	800 million	1.9 billion	2.5 billion
Read Type Format	Paired End *single end available upon request			Paired End
Read Length Available	50x, 150x, Custom Cycles	50x, 100x, 150x, Custom Cycles	50x, 100x, 150x, Custom Cycles	100x, 150x
Guaranteed read #/lane(see note below)	600 million, paired end	1.4 billion, paired end	3.2 billion, paired end	4 billion, paired end
Key applications	10X single cell, Chip-seq transcriptome	Single Trio Human, 10X single cell, Chip-seq transcriptome	genome, exome, transcriptome, ChIP-seq	genome, exome, transcriptome,

*** NOTE: Custom Cycles are typically possible if the entire flowcell is filled by the study. Please contact HTSF for confirmation.**

The number of reads is only guaranteed for standardized libraries prepared and pooled by the HTSF. For novel library preparations, the HTSF may require a pilot to

Read Number Guarantee :	determine if we are capable to meet the goals. The pilot will typically be at the expense of the project. We can not guarantee the length for libraries and / or pools prepared by studies. *We will make every effort to have successful seq results,* but the number of reads per library, especially in the case of novel library preps or unbalanced pools may not meet the read per lane goals. Keep in mind that the above table refers to high diversity genomic DNA samples. For most other applications a 10% reduction in yield is to be expected.