

Disk Price  
Performance Analysis

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC		
1	SPECIFICATIONS						PERFORMANCE					LONGEVITY				POWER USAGE				Actual		Warranty		Normalized	Computed	TBD	Energy				
2	Date	Manu	Model	Type	ormFactc	SizTB	RPM	vgLatenc	SeekT	PerfCmp	XferRate	Wamty	CycleCnt	WorkLoad	MTBF	RErrRate	xStartupW	Watts Acti	Watts Idle	WattsStand	Cost	\$ TB	\$+Warr	\$PerTB	\$ TB/year	mp \$/Perf/Si	Energy\$	Yearly\$	YearPe	Notes	
3	10/28/2017	HGST	<a href="#">Deskstar NAS</a>	NAS	3.50	4.00	7,200		11.99	33%	202	3	600,000		1,000,000	1.000E+14	30.00		7.30		\$110.00	\$27.50	\$134.19	\$33.55	\$6.71					HGST drives are now owned by WD	
4	10/11/2017	HGST	<a href="#">Deskstar NAS</a>	NAS	3.50	6.00	7,200		11.99	33%	227	3	600,000		1,000,000	1.000E+14	30.00		7.30		\$179.99	\$30.00	\$219.59	\$36.60	\$7.32						
5	10/29/2017	HGST	<a href="#">Deskstar NAS</a>	NAS	3.50	8.00	7,200		11.99	33%	205	3	600,000		1,000,000	1.000E+14	30.00		5.10		\$279.99	\$35.00	\$341.59	\$42.70	\$8.54						
6	10/19/2017	HGST	<a href="#">Deskstar NAS</a>	NAS	3.50	10.00	7,200		11.99	33%	240	3	600,000		1,000,000	1.000E+14	30.00		5.10		\$324.99	\$32.50	\$396.49	\$39.65	\$7.93						
7	9/27/2017	HGST	<a href="#">Travelstar 5K100</a>		2.50	1.00	5,400	5.50	12.00	0%	99	3	600,000				4.50	1.60	0.80	0.200	\$49.99	\$49.99	\$60.99	\$60.99	\$12.20						
8	10/28/2017	HGST	<a href="#">Travelstar 7K100</a>		2.50	0.10	7,200	4.20	12.00	33%	128	3	600,000				5.50	1.80	1.00	0.200	\$54.99	\$549.90	\$67.09	\$670.88	\$134.18						
9	9/6/2017	HGST	<a href="#">Ultrastar 7K6</a>	NAS	3.50	2.00	7,200	4.16	8.00	33%	192	5	600,000		2,000,000	1.000E+15		9.10	7.10		\$149.34	\$74.67	\$149.34	\$74.67	\$14.93		\$8.22	\$4.11			
10	9/6/2017	HGST	<a href="#">Ultrastar 7K6</a>	NAS	3.50	4.00	7,200	4.16	8.00	33%	192	5	600,000		2,000,000	1.000E+15		9.10	7.10		\$255.99	\$64.00	\$255.99	\$64.00	\$12.80		\$8.22	\$2.05			
11	9/6/2017	HGST	<a href="#">Ultrastar 7K6</a>	NAS	3.50	5.00	7,200	4.16	8.00	33%	192	5	600,000		2,000,000	1.000E+15		9.10	7.10		\$381.42	\$76.28	\$381.42	\$76.28	\$15.26		\$8.22	\$1.64			
12	9/6/2017	HGST	<a href="#">Ultrastar 7K6</a>	NAS	3.50	6.00	7,200	4.16	8.00	33%	216	5	600,000		2,000,000	1.000E+15		9.10	7.10		\$301.53	\$50.26	\$301.53	\$50.26	\$10.05		\$8.22	\$1.37			
13	10/25/2017	HGST	<a href="#">Ultrastar Archive Ha<sup>10</sup></a>	SMR	3.50	8.00	7,200	4.16	8.50	33%	157	5	600,000		2,000,000	1.000E+15		7.60	5.10		\$373.00	\$46.63	\$373.00	\$46.63	\$9.33		\$6.14	\$0.77		Helium filled, Shingled (SMR)	
14	10/13/2017	HGST	<a href="#">Ultrastar C10K1200</a>	NAS	2.50	1.20	10,520	2.85	4.40	95%	224	5			2,000,000	1.000E+16		6.50	4.70		\$180.00	\$150.00	\$180.00	\$150.00	\$30.00		\$5.54	\$4.62			
15	10/13/2017	HGST	<a href="#">Ultrastar C10K1800</a>	NAS	2.50	1.80	10,520	2.85	4.40	95%	224	5			2,000,000	1.000E+16		6.60	4.70		\$315.00	\$175.00	\$315.00	\$175.00	\$35.00		\$5.57	\$3.09			
16	10/13/2017	HGST	<a href="#">Ultrastar C15K600</a>	NAS	2.50	0.60	15,030	1.99	3.10	178%	250	5			2,000,000	1.000E+17		7.50	5.80		\$259.99	\$433.32	\$259.99	\$433.32	\$86.66		\$6.73	\$11.21			
17	10/11/2017	HGST	<a href="#">Ultrastar He<sup>6</sup></a>	NAS	3.50	6.00	7,200	4.16	9.00	33%	195	5	600,000	550	2,500,000	1.000E+15		7.40	5.10		\$179.99	\$30.00	\$179.99	\$30.00	\$6.00		\$6.09	\$1.02		Helium filled	
18	10/11/2017	HGST	<a href="#">Ultrastar He<sup>8</sup></a>	NAS	3.50	8.00	7,200	4.16	8.50	33%	237	5	600,000	550	2,500,000	1.000E+15		7.40	5.10		\$285.00	\$35.63	\$285.00	\$35.63	\$7.13		\$6.09	\$0.76		Helium filled	
19	9/27/2017	HGST	<a href="#">Ultrastar He<sup>10</sup></a>	NAS	3.50	10.00	7,200	4.16	8.00	33%	237	5	600,000	550	2,500,000	1.000E+15		6.80	5.00		\$349.99	\$35.00	\$349.99	\$35.00	\$7.00		\$5.87	\$0.59		Helium filled	
20	9/27/2017	HGST	<a href="#">Ultrastar He<sup>12</sup></a>	NAS	3.50	12.00	7,200	4.16	8.60	33%	243	5	600,000	550	2,500,000	1.000E+15		7.20	5.30		\$619.98	\$51.67	\$619.98	\$51.67	\$10.33		\$6.22	\$0.52		Helium filled	
21	10/13/2017	HGST	<a href="#">Ultrastar Hs<sup>14</sup></a>	SMR	3.50	14.00	7,200	4.16	12.00	33%	223	5	600,000	550	2,500,000	1.000E+15		6.40	5.20			\$0.00	\$0.00	\$0.00	\$0.00			\$5.96	\$0.43		Helium filled, Shingled (SMR)
22	9/29/2017	Seagate	<a href="#">BarraCuda</a>		3.50	1.00	5,400	4.16	9.50	0%	210	2	300,000	55		1.000E+14	24.00	5.30	4.60	0.940	\$46.99	\$46.99	\$62.50	\$62.50	\$12.50		\$5.19	\$5.19			
23	10/31/2017	Seagate	<a href="#">BarraCuda</a>		3.50	2.00	5,400	6.00	15.00	0%	210	2	600,000	55		1.000E+14	30.00	8.00	5.40	0.750	\$59.99	\$30.00	\$79.79	\$39.89	\$7.98		\$6.49	\$3.24			
24	10/6/2017	Seagate	<a href="#">BarraCuda</a>		3.50	3.00	5,400	6.00	15.00	0%	210	2	600,000	55		1.000E+14	30.00	8.00	5.40	0.750	\$69.99	\$23.33	\$93.09	\$31.03	\$6.21		\$6.49	\$2.16			
25	10/11/2017	Seagate	<a href="#">BarraCuda</a>		3.50	4.00	5,400	6.00	15.00	0%	190	2	600,000	55		1.000E+14	24.00	5.00	2.50	0.250	\$114.99	\$28.75	\$152.94	\$38.23	\$7.65		\$3.29	\$0.82			
26	10/11/2017	Seagate	<a href="#">BarraCuda</a>		2.50	1.00	5,400			0%	140	2	600,000			1.000E+14	5.00	1.70	0.45		\$49.99	\$49.99	\$66.49	\$66.49	\$13.30		\$0.77	\$0.77			
27	10/11/2017	Seagate	<a href="#">BarraCuda</a>		2.50	2.00	5,400			0%	140	2	600,000			1.000E+14	5.00	1.80	0.50		\$66.99	\$33.50	\$89.10	\$44.55	\$8.91		\$0.83	\$0.42			
28	10/11/2017	Seagate	<a href="#">BarraCuda</a>		2.50	3.00	5,400			0%	140	2	600,000			1.000E+14	6.00	2.10	1.10		\$89.99	\$30.00	\$119.69	\$39.90	\$7.98		\$1.42	\$0.47			
29	10/11/2017	Seagate	<a href="#">BarraCuda</a>		2.50	4.00	5,400			0%	140	2	600,000			1.000E+14	6.00	2.10	1.10		\$114.99	\$28.75	\$152.94	\$38.23	\$7.65		\$1.42	\$0.36			
30	7/31/2017	Seagate	<a href="#">BarraCuda</a>		2.50	5.00	5,400			0%	140	2	600,000			1.000E+14	6.00	2.10	1.10		\$209.99	\$42.00	\$279.29	\$55.86	\$11.17		\$1.42	\$0.35			
31	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	2.00	7,200	4.16		33%	195	5	600,000	180		1.000E+15	24.00	7.50	4.50	0.800	\$127.99	\$64.00	\$127.99	\$64.00	\$12.80		\$5.59	\$2.79			
32	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	4.00	7,200	4.16		33%	214	5	600,000	180		1.000E+15	24.00	6.70	6.00	0.600	\$174.99	\$43.75	\$174.99	\$43.75	\$8.75		\$6.73	\$1.68			
33	5/6/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	5.00	7,200	4.16		33%	220	5	300,000	300		1.000E+15	23.28	8.37	4.42	0.800	\$214.99	\$43.00	\$214.99	\$43.00	\$8.60		\$5.71	\$1.14			
34	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	6.00	7,200	4.16		33%	180	5	300,000	300		1.000E+15	24.00	9.00	7.20	0.600	\$249.99	\$41.67	\$249.99	\$41.67	\$8.33		\$8.28	\$1.38			
35	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	8.00	7,200	4.16		33%	220	5	300,000	300		1.000E+15	24.00	6.80	4.50	0.800	\$324.99	\$40.62	\$324.99	\$40.62	\$8.12		\$5.43	\$0.69			
36	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	10.00	7,200	4.16		33%	220	5	300,000	300		1.000E+15	21.60	6.80	4.50	0.800	\$424.99	\$42.50	\$424.99	\$42.50	\$8.50		\$5.43	\$0.54			
37	10/11/2017	Seagate	<a href="#">BarraCuda Pro</a>		3.50	12.00	7,200			33%	250	5		300							\$524.99	\$43.75	\$524.99	\$43.75	\$8.75						
38	10/19/2017	Seagate	<a href="#">Exos 10E2400</a>	NAS	2.50	1.80	10,500	2.90		94%	270	5		550	2,000,000	1.000E+16		6.95	4.26			\$0.00	\$0.00	\$0.00	\$0.00			\$5.26	\$2.92		16GiB NAND
39	10/19/2017	Seagate	<a href="#">Exos 10E2400</a>	NAS	2.50	2.40	10,500	2.90		94%	270	5		550	2,000,000	1.000E+16		8.57	4.90		\$514.99	\$214.58	\$514.99	\$214.58	\$42.92		\$6.17	\$2.57		16GiB NAND	
40	10/19/2017	Seagate	<a href="#">Exos 15E900</a>	NAS	3.50	0.90	15,000	2.00		178%	215	5		550	2,000,000	1.000E+16		7.60	5.70			\$0.00	\$0.00	\$0.00	\$0.00			\$6.66	\$0.40		8GiB NAND
41	10/19/2017	Seagate	<a href="#">Exos 5E8</a>		3.50	8.00	5,900			9%	190	3	300,000	180	800,000	1.000E+14	24.00	5.30	3.70	0.990	\$229.99	\$28.75	\$280.59	\$35.07	\$7.01		\$4.40	\$0.83		Shingled Magnetic Recording (SMR)	
42	10/19/2017	Seagate	<a href="#">Exos 7E2</a>	NAS	3.50	1.00	7,200	4.16		33%	194	5		550	2,000,000	1.000E+15		7.00	4.70			\$0.00	\$0.00	\$0.00	\$0.00			\$0.00	\$0.00		
43	10/19/2017	Seagate	<a href="#">Exos 7E2</a>	NAS	3.50	2.00	7,200	4.16		33%	194	5		550	2,000,000	1.000E+15		7.00	4.70		\$306.60	\$153.30	\$306.60	\$153.30	\$30.66		\$0.00	\$0.00			
44	10/29/2017	Seagate	<a href="#">Exos 7E2000</a>	NAS	2.50	1.00	7,200	4.16		33%	136	5	300,000	550	2,000,000	1.000E+15		5.90	3.29	1.520	\$184.41	\$184.41	\$184.41	\$184.41	\$36.88		\$4.18	\$4.18			
45	10/19/2017	Seagate	<a href="#">Exos 7E2000</a>	NAS	2.50	2.00	7,200	4.16		33%	136	5	300,000	550	2,000,000	1.000E+15		6.02	3.53	1.520	\$329.99	\$165.00	\$329.99	\$165.00	\$33.00		\$4.41	\$2.21			
46	10/19/2017	Seagate	<a href="#">Exos 7E8</a>	NAS	3.50	1.00	7,200	4.16																							

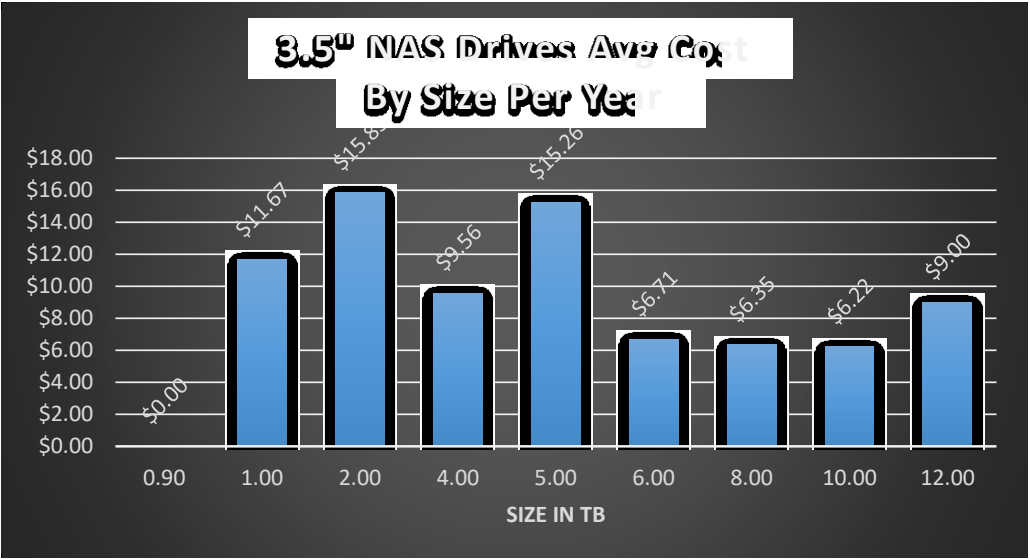


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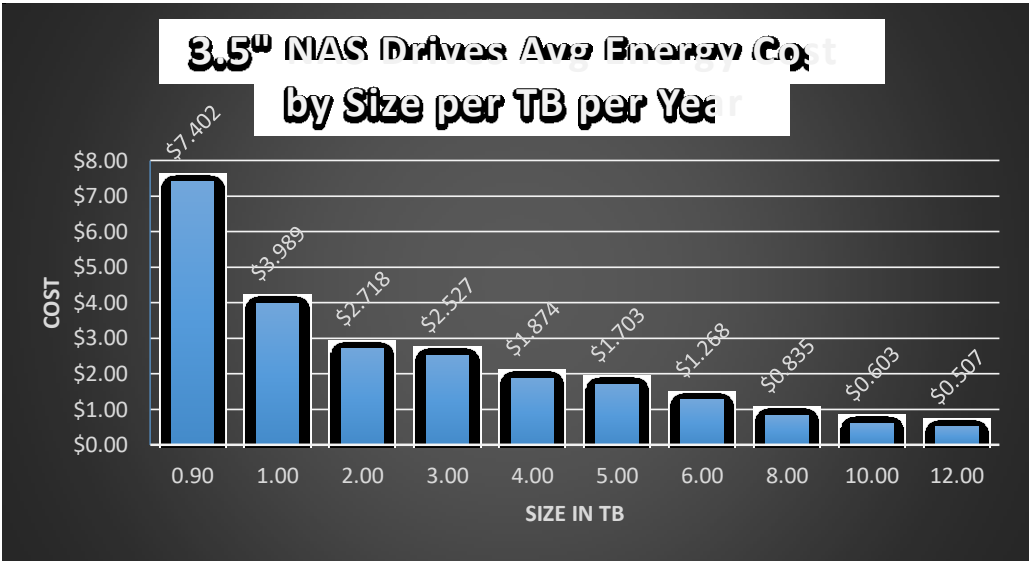
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	
1	SPECIFICATIONS						PERFORMANCE						LONGEVITY				POWER USAGE				Actual		Warranty	Normalized	Computed	TBD	Energy			
2	Date	Manu	Model	Type	ormFactc	SizTB	RPM	vgLatenc	SeekT	PerfCmp	XferRate	Warranty	CycleCnt	WorkLoad	MTBF	RErrRate	xStartupW	Watts Activ	Watts Idle	Watts Stand	Cost	\$ TB	\$+Warr	\$PerTB	\$ TB/year	Warr \$/Perf/Si	Energy \$/year	Energy \$/year	YearPe	Notes
79	10/11/2017	Toshiba	<a href="#">N300</a>	NAS	3.50	6.00	7,200	4.17		33%	210	3		180	1,000,000	1.000E+14		10.10	6.70		\$197.97	\$33.00	\$241.52	\$40.25	\$8.05		\$8.09	<a href="#">\$1.35</a>		
80	10/11/2017	Toshiba	<a href="#">N300</a>	NAS	3.50	8.00	7,200	4.17		33%	240	3		180	1,000,000	1.000E+14		9.20	6.20		\$269.99	\$33.75	\$329.39	\$41.17	\$8.23		\$7.45	<a href="#">\$0.93</a>		
81	10/11/2017	Toshiba	<a href="#">P300</a>		3.50	1.00	7,200	4.17		33%		2									\$49.99	\$49.99	\$66.49	\$66.49	\$13.30					
82	10/7/2017	Toshiba	<a href="#">P300</a>		3.50	2.00	7,200	4.17		33%		2									\$71.99	\$36.00	\$95.75	\$47.87	\$9.57					
83	10/20/2017	Toshiba	<a href="#">P300</a>		3.50	3.00	7,200	4.17		33%		2									\$74.99	<a href="#">\$25.00</a>	\$99.74	\$33.25	<a href="#">\$6.65</a>					
84	10/11/2017	Toshiba	<a href="#">X300</a>		3.50	4.00	7,200	4.17		33%		2									\$129.99	\$32.50	\$172.89	\$43.22	\$8.64					
85	10/11/2017	Toshiba	<a href="#">X300</a>		3.50	5.00	7,200	4.17		33%		2									\$141.97	<a href="#">\$28.39</a>	\$188.82	\$37.76	\$7.55					
86	10/29/2017	Toshiba	<a href="#">X300</a>		3.50	6.00	7,200	4.17		33%		2									\$169.99	<a href="#">\$28.33</a>	\$226.09	\$37.68	\$7.54					
87	10/11/2017	Toshiba	<a href="#">X300</a>		3.50	8.00	7,200	4.17		33%		2									\$254.99	\$31.87	\$339.14	\$42.39	\$8.48					
88	10/23/2017	WD	<a href="#">Ae</a>	SMR	3.50	6.00	5,760			7%	150	3	300,000		500,000	1.000E+14		6.50	4.80		\$169.95	<a href="#">\$28.33</a>	\$207.34	\$34.56	<a href="#">\$6.91</a>		\$5.63	<a href="#">\$0.94</a>	SMR	
89	10/10/2017	WD	<a href="#">Black</a>		2.50	1.00	7,200			33%		5	600,000			1.000E+14	5.50	1.80	0.80	0.200	\$69.99	\$69.99	\$69.99	\$69.99	\$14.00		\$1.10	<a href="#">\$1.10</a>		
90	10/21/2017	WD	<a href="#">Black</a>		3.50	1.00	7,200			33%	150	5	300,000			1.000E+14		6.80	6.10	0.800	\$69.99	\$69.99	\$69.99	\$69.99	\$14.00		\$6.84	<a href="#">\$6.84</a>		
91	10/28/2017	WD	<a href="#">Black</a>		3.50	2.00	7,200			33%	164	5	300,000			1.000E+14		9.50	8.10	1.300	\$109.99	\$55.00	\$109.99	\$55.00	\$11.00		\$9.18	<a href="#">\$4.59</a>		
92	10/19/2017	WD	<a href="#">Black</a>		3.50	4.00	7,200			33%	202	5	300,000			1.000E+14		9.10	5.80	1.000	\$169.99	\$42.50	\$169.99	\$42.50	\$8.50		\$7.08	<a href="#">\$1.77</a>		
93	9/22/2017	WD	<a href="#">Black</a>		3.50	5.00	7,200			33%	194	5	300,000			1.000E+14		10.60	7.60	1.600	\$134.99	<a href="#">\$27.00</a>	\$134.99	\$27.00	<a href="#">\$5.40</a>		\$8.98	<a href="#">\$1.80</a>		
94	10/25/2017	WD	<a href="#">Black</a>		3.50	6.00	7,200			33%	227	5	300,000			1.000E+14		9.10	7.10	1.000	\$219.99	\$36.67	\$219.99	\$36.67	\$7.33		\$8.22	<a href="#">\$1.37</a>		
95	10/25/2017	WD	<a href="#">Blue</a>		3.50	1.00	5,400			0%	150	2	300,000			1.000E+14					\$42.49	\$42.49	\$56.51	\$56.51	\$11.30					
96	10/19/2017	WD	<a href="#">Blue</a>		3.50	2.00	5,400			0%	147	2	300,000			1.000E+14	20.76	4.10	3.00	0.400	\$59.99	\$30.00	\$79.79	\$39.89	\$7.98		\$3.53	<a href="#">\$1.76</a>		
97	10/25/2017	WD	<a href="#">Blue</a>		3.50	3.00	5,400			0%	147	2	300,000			1.000E+14	20.76	4.10	3.00	0.400	\$79.99	<a href="#">\$26.66</a>	\$106.39	\$35.46	<a href="#">\$7.09</a>		\$3.53	<a href="#">\$1.10</a>		
98	10/25/2017	WD	<a href="#">Blue</a>		3.50	4.00	5,400			0%	150	2	300,000			1.000E+14	21.00	5.30	3.40	0.400	\$99.99	<a href="#">\$25.00</a>	\$132.99	\$33.25	<a href="#">\$6.65</a>		\$4.14	<a href="#">\$1.04</a>		
99	8/13/2017	WD	<a href="#">Blue</a>		3.50	5.00	5,400			0%	170	2	300,000			1.000E+14	21.00	5.30	3.40	0.400	\$235.89	\$47.18	\$313.73	\$62.75	\$12.55		\$4.14	<a href="#">\$0.83</a>		
100	10/11/2017	WD	<a href="#">Blue</a>		3.50	6.00	5,400			0%	175	2	300,000			1.000E+14	21.00	5.30	3.40	0.400	\$196.99	\$32.83	\$262.00	\$43.67	\$8.73		\$4.14	<a href="#">\$0.69</a>		
101	10/25/2017	WD	<a href="#">Blue</a>		2.50	1.00	5,400			0%		2	600,000			1.000E+14	5.00	1.50	0.50	0.100	\$44.99	\$44.99	\$59.84	\$59.84	\$11.97		\$0.77	<a href="#">\$0.77</a>		
102	8/13/2017	WD	<a href="#">Blue</a>		2.50	2.00	5,400			0%		2	600,000			1.000E+14	5.00	1.70	0.80	0.200	\$141.99	\$71.00	\$188.85	\$94.42	\$18.88		\$1.07	<a href="#">\$0.54</a>		
103	10/19/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	1.00	7,200			33%	184	5	600,000	550	2,000,000	1.000E+15		8.10	5.90		\$74.99	\$74.99	\$74.99	\$74.99	\$15.00		\$6.95	<a href="#">\$6.95</a>		
104	10/29/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	2.00	7,200			33%	200	5	600,000	550	2,000,000	1.000E+15		8.10	5.90		\$119.99	\$60.00	\$119.99	\$60.00	\$12.00		\$6.95	<a href="#">\$3.47</a>		
105	10/11/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	4.00	7,200			33%	201	5	600,000	550	2,000,000	1.000E+15		9.00	7.00		\$164.00	\$41.00	\$164.00	\$41.00	\$8.20		\$8.11	<a href="#">\$2.03</a>		
106	10/11/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	6.00	7,200			33%	226	5	600,000	550	2,000,000	1.000E+15		9.30	7.10		\$234.99	\$39.17	\$234.99	\$39.17	\$7.83		\$8.26	<a href="#">\$1.38</a>	X GIB NAND Cache	
107	11/1/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	8.00	7,200			33%	205	5	600,000	550	2,500,000	1.000E+15		7.20	5.10		\$339.99	\$42.50	\$339.99	\$42.50	\$8.50		\$6.05	<a href="#">\$0.76</a>	<a href="#">Helium filled</a>	
108	11/1/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	10.00	7,200			33%	249	5	600,000	550	2,500,000	1.000E+15		7.10	5.00		\$409.99	\$41.00	\$409.99	\$41.00	\$8.20		\$5.94	<a href="#">\$0.59</a>	<a href="#">Helium filled</a>	
109	10/11/2017	WD	<a href="#">Gold Enterprise</a>	NAS	3.50	12.00	7,200			33%	255	5	600,000	550	2,500,000	1.000E+15		7.00	5.00		\$539.99	\$45.00	\$539.99	\$45.00	\$9.00		\$5.92	<a href="#">\$0.49</a>	<a href="#">Helium filled</a>	
110	8/14/2017	WD	<a href="#">Red NAS</a>	NAS	2.50	0.75	5,400			0%	144	3	600,000	180	1,000,000	1.000E+14	5.00	1.40	0.60	0.200	\$54.99	\$73.32	\$67.09	\$89.45	\$17.89		\$0.83	<a href="#">\$1.11</a>		
111	8/14/2017	WD	<a href="#">Red NAS</a>	NAS	2.50	1.00	5,400			0%	144	3	600,000	180	1,000,000	1.000E+14	5.00	1.40	0.60	0.200	\$72.99	\$72.99	\$89.05	\$89.05	\$17.81		\$0.83	<a href="#">\$0.83</a>		
112	10/11/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	1.00	5,400			0%	150	3	600,000	180	1,000,000	1.000E+14	14.40	3.30	2.30	0.400	\$59.99	\$59.99	\$73.19	\$73.19	\$14.64		\$2.74	<a href="#">\$2.74</a>		
113	10/11/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	2.00	5,400			0%	147	3	600,000	180	1,000,000	1.000E+14	20.76	4.10	2.70	0.400	\$84.99	\$42.50	\$103.69	\$51.84	\$10.37		\$3.27	<a href="#">\$1.63</a>		
114	10/11/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	3.00	5,400		8.90	0%	147	3	600,000	180	1,000,000	1.000E+14	20.76	4.10	2.70	0.400	\$109.99	\$36.66	\$134.19	\$44.73	\$8.95		\$3.27	<a href="#">\$1.09</a>		
115	10/29/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	4.00	5,400			0%	150	3	600,000	180	1,000,000	1.000E+14	21.00	4.50	3.30	0.400	\$127.99	\$32.00	\$156.15	\$39.04	\$7.81		\$3.88	<a href="#">\$0.97</a>		
116	9/30/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	5.00	5,400			0%		3	600,000	180	1,000,000	1.000E+14	21.00	5.30	3.40	0.400	\$262.00	\$52.40	\$319.64	\$63.93	\$12.79		\$4.14	<a href="#">\$0.83</a>		
117	10/28/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	6.00	5,400			0%	175	3	600,000	180	1,000,000	1.000E+14	21.00	5.30	3.40	0.400	\$199.99	\$33.33	\$243.99	\$40.66	\$8.13		\$4.14	<a href="#">\$0.69</a>		
118	10/19/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	8.00	5,400			0%	178	3	600,000	180	1,000,000	1.000E+14	21.48	6.40	5.20	0.700	\$254.99	\$31.87	\$311.09	\$38.89	\$7.78		\$5.96	<a href="#">\$0.75</a>	<a href="#">Helium filled</a>	
119	10/31/2017	WD	<a href="#">Red NAS</a>	NAS	3.50	10.00	5,400			0%	210	3	600,000	180	1,000,000	1.000E+14	21.48	5.70	2.80	0.500	\$349.99	\$35.00	\$426.99	\$42.70	\$8.54		\$3.70	<a href="#">\$0.37</a>	<a href="#">Helium filled</a>	
120	10/11/2017	WD	<a href="#">RED NAS Pro</a>	NAS	3.50	2.00	7,200			33%	164	5	600,000	300	1,000,000	1.000E+15	22.80	7.80	6.00	1.400	\$120.99	\$60.50	\$120.99	\$60.50	\$12.10		\$6.97	<a href="#">\$3.48</a>		
121	9/23/2017	WD	<a href="#">RED NAS Pro</a>	NAS	3.50	3.00	7,200			33%		5	600,000	300	1,000,000	1.000E+15	22.80	8.60	6.50	0.600	\$209.99	\$70.00	\$209.99	\$70.00	\$14.00		\$7.58	<a href="#">\$2.53</a>		
122	10/11/2017	WD	<a href="#">RED NAS Pro</a>	NAS	3.50	4.00	7,200			33%	202	5	600,000	300	1,000,000	1.000E+15	21.48	9.10	7.10	1.000	\$174.99	\$43.75	\$174.99	\$43.75	\$8.75		\$8.22	<a href="#">\$2.05</a>		
123	4/17/2017	WD	<a href="#">RED NAS Pro</a>	NAS	3.50	5.00	7,200			33%		5	600,000	300	1,000,000	1.000E+15	22.80	10.60	7.40	1.600	\$259.99	\$52.00	\$259.99	\$52.00	\$10.40		\$8.81	<a href="#">\$1.76</a>		
124	10/20/2017	WD	<a href="#">RED</a>																											

Disk Price  
Performance Analysis

Type	NAS
FormFactor	3.50
Warnty	5
NAS Drives Avg Cost By Size Per Year	
Row Labels	Average of \$ TB/year
0.90	\$0.00
1.00	\$11.67
2.00	\$15.83
4.00	\$9.56
5.00	\$15.26
6.00	\$6.71
8.00	\$6.35
10.00	\$6.22
12.00	\$9.00
Avg By Size	\$9.14

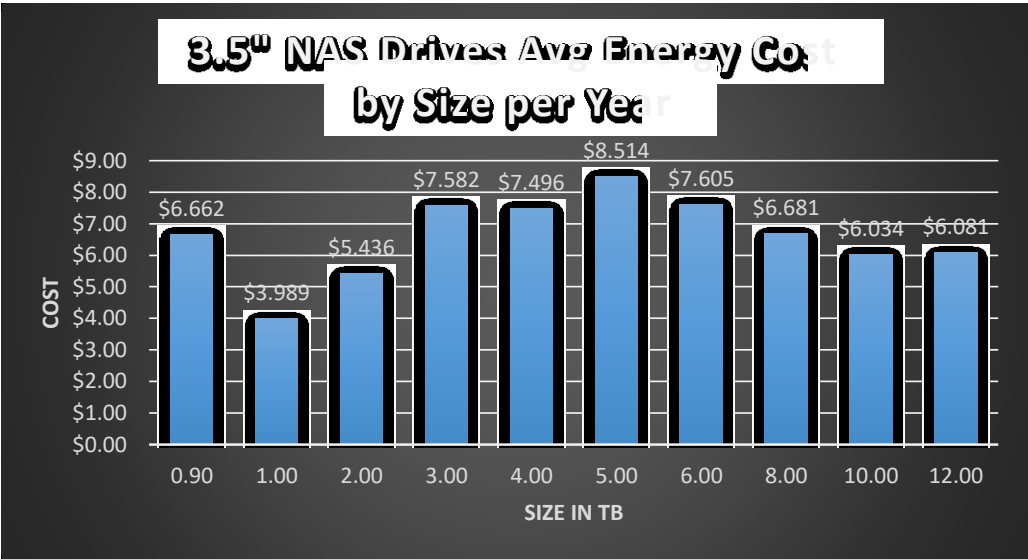


Type	NAS
FormFactor	3.50
Warnty	5
Avg Energy Cost by Size per TB per Year	
Row Labels	Cost per TB per year
0.90	\$7.402
1.00	\$3.989
2.00	\$2.718
3.00	\$2.527
4.00	\$1.874
5.00	\$1.703
6.00	\$1.268
8.00	\$0.835
10.00	\$0.603
12.00	\$0.507
Average	\$1.699

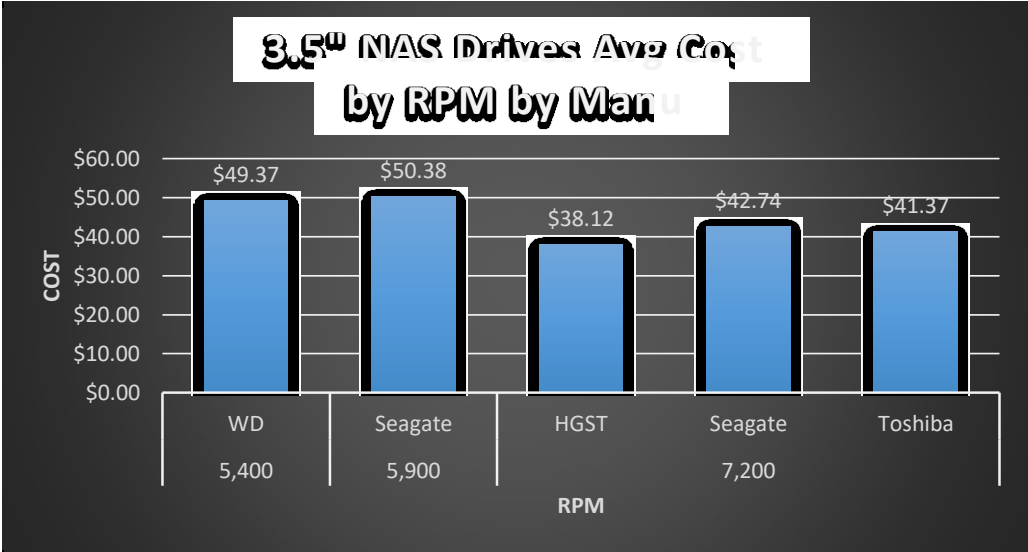


Disk Price  
Performance Analysis

Type	NAS
FormFactor	3.50
Warnty	5
Avg Energy Cost by Size per Year	
Row Labels	Average of Energy\$year
0.90	\$6.662
1.00	\$3.989
2.00	\$5.436
3.00	\$7.582
4.00	\$7.496
5.00	\$8.514
6.00	\$7.605
8.00	\$6.681
10.00	\$6.034
12.00	\$6.081
Average	\$6.521



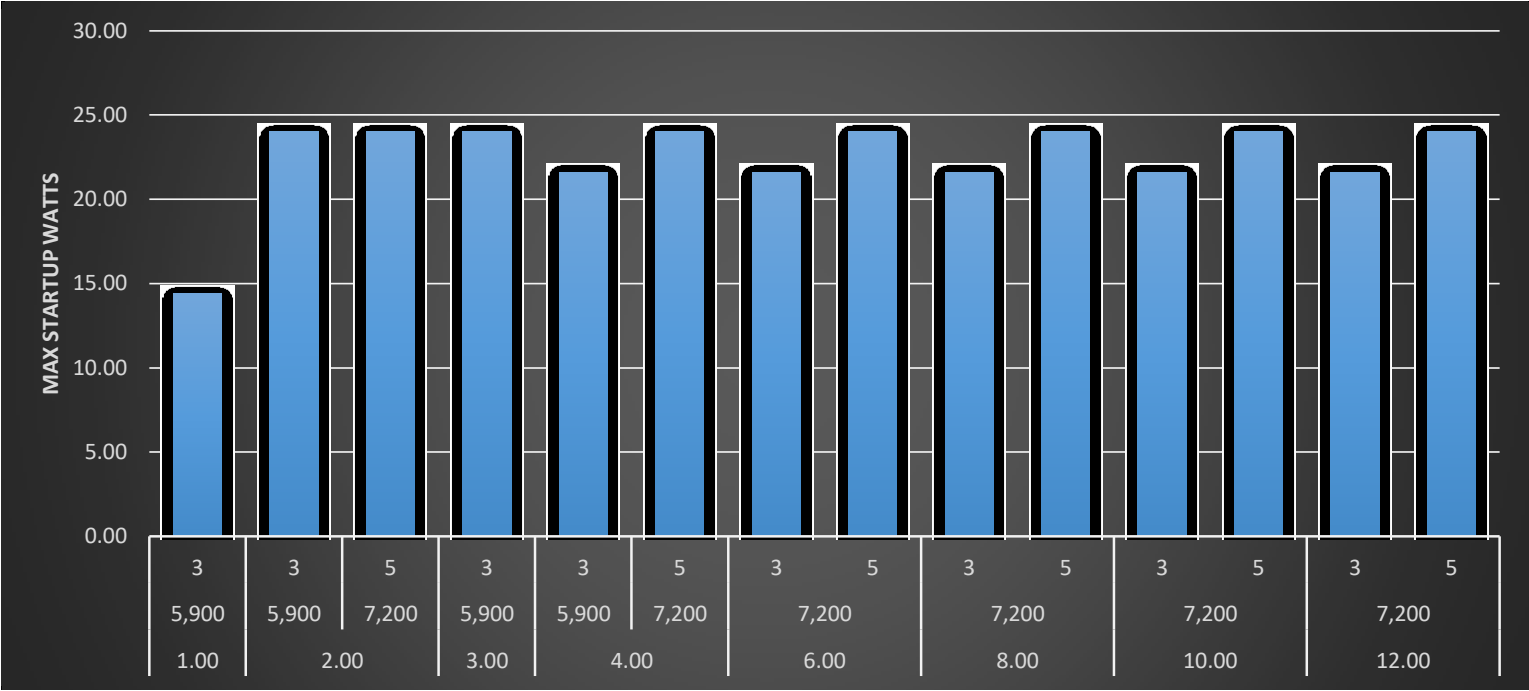
Type	NAS
FormFactor	3.50
Warnty	3
3.5" NAS Drives Avg Cost by RPM by Manufacturer	
Row Labels	Average of \$PerTB
5,400	\$49.37
WD	\$49.37
5,900	\$50.38
Seagate	\$50.38
7,200	\$40.69
HGST	\$38.12
Seagate	\$42.74
Toshiba	\$41.37
Grand Total	\$45.39



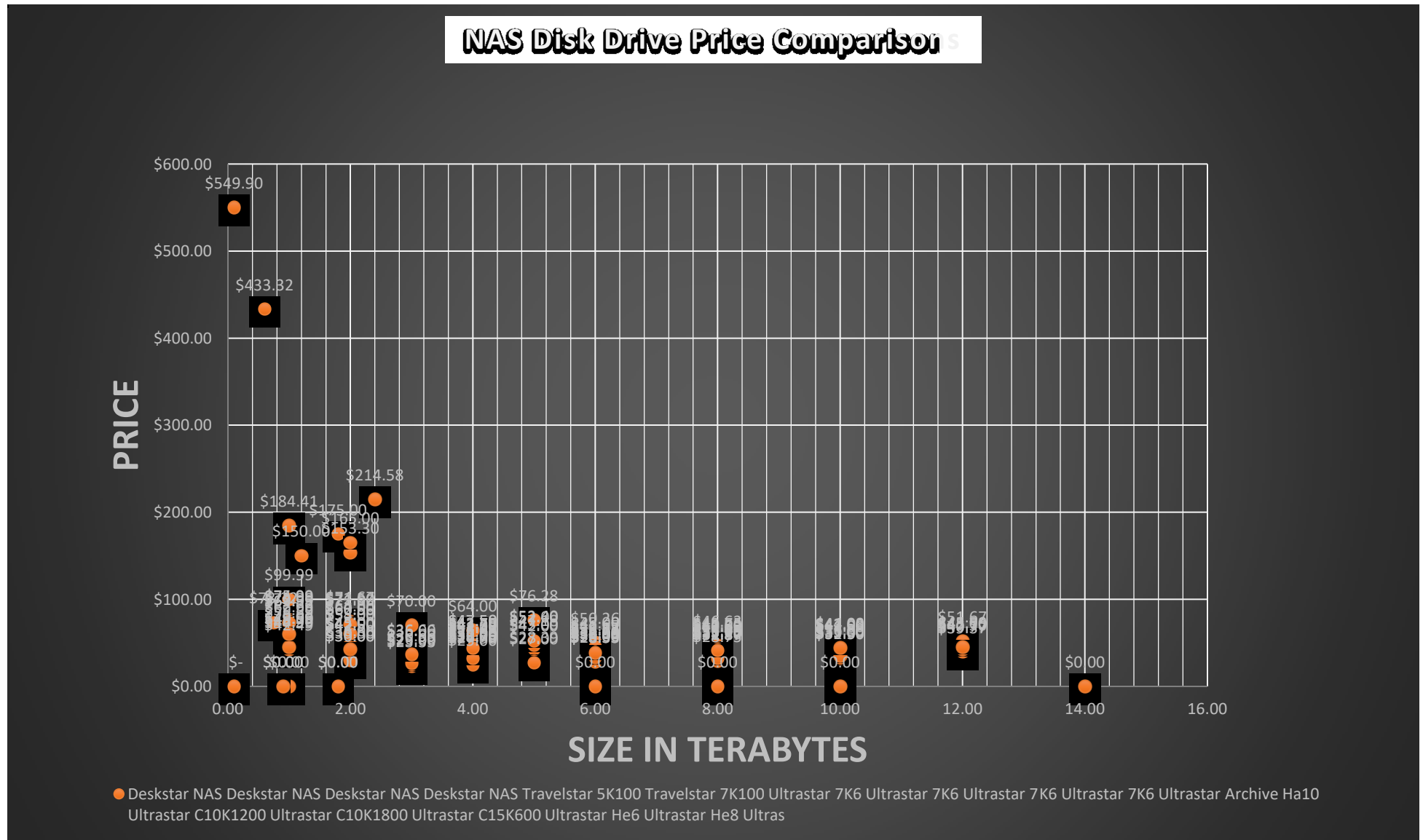
Disk Price  
Performance Analysis

Type	NAS
FormFactor	3.50
Manu	Seagate
MTBF	(Multiple Items)

Row Labels	Average of MaxStartupWatts
1.00	14.40
5,900	14.40
3	14.40
2.00	24.00
5,900	24.00
3	24.00
7,200	24.00
5	24.00
3.00	24.00
5,900	24.00
3	24.00
4.00	22.80
5,900	21.60
3	21.60
7,200	24.00
5	24.00
6.00	22.80
7,200	22.80
3	21.60
5	24.00
8.00	22.80
7,200	22.80
3	21.60
5	24.00
10.00	22.80
7,200	22.80
3	21.60
5	24.00
12.00	22.80
7,200	22.80
3	21.60
5	24.00
Grand Total	22.46



These are incomplete at thi time...



Date	Manu	Model	Type	SizTB	RPM	AvgLatency	SeekT	PerfCmp	XferRate	Warnty	CycleCnt	WorkLoad	MTBF	RErrRate	kStartupW	Watts Activ	Watts Idle	attsStand	Cost	\$ TB	\$+Warr	\$PerTB	\$ TB/year	hp \$/Perf/	\$energy\$year	gy\$yearPe	Notes
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NAS

10

>100

\$2,064.56 Mean  
\$375.09 Avg  
\$324.99 Min  
\$440.77 Max  
8 Qty