

Hard Drive Reliability Update: September 2014

Backblaze (/)

Menu

September 23, 2014 by Brian Beach (<https://www.backblaze.com/blog/author/brianb/>)



(<https://www.backblaze.com/blog/wp-content/uploads/2014/09/blog-drive-study.jpg>)

For the most recent hard drive reliability (<https://www.backblaze.com/blog/backblaze-hard-drive-stats-q1-2020/>) statistics, as well as the raw hard drive test data, visit Hard Drive Data and Stats (<https://www.backblaze.com/b2/hard-drive-test-data.html>).

At Backblaze we now have 34,881 drives and store over 100 petabytes (<https://www.backblaze.com/blog/400-petabytes-cloud-storage/>) of data. We continually track how our disk drives are doing, which ones are reliable, and which ones need to be replaced.

I did a blog post back in January, called "What Hard Drive Should I Buy?" (<https://www.backblaze.com/blog/what-hard-drive-should-i-buy/>) It covered the



(<https://www.backblaze.com/blog/what-hard-drive-should-i-buy/>) it covered the reliability of each of the drive models that we use. This month, I'm updating those numbers and sharing some surprising new findings.

Reliability of Hard Drive Brands

Losing a disk drive at Backblaze is not a big deal. Every file we back up is replicated across multiple drives in the data center. When a drive fails, it is promptly replaced, and its data is restored. Even so, we still try to avoid failing drives, because replacing them costs money.

We carefully track which drives are doing well and which are not, to help us when selecting new drives to buy.

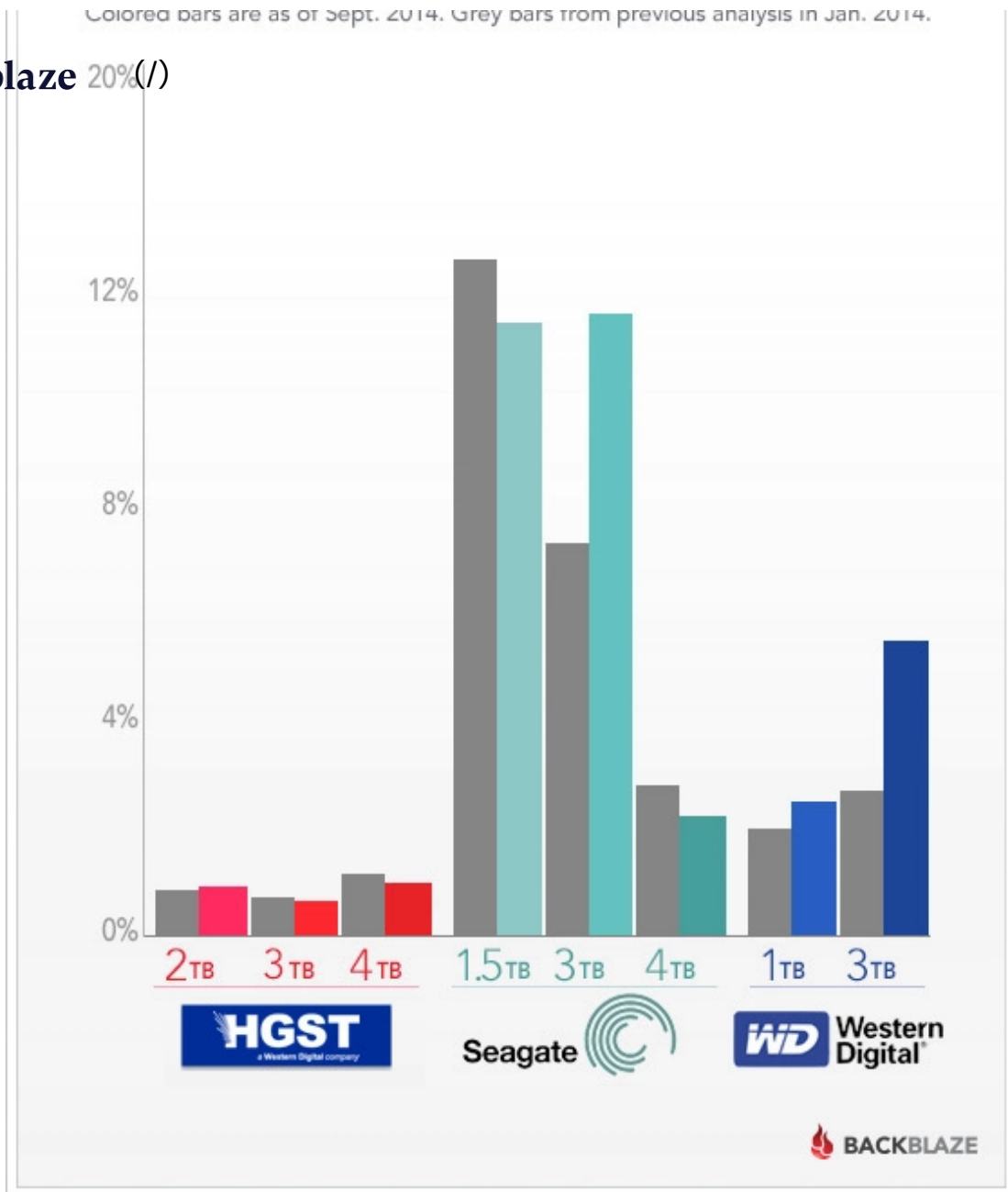
The good news is that the chart today looks a lot like the one from January, and that most of the drives are continuing to perform well. It's nice when things are stable.

The surprising (and bad) news is that Seagate 3TB drives are failing a lot more, with their failure rate jumping from 9% to 15%. The Western Digital 3TB drives have also failed more, with their rate going up from 4% to 7%.

In the chart below, the grey bars are the failure rates up through the end of 2013, and the colored bars are the failure rates including all of the data up through the end of June 2014.

Hard Drive Annual Failure Rate

Colored bars are as of Sept. 2014. Grey bars from previous updates to Jan. 2014.



(<https://www.backblaze.com/blog/wp-content/uploads/2014/09/blog-fail-drives-manufactureX.jpg>)

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You can see that all the HGST (formerly Hitachi) drives, the Seagate 1.5TB and 4TB, and Western Digital 1TB drives are all continuing to perform as well as they were before. But the Seagate and Western Digital 3TB drives failure rates are up quite a bit.



It may be that those drives are less well-suited to the data center environment. Or it could be that getting them by drive farming (https://blog.backblaze.com/2012/10/09/backblaze_drive_farming) and removing them from external USB enclosures caused problems. We'll continue to monitor and report on how these drives perform in the future.

Should we switch to enterprise drives

(<https://www.backblaze.com/blog/enterprise-drive-reliability/>)?

Assuming we continue to see a failure rate of 15% on these drives, would it make sense to switch to "enterprise" drives instead?

There are two answers to this question:

1. Today on Amazon, a Seagate 3TB "enterprise" drive costs \$235 (<https://www.amazon.com/SEAGATE-Constellation-ST3000NM0033-SATA3SATA-Enterprise/dp/B00FW3M6EI/>) while a Seagate 3TB "desktop" drive costs \$102 (<https://www.amazon.com/Seagate-Desktop-3-5-Inch-Internal-ST3000DM001/dp/B005T3GRLY>). Most of the drives we get have a three year warranty, making failures a non-issue from a cost perspective for that period. However, even if there were no warranty, a 15% annual failure rate on the consumer "desktop" drive and a 0% failure rate on the "enterprise" drive, the breakeven would be 10 years, which is longer than we expect to even run the drives for.
2. The assumption that "enterprise" drives would work better than "consumer" drives has not been true in our tests. I analyzed both of these types of drives in our system and found (<http://blog.backblaze.com/2013/12/04/enterprise-drive-reliability/>) that their failure rates in our environment were very similar—with the "consumer" drives actually being slightly *more* reliable.

Detailed Reliability of Hard Drive

(<https://www.backblaze.com/blog/life-and->



times-of-a-backblaze-hard-drive/) Models

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This table shows the detailed breakdown of how many of which drives we have, how old they are on average, and what the failure rate is. It includes all drive models of which we have at least 200. A couple of models are new to Backblaze and show a failure rate of “n/a” because there isn’t enough data yet for reliable numbers.

Number of Hard Drives by Model at Backblaze

(<https://www.backblaze.com/blog/best-hard-drive-q4-2014/>)

Seagate Desktop HDD.15

(<https://www.backblaze.com/blog/best-hard-drive-q4-2014/>)

(ST4000DM000)

4TB

9619

0.6

3.0%

HGST Deskstar 7K2000

(HGST HDS722020ALA330)

2TB

4706

3.4

1.1%

HGST Deskstar 5K3000

(HGST HDS5C3030ALA630)

3TB

4593

2.1

0.7%

Seagate Barracuda 7200.14

(ST3000DM001)

(<https://www.backblaze.com/blog/3tb-hard-drive-failure/>)

3TB

3846

1.9

15.7%

HGST Megascale 4000.B

(HGST HMS5C4040BLE640)

4TB

2884

0.2

n/a

HGST Deskstar 5K4000

(HGST HDS5C4040ALE630)

(<https://www.backblaze.com/blog-smart-stats-2014-8.html>)

4TB

2627

1.2

1.2%

Seagate Barracuda LP

(ST31500541AS)

1.5TB

1699

4.3

9.6%

HGST Megascale

(<https://www.backblaze.com/blog/hard-drive-reliability-q1-2015/>)



HGST Deskstar 7K3000

(HGST HDS723030ALA640)

3TB

1022

2.6

1.4%

Western Digital Red

(WDC WD30EFRX)

3TB

776

0.5

8.8%

Western Digital Caviar Green

(WDC WD10EADS

(<https://www.backblaze.com/blog-smart-stats-2014-8.html>))

1TB

476

4.6

3.8%

Seagate Barracuda 7200.11

(ST31500341AS)

1.5TB

365

4.3

24.9%

Seagate Barracuda XT

(ST33000651AS)

3TB

318

2.2

6.7%

We use two different models of Seagate 3TB drives. The Barracuda 7200.14 is having problems, but the Barracuda XT is doing well with less than half the failure rate.

There is a similar pattern with the Seagate 1.5TB drives. The Barracuda 7200.11 is having problems, but the Barracuda LP is doing well.

Summary


While the failure rate of Seagate and Western Digital 3TB hard drives has started to rise, most of the consumer-grade drives in the Backblaze data center are continuing



rise, most of the consumer-grade drives in the Backblaze data center are continuing to perform well, and are a cost-effective way to provide unlimited online backup (<https://www.backblaze.com/>) at a good price.

Notes

September 30, 2014: We were nicely asked by the folks at HGST to replace the name Hitachi with the name HGST given that HGST is no longer a Hitachi company. To that end, we have changed Hitachi to HGST in this post and in the graph.

 print



About

Brian Beach (<https://www.backblaze.com/blog/author/brianb/>)

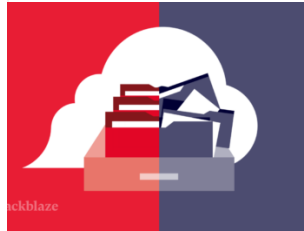
Brian has been writing software for three decades at HP Labs, Silicon Graphics, Netscape, TiVo, and now Backblaze. His passion is building things that make life better, like the TiVo DVR and Backblaze Online Backup.

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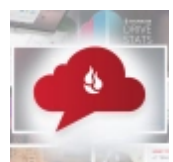
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(<https://www.backblaze.com/blog/backblaze-mobile-for-ios-8/>)

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90 Comments



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Name

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MemphisIsaac

8 years ago

What is meant by "HGST (formerly Hitachi)" needs clarifying. It's my understanding that Hitachi sold superior results in your January reliability post for Hitachi, I thought that was why you were also sharing the update. However, it shows none. Furthermore, if I'm understanding the above sale correctly, more recent HGST results are a hodge-podge of older Hitachi-based drives and newer WD-based ones? So, can Toshiba (which I thought would more truly be "formerly Hitachi" rather than HGST) 3.5 inch drives?

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Ryan

→ MemphisIsaac

8 years ago

Perhaps I can help clear this up. I used to work for HGST during the WD transition. HGST had strong footing in the enterprise level SAS and consumer SATA products (and still very much so). Customers knew us as "HGST". So, the decision was made to keep the HGST acronym and make it a Western Digital Company". Customers still know they are dealing with HGST, the same as Toshiba and we do still develop consumer SATA products, although, the enterprise stuff like IBM Deskstar products and were some of the most reliable drive on the market.

We operated very much like our own HDD company after the merge. We actually never had a company was HR and the benefits, which sometimes didn't align, haha. While the company was still using the HGST and WD brands. Just think of it as a name tweak, and nothing more.

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dosmastr

→ Ryan

7 years ago

Care to comment on the 75GXP drives?

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Cookie Sunburn

→ MemphisIsaac

8 years ago edited

I was wondering the same thing, based on reports of people claiming "Toshiba took over"

Two things. Wikipedia states "To address the requirements of regulatory agencies in the US, WD produced 3.5 inch drives for the"

This probably produces 3,5

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C

Cookie Sunburn 8 years ago edited

This topic also really confused me. So as far as I understand you correctly, th
a few factories have been given to Toshiba? Because some articles say the 3
Research and Knowledge etc. for me. Important factor! Beside this, I still buy

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fUjiMaNia

8 years ago

@Backblaze : Thank you for sharing this information. No regular end-user or even manufacturers w

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Shaun Forsyth

8 years ago

Love the information guys but this is a little tantamount to scaremongering, without other informat
suspect the average life of a Seagate 3TB drive (that gets over the initial 3-4 weeks failure zone) to

I urge you to provide some more detail from the S.M.A.R.T data (as averages)

- Start/Stop Count
- Spin Retry Count
- Power Cycle Count
- Power-On Hours

This will at least allow us to compare the data centre style use to home user use of the drives.

Would also be good to see why and how you decide a drive has failed, do you use S.M.A.R.T to pre

Either way, I enjoy the posts and please keep them coming.

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k_man

Shaun Forsyth

8 years ago

Scaremongering? Don't you think that is a little harsh. These are comparative results like
But there is not need to be alarmed about these numbers. Well, unless you work for Sea
In my case I haven't used Seagate (I use Hitachi instead) for years because I had been s

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Shaun Forsyth

k_man 8 years ago edited

A little harsh maybe, but not everyone is as well informed or understand how

I do have a, hmmm.... dreaded, seagate 2TB drive in my personal desktop coi

for average users these drives should have no issues. I would hate for people subjected to.

On the other hand, I read these great posts because I too have servers in data. So its a great source of knowledge for me, but I shouldn't always use myself

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Nick Corcodilos → Shaun Forsyth ⌚ 8 years ago

Yah, well, my Seagate ST2000DM001 2TB drive just bricked after risk another one? When Seagate used to have 3 and 5 year warran any more.

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Sgt Pinback → Nick Corcodilos ⌚ 8 years ago

I have a few of the same model, ST2000DM001 - my first one died were seagate - and looking at my dead pile of 5 drives over the las

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Nick Corcodilos → Sgt Pinback ⌚ 8 years ago edited

Well, I decided to give Seagate one more try. Replaced the dead M with them. While WD seems to fare better, I think drives are now s have to backup your backup drives.

UPDATE 10/15: The Seagate is still going. No problems. Probably

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Pete Lorenzo → Nick Corcodilos ⌚ 7 years ago

I disagree. Some technologies are continuing to drop in price, but the best deal I can find is actually \$30 more than it was back then

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Mike Adams → Shaun Forsyth ⌚ 8 years ago

I would replace that Seagate immediately. I had a contract job and at all the date codes and they seemed to die in the 2 to 3 year spa

10 0 • Reply • Share ›



Matthew Austin → Shaun Forsyth ⌚ 8 years ago

I manage an IT help desk at a small college and let me tell you I'm brought in to our help desk dead and just yesterday I decided to ev increasing steadily and throwing SMART errors in StableBit Drives

So that anecdotal evidence, COMBINED with Backblaze noticing tl

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S

SLS → Matthew Austin ⌚ 8 years ago

I have had this reallocated sector issue with most our 1TB and 2TB drives. Eventually all will do this, it's just a matter of time. Management di

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 Menu**phonebanshee** → Matthew Austin ⌚ 8 years ago

I ran into this article because I just had a ST3000DM001 die on me

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JA

Jim Anderson → Shaun Forsyth ⌚ 8 years ago

I'm with the rest of them when it comes to Seagate drives. In the 1 year warranty to 5 years you knew it was bound to happen.

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TR

Tipografia Romania libera → Shaun Forsyth ⌚ 8 years ago

Make a full backup pronto.

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PN

Peter Novák → Shaun Forsyth ⌚ 8 years ago

I have been using Seagate Barracuda drives for 10 years and until my first 1.5TB drive died out almost instantly and without warning

The third drive is faring moderately, I might say, because it has two thirds of its capacity for another 2000 hours available, there is already the third drive itself (SMART), they are instead being exposed as BAD to OS sectors. So I'm looking for immediate replacement. And frankly, I d

Another 3TB Seagate has died unexpectedly after mere 1 year, and

Need to say, these drives have been almost always ON, that is not nothing for most of day, and some 150GB read and write on daily

On the other hand, the older models (80, 120, 300GB) fared much

I see two typical patterns of failure.


1, Drive begins dropping from SATA bus. In this scenario, backup is difficult, and in a few days the drive will definitely die out. I assume

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**Keirnoth** → Peter Novák ⌚ 8 years ago

I'll back this person's post about the 500 GB Seagate. Anecdotal evidence is strong. I had to resort to using it as a boot drive because the low c

strong. I had to resort to using it as a boot drive because the low c

Got the Seagate 3TB mentioned in this post from a 2013 Ann  Menu
OS just freezes and files read VERY slowly from the drive. Drive la:
dying after 1 year. Got the infamous 1.5TB 7200.11 awhile back at
properly).

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Bernald Solano

→ Keirnoth ⌚ 8 years ago

The 7200.9 series are good, actually really good actually, when I s

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PN

Peter Novák

→ Peter Novák ⌚ 8 years ago

Correction: The still operational 1,5 TB has passed only 2,8 years c

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Lieane

→ Shaun Forsyth ⌚ 6 years ago

Segate 2TB drive now starting to fail just into it's 2nd year after

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Brandon Edwards

→ Shaun Forsyth ⌚ 8 years ago

got 2x seagate 2.5" 500gb external paperweights myself. They we

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MF

Marcus Franulovich

→ Shaun Forsyth ⌚ 8 years ago

It isn't scaremongering. Home user here with 8 Seagate 3tb drives in a home NAS envirc
like this. The drives are rubbish. I wish this article had been out when I bought them.. co

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Metaxis

→ Shaun Forsyth

⌚ 8 years ago

You should read the seminal google paper on disk failure trends:

<http://static.googleusercontent.com/...>

It shows that SMART only had relevant non-zero counters for 56% of failed drives, thus c

However, for drives that had non-zero SMART parameters relevant to predicting failure ((one). That's a huge deal. The research finds that if any of those parameters are non-zer

Other surprising results from the paper are that, after infancy, utilization rate is not storor
failure rate compared to cool or very high temps.

Though drive models and characteristics have changed plenty since 2007, many of thes

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Edward Iskra

→ Metaxis

🕒 8 years ago

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The paper is from 2007, but their data was from 2005 and 2006, and reflects year-old technology! The findings are more dated than you think.

"The disks are a combination of serial and parallel ATA consumer-grade hard study were put into production in or after 2001. The population contains several models. The data used for this study were collected between December 2001

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MaryReilly

→ Shaun Forsyth

🕒 7 years ago

Not scaremongering. I have 20 Seagate 3TB drives and in 2 years, 5 have failed completely. I have 15 remaining drives for HGST drives. The added expense is worth the reduced headache and

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Haravikk → Shaun Forsyth

🕒 8 years ago

I'm not sure about scare-mongering; you're right that it can't easily be used to make conclusions about hard drive failure. It's just trundling around on the internet now and then or playing a few games.

That said, I've lost faith in Seagate entirely; I had a few Barracuda drives in one of my old computers, no sign of faults in S.M.A.R.T.), but newer drives have been abysmal (two lasted just a few

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TR

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→ Shaun Forsyth

🕒 8 years ago

1. What formula did you use to get this 10 years average lifespan?

2. The problem is: I don't use average hard disks, I use a particular one. And one external drive. I constantly and consistently check SMART data just to make sure I will not have sudden

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Shaun Forsyth

→ Tipografia Romania libera

🕒 8 years ago

Average Life of the Seagate 3TB (ST33000651AS) according to the graph above is 2.2, in backblaze that would be $(24 \times 365) \times 2.2 = 19272$ power on hours, home user desktop as mentioned in my post I would expect to have an on time on average per day of around 5 hours, (I know as a technical person, my machine is on all the time, but its sleeping, I use it around 2.5 to 6 hours a day on average). so $19272 / 5 = 3854.4$ days, then $3854.4 / 365 = 10.56$ years. Which is not bad, since in my first post it was a guess based on when I used to collect and service thousands of computers from business which went defunct.

I am going to take

away that you believe the smart data is not a good indicator of a drives imminent failure. However this is not what I was looking for. I was

TR

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→ Shaun Forsyth 8 years ago

No way, the failure rate of a mechanical drive is not linear after the

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Lenin ✓ commun

→ Shaun Forsyth 6 years ago

It is my personal theory that drives fail due to spin-up and spin-down

I only have anecdotal evidence of that but it's pretty strong anecdotal evidence (I've had a drive fail on me),.

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dosmastr

→ Shaun Forsyth

8 years ago

Are these drives ever doing more than an initial Start?

if its a cloud cluster the drives probably never stop, power cycle or have to spin retry. Possibly

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Dilbert

→ Shaun Forsyth

8 years ago

The "Average Age" column in their table is the average age of these disks at the time of failure, not higher for those drives.

So, you have a *single* Seagate in your PC which is working fine, and you conclude that that's the average user?

BackBlaze has *hundreds* of these drives working perfectly fine. With 15.7% failure rate over 5 years.

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Snuffo Laughagus

→ Shaun Forsyth 8 years ago

I would have to disagree from personal experience from the past 5 years, Shaun.

Among other that I don't remember, I have owned drives by IBM (1994), Quantum (1994), (2002), Toshiba (2006), Seagate (2010), WD (2010), Iomega EGO (2011) Samsung (2011)

Out of all the drives mentioned in this list, the only that has failed in normal use and for no reason (eventually stopped spinning). And I was able to retrieve all the data on it after freezing the drive and sending it to a data recovery service. The 1996 Toshiba died in a similar manner after the laptop fell during an attempt to

The 1998 Seagate with its fluid bearing, a revolutionary concept at the time, super silent and

The 1996 Quantum "Fireball" died after a major power surge actually FRIED the motherboard and everything in the area, computers, fax machines, TVs, microwave ovens...)

The Samsung drives I use for a backup show zero issues after 3 years used as backup (WD Elements I am testing now. However, one of the Samsungs failed after 2 weeks, new

The 2010 WD external fell on the floor a couple of times (OK, it's carpeted and it fell only

The Iomega EGO fell several times on a carpeted floor from my desk as well - no issues,

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PR

Peter Rajdl

→ Shaun Forsyth

🕒 8 years ago

Last year I sold a FreeNas server with 5x Seagate 3tb drives. Within 3 months one drive same drives also suffered a failure.

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David Wujcik

→ Peter Rajdl

🕒 8 years ago

That's what you get for putting a SQL server on terrible spinning media...

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AC

Alex Chen

🕒 8 years ago

Do you change default drive parameters in any way? For example, I know WD green drives have 5 s

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Haravikk

→ Alex Chen

🕒 8 years ago

In a data centre use-case I don't think a WD Green would ever get a chance to sleep, kind They're really not suited to drive array usage.

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AC

Alex Chen

→ Haravikk

🕒 8 years ago

The web is full of stories of WD greens dying within weeks of server use, until

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Matt Buford

→ Haravikk

🕒 8 years ago

Well, I'm doing home NAS use and not DC, but...

From what I understand, the WD head parking issue was limited to specific models with red drives having issues with too much head parking too.

I've had 9 WD10EADS 1TB green drives (the same ones in this Backblaze report settings, and I have not had any issues. It seems that at least this model of green 47,800 power on hours, 23 start-stop-count, 23 load cycle count, and 21 power

somehow I parked the heads twice (outside of power cycles) in 5.5 years.

Back when I bought them, 10 watts active was the norm for drives and these slower (less wear and tear) and used less power (which also means less heat with these drives. If I were ready to upgrade, I would probably go with greens winning combination for my needs.

Back in 2009, WD red didn't exist. There was their normal line of drives at 10,000 RPM very similar to green ("intellipower" RPM) and have almost identical power usage.

If I were in the market to upgrade, I'd have to do some more research to be sure.

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Haravikk → Matt Buford 8 years ago

Hmm, strange, I have two WD Green 1.5tb drives and a single 1tb drive. I see 10,000 times a day, indicating a delay of about 5-8 seconds, it's probably been a long time since I bought years apart. I've also seen WD Greens taken from media centers that's largely idle with bursts of streaming.

Clearly not all WD Greens are created equal, so for that reason I don't expect them to have less power consumption than the greens. I guess I just assume keeping them running would be sub-optimal.

That said, I'd still swear by the Reds for noise level; mine are almost silent even with a heap of them in a single system. I just wish I could afford them.

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Matt Buford → Haravikk 8 years ago

Because it was never a problem for me I never bothered checking, but I can check now.

```
drivespace idle3-tools-0.9.1 # ./idle3ctl -g /dev/sdb
Idle3 timer set to 80 (0x50)
```

According to what I've read, that translates to 8 seconds. I wonder how long 8 seconds is a long time for no IO at all. In my case, I have the OS booting and not streaming a video. A quick check of my disks using "vmstat -d" shows that, in all the years I've used these disks, I never had any 8 second idle times. I was installed before any server type apps were set up, or doing much of anything.

Anyway, I guess for me, cost matters (especially when buying 5-10 drives). I probably still lean toward starting with green drives for no other reason than to save money or give in and go with red. Of course, if reds happened to be the same price as greens, I'd go with red.

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herr_akkar

→ Haravikk ⌚ 8 years ago

That means that in a home use scenario where the drive is not in active use :

I have had multiple Greens die on me when left running for a few months.

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Haravikk → herr_akkar ⌚ 8 years ago edited

I was under the impression that greens are intended for infrequent use. WD Greens has changed a lot, so I'm not 100% sure anymore, all I know is (from my experience) that they aren't great for continual usage (unlike WD Reds meanwhile (again, in my experience) are intended for continuous use).

WD Reds meanwhile (again, in my experience) are intended for continuous use.

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Xam

⌚ 8 years ago

And what about WD40EZR? Any data about the 4TB version of WD Green?

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Bill McKenzie

⌚ 8 years ago

If you are looking for the Hitachi HGST 2TB drive above #HGST HDS722020ALA330 don't waste your money on a used one as NEW.

3 0 • Reply • Share ›



Anthony Ally → Bill McKenzie

⌚ 7 years ago

Where do you buy new hgst drives that are truly new?

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