

Chapter 1 : How Much Does a Cloud Weigh? | Mental Floss

The Weight of Rain is a standalone by Mariah Dietz. It is a beautifully written story and there were so many lines worth highlighting. It is a fantastic love story, but also has a lot of heart and a lot of story surrounding the side characters.

The primary compromise is pocket placement as some hand pockets sit high to accommodate a climbing harness or backpack hipbelt. Their performance is often similar to or a little below the weekend hiker category above. The designs do require a few sacrifices, most notably the thinner fabrics being more prone to tearing and sagging and pressing against your skin under heavy rain. You also miss out on a number of features like hand pockets and as many adjustment options for the waist, hood, and wrists. All those sacrifices are well worth it for the ultralight backpacker or climber who needs an emergency shell. The rest may be better suited to look elsewhere. Trail Running Thanks to advances in fabric and membrane technologies, there is a growing market of trail-running jackets that push weights even lower than the ultralight category above. For the trail runner that heads out in any and all conditions, however, the performance for the weight is simply unmatched. Trail-running jackets are super light and offer great performance in wet conditions Waterproof vs. Waterproof jackets have a built-in laminate layer like Gore-Tex or a coating that essentially blocks outside moisture from entering under most conditions. Additionally, they have waterproof taping along the seams on the interior of the jacket. Budget-oriented jackets use fabric to cover non-water resistant zippers You may notice a waterproof rating listed on some outdoor gear websites, represented by a number from 0 to 20,mm or more. This is the amount of water in a 1-inch-diameter vertical tube that the material can withstand without leaking. The test is a strange one: We break down the pros and cons of each below: The benefit of this interior finish is that the mesh found in 2-layer jackets is no longer necessary. Breathability as well as compressibility increases and weight decreases with the design, making this the most popular option for hikers, backpackers, and climbers. This adds a bit of bulk than a comparable 2. Jumping to a 3-layer jacket also involves a significant increase in price, and most often these are big name designs, like Gore-Tex or eVent. The differences in weight are significant: Those extra ounces in a pack can really add up, making an ultralight shell a compelling option. Breathability One of the most sought after features in a waterproof rain jacket is breathability: Generally speaking, the more you spend the more breathable the jacket will be. First, there are the jackets that can stuff into their own pockets. Just turn the pocket inside out, smooch the jacket in, and zip it shut. The other way of looking at packable rain shells is how compressible they truly are. You can just roll it up into its own hood to protect the thinner fabric in your pack. Look to weight as a great indicator of how packable a jacket truly is. Many ultralight and trail-running jackets forego pockets to cut down on weight, while other models sport them in abundance. Almost all rain jackets have hoods included, but some are cut big enough to fit over a helmet and the style of the cinch varies significantly. Keep a close eye on features and try to match them to your intended use and budget. Most ultralight shells go without hand pockets, instead opting for a chest pocket for storage. You often get two hand pockets and a chest pocket either on the inside or outside of the shell , all the better for the little things you need to carry around on a daily basis like a phone or wallet. What you gain in convenience with the hipbelt or climbing harness , you then lose in daily usability. If you plan to climb in your rain jacket, look for one with a helmet compatible hood. These can reach over the top of most climbing helmets for added weather protection. When the wind is blowing, you want a hood that conforms to your head, while retaining enough structure around the sides and the bill that you can still see out. Some manufacturers succeed better than others at this concept. Of the more budget-friendly options, we like the hood design of the Patagonia Torrentshell , which has toggles at the back and front for quick and easy adjustments. We prefer the toggle style for adjusting the back of the hood over a rip-and-stick Velcro tab for its improved performance both styles are pictured below. The benefits of the Velcro style are simplicity and weight: Velcro designs Pit and Side Zips In creating a waterproof jacket specifically designed to keep moisture out, there are natural restrictions on the air being held inside. Enter the pit zip. The ultimate expression of how effective a pit zip can be is the Outdoor Research Foray. The underarm zippers extend all the way down to the hems on either side. Full unzipped, the jacket becomes a poncho. Pit zips on the Outdoor Research Foray Waist Adjustments

DOWNLOAD PDF THE WEIGHT OF RAIN

To give the best seal possible, every rain jacket that we recommend here has some sort of cinch system at the hem. Heavier rain jackets have cinches on each side for a more even fit.

Chapter 2 : The Weight of the World (Instrumental) | Rain For Roots

The Weight of Rain by Mariah Dietz 4 stars!! "You're so afraid to be in the spotlight, you just sit in everyone else's shadow." Mariah Dietz is one of those authors that I "discovered" in the very beginning and I have read and devoured her books one by one.

Mars has lovely imagery, but what do you do with projects that are all numbers? One example is the Kepler space telescope, which launched in Kepler was designed to stare at a small patch of the sky for several years. It tracks more than , stars, looking for small, regular dips in light that might be an orbiting planet passing in front of the star. NASA And it found hundreds of possible planets, all across its field of view, which scientists then worked to confirm. And as new planets were confirmed, the scientists would write a paper: And as these papers came out I would make small graphics. I tried to add some scale by comparing the orbits with the orbit of Mercury, for example. But it still felt very responsive: I was still only showing one planet system at a time. One possibility was to take several of the early discoveries and make a larger graphic explaining how the planets were found and what the dips in light look like. Showing a bit of the data that contains these dips and trying to put the new planets in context with other known planets, like those in our solar system. But in all of these graphics, it seemed like something was missing. But I was only showing a small slice of the data. The data is not hard to find. And so I looked at this and tried to find the smallest subset of data I would need to draw a planet orbiting a star. This was my fairly ugly sketch. And after a few days swearing at my computer trying to learn d3 , I came up with this. But the nice thing about d3 is that, once you put in the work to get here This is the first working draft of the graphic. The graphic tends to get washed out in projectors, so I made a brighter version. I gave a quick video walkthrough, but you can see the actual graphic here: So what are the traps in making a graphic like this? What are some of the things I try to avoid? I think many of the infographics we see are really just counting: And I think that the goal of visualization is not finding elaborate ways to encode information. I try to encode as little as possible. You could imagine taking the same planet data and coming up with any number of geometric shapes to encode it. Maybe the vertical bar is star temperature and the horizontal bars are planet orbits. But to me this feels like imposing a design on the data, and drawing attention to the design more than the data. I want the design to disappear. For example, this diagram has the star numbers on the left, and the planet names " the planet letters " on the right. It looks impressive, but the X-like patterns of connecting lines are meaningless. There are an infinite number of ways of encoding information. Kepler does have a key with four interlocking scales: But I spent a lot of time trying to make them feel intuitive and natural. And most importantly, I try to keep in mind that visualization is not the same thing as explanation. There have been many attempts to use and explain similar data sets, including a lovely piece by Jan Willem Tulp, who is speaking next. And the graphic raised questions when I saw it. For example, what is that big yellow planet near the bottom? But it gave me no way to answer those questions without looking for the data and trying to find the largest planet. I run a script, and it updates itself with any recently-confirmed planets. The last time I updated it this large star appeared, and immediately caught my eye. My first thought was that it was a mistake, so I went to look at the script and the data. The star is expanding and will swallow the planet within about , years. And the star is so big, and the planet so close to it, that sunlight falls on more than half of the planet at once. If the yellow here is the light that Earth receives, the red is the extra area in sunlight.

Chapter 3 : The Best Rain Jackets for Men of | OutdoorGearLab

The Weight of Rain. By Jonathan Corum. Feb. 8, Update: a video of my talk is posted above. Below is a summary of my talk at the second Visualized conference.

It is one of the lightest and most compressible models in our fleet and has been constructed with a stretchy fabric, which is cut to be climbing focuses in that it is harness friendly. The Fineline offers more weather resistance and breathability than most super light or similarly priced models, though we found the Patagonia Storm Racer offered better breathability and similar mobility at a marginally lighter weight. Black Diamond Fineline Analysis and Test Results We researched over 70 potential models before narrowing it down to the 17 finalists that you see in our review. We purchased each model and put each of them through an intensive testing process, which you can learn more about below and in our How We Test article. We tested each jacket by spraying them with hoses, wearing them in the shower, and spending countless hours hiking, climbing, skiing, and backpacking in them. Our findings are reported below. Our review team took each model into the field for real-world performance testing, as well as specific side-by-side comparisons in a more controlled environment AKA a shower, a stationary bike, and pulling hoods over lots of different types of headwear. Our ratings are based on the most critical factors you should you consider when trying to decide which model is best for your needs. Nine of the top rain jackets, ready for our testing. There are three distinct types of jackets here, and one will meet your needs best. Here, Graham Zimmerman is trying to keep it positive in yet another torrential downpour in Torres del Paine, Chile. Value One of the most common concerns we hear from our friends and readers is: Below we clarify what the discrepancies between some of the budget picks and the higher-end options actually are and how they may, or may not, be a factor for you. We also do our best to specifically answer the question in our individual reviews on what you are specifically getting by spending more money on a higher-end option versus a lower end model, and what we found to be marketing and hype. Besides just selecting our favorite overall models, our team also selected the best performing models at different price points. A large part of that has to do with the materials that some of the higher end models use. There is loads of engineering going into Gore-Tex, eVent, and even some proprietary fabrics, and this drives up the overall cost. When it comes to rain jackets, there is almost a direct correlation between price and performance, which is not the case with all products. While not as high-performing as a number of the more expensive models, they performed pretty darn well overall and are no doubt incredibly functional while costing a fraction of the price. As a result in our scoring metrics, this was the most heavily weighted category, at 30 percent. There are many types of waterproof fabrics and treatments that manufacturers use in the jackets we tested, and heaps of laboratory testing has been done to quantify precisely how waterproof each of these specific coated or laminated materials are. However, the critical bit to understand is that all of the products tested are water-resistant enough to use as a rain shell. Rain is not going to penetrate any of the fabrics that any of these jackets are constructed with; however, in a downpour, running water can seek its way in through a pocket zipper, down your wrist when you reach overhead, or where the hood meets your neck and thus the features and design of each model is the most critical part of keeping you dry. All of the models tested feature a waterproof fabric more on what makes a material impervious in our buying advice , that is a shell fabric that is seam-taped after sewing, creating a completely sealed envelope. Obviously, the waterproof material itself is important, but with nearly all manufacturers offering a material that is more than adequate, those jackets which had features that helped keep the rain out and move moisture scored the best. All the models we tested sport a technically waterproof fabric but many are constructed with different materials and characteristics. Garden hose to the face and wrists? The Foray can handle it. All of these jackets do a good job keeping you dry in your average rainstorm. But models with adjustable cuffs and well-designed hood adjustments are superior in howling rainstorms or when working with your hands overhead in the rain. Rain is not going to penetrate any of these fabrics directly; however, in a downpour, running water can seek its way in through a pocket, down your wrist if you happen to reach overhead, or where the hood meets your neck. Besides the real-world use of all of these models, we also stood in a shower for four minutes in each jacket and got a spray

down with the garden hose to help find potentially problematic spots. All contenders have wrist cuffs that can be cinched down on the wrist with Velcro closures, and all hoods sealed well around the face and chin. All the products we tested should keep you dry in a storm. The primary differences in our water resistance metric come from the design of the hood, cuffs, pocket closures, longevity of a models DWR, and pit zips. A well designed hood is one of the most important factors influencing how dry a rain jacket is going to keep you. This result is greatly reduced breathability, a feeling of damp or clamminess, and a slight increase in weighing. In this photo, lead tester paddled over 20 miles in the Broken Islands in non-stop rain. Conversely and generally speaking, we found that the stretchier models needed to be re-treated much more frequently than the ones with minimal or no stretch. Breathability and ventilation are both significant factors in keeping the wearer dry, minimizing how wet they get from their own sweat. It is possible to sweat-out even a t-shirt if working hard enough. All of these multi-layered fabrics are breathable, meaning they allow water vapor to be wicked through the material to the outside, where it can evaporate. Secondly, we also tested and studied how well the ventilation features performed in general, and more importantly, how open we could have the vents while hiking, trail running, and backpacking in the rain. A Note on Breathability Anyone can drench themselves in sweat while wearing too many layers underneath a shell and while working hard or charging uphill. As a result, they are sweating more than necessary and might be needlessly sweating more than the given jacket can handle. Breathability is an important factor when considering shells. Baker, North Cascades, WA. All of the contenders reviewed here allow moisture to pass through them; however, none of them allow an infinite amount of moisture to pass through them, and all have a limit. Set yourself up for success and wear the minimum layers you can get away with while using the vents to maximize the air exchange, dump heat, and allow moisture to escape. Even the most breathable models have a limit on the amount of moisture they are able to pass through. Set yourself up for success by wearing the minimum layers you can get away with. Stripping off the warm Rab Xenon X after break time, with the Marmot Essence ready to continue the action. Air Permeable Fabrics Air permeable is a new buzzword and a technical term that is a feature of many of the new wave of stretchy proprietary waterproof jackets that have recently surged onto the market. A number of models in this review, like the Outdoor Research Interstellar, as seen here, are air permeable. With that said, while most of these models breathe quite well. Air permeable is exactly that; air can pass through the fabric itself. Some people are concerned about this, but for the most part, they feel windproof, and it takes a pretty darn strong breeze to become chilled. Nice features include a microfleece lined zipper and good fitting cuffs. The notable advantages of air permeable fabrics are they do tend to be cooler feeling because there is some air always creeping its way in and out. Most waterproof breathable fabrics require a large temperature difference to work; they need to be warmer on the inside and cooler on the outside, which creates the pressure differential that drives the moisture to move. A majority of waterproof breathable fabrics require a pressure differential from the inside of the jacket to the outside to start breathing. This is generally accomplished by being warmer on the inside of the jacket than the outside. Testing and comparing the breathability of different layers while making a one-day ascent of Mt. Shuksan, with Phil Wadlow shown on the summit here. Q Elite being extremely close feeling. There are a lot of pretty breathable fabrics out there, but in our side-by-side minute stair master tests and in real-world use we found eVent to be the most breathable. Not by lots, but enough to notice. We even found that it was breathable enough that we would get cold faster during breaks. The bottom line is when working or recreating in stormier weather, the more active your endeavors, the more significant the importance of breathability becomes. When it is storming hard and you want to batten down the hatches by closing pit-zips and cinching the hood, a breathable fabric is paramount. Ventilation In lighter drizzle or in the time between cloudbursts when you want to continue wearing your jacket for wind protection or as part of your layering system, ventilation can be a valuable way to move moisture and dump heat. Pit zips, various other zippered ventilation designs and mesh-lined pockets all have their place. We love the Foray. Side-by-Side Hiking Test We tested the breathability of these jackets in real-world use while hiking, backpacking, climbing, and ski touring. We researched the actual volume of water each fabric can pass and performed a series of side-by-side stationary bike and minute stair master test thanks, Vertical World Seattle to better compare and analyze breathability. We conducted the tests several times, comparing models with lots of

ventilation options, keeping vents completely closed, partially open, and completely open.

Chapter 4 : Rain - Wikipedia

"The weight of the rain / fell pitilessly / on his woollen coat / and the winter became unbearable / upon his shoulders" evokes the poem, which titles this collection of lyrical and philosophical poetic distillates. The themes are diverse; impositions and oppositions, they negotiate life and death, love and Eros, devotion and betrayal, joy and sorrow, hope and desp.

Water in the form of precipitation is unevenly distributed over the land. Each inch of rain is relatively heavy. One inch of rain on a square foot of land weighs 5. One inch of rain on one acre of land weighs The purpose of this report is to explain two procedures to determine the weight of one inch of rain on one acre of land. The first approach determines the number of cubic inches of water on one acre and the weight in pounds of one cubic inch of water, then uses these values to determine the weight of one inch of rain on one acre. One acre is one rod wide and one-half mile long. A rod is A mile is feet, and a half mile is feet. The number of square feet in an acre is There are square inches in a square foot. The number of square inches per acre is 43, square feet times square inches, which equals 6,, square inches per acre. One inch of rain times 6,, square inches per acre equals 6,, cubic inches of water per acre. One pint of water weighs one pound 1. One gallon of water weighs 8. One cubic foot of water contains 7. The weight of one cubic foot of water is 7. One cubic foot contains cubic inches. The weight of one cubic inch of water is The weight of one inch of rain on one acre of land is 6,, cubic inches of water per acre times 0. There are pounds in one ton. The weight of water per acre, , The second approach determines the number of gallons in one inch of water over one acre and then determines the weight of that number of gallons of water. There are cubic inches in one cubic foot. The number of gallons of water in a cubic inch is 7. There are 6,, cubic inches of water on one acre. This value times 0. The weight of water per gallon, 8. This value divided by pounds per ton equals

Chapter 5 : The Best Lightweight Rain Jackets | Reviews and Buying Advice | Gear Institute

The Weight of Rain is a really good read and I enjoyed it. The story has really well developed and likeable characters, and is a story that will make you laugh, make you cry, and in my case get frustrated with the characters on occasion.

Collects shoes as a hobby. Stage name is "Rain". He is a singer, dancer and actor in Korea and well-known in Asia. His favorite artists are Michael Jackson and Janet Jackson. His first album, released in the same month, was also known by this hit title track. Was a back-dancer for famous Korean artists such as Park Jin Young before he made his debut as an artist. Close friends included Korean actress Yeong-ae Lee. In order to become a trainee, Rain had to dance for 5 hours straight. Lived in poverty, his mother died when he was in his teens. Discovery Channel featured Rain in a documentary called "Hip Korea: Seoul Vibes" which began airing in countries in January, starting with Australia and New Zealand, followed by Asia and then Europe. Rain is known for his many charity efforts, a few notable examples: In He donated money to have 50 drinking water wells built and in to have playgrounds built in Cambodia. A percent of his World Tour concert proceeds were donated to assist children orphaned by AIDs. In he volunteered in the Taean oil spill cleanup and donated million won. Over, people attended. All, seats of the tour were completely sold out, including the two final concerts at Madison Square Garden on Feb 2nd and 3rd, Chosum Ilbo News reported US ticket sales as and total seats sold as, Expansion abroad began with his star-studded fashion show concert in Hong Kong on June 6, and another in Macau on June 27th. His favorite actress is Gong Li. Korean Army for compulsory service. The biggest competition is myself. I am not looking to follow others or pull them down. Five hours on martial arts and one hour on total body fitness. Their system is amazing. It combines a re-growth diet and a lot of core strength building. It was hard, but it was incredibly rewarding.

Chapter 6 : [Normal weight of the brain in adults in relation to age, sex, body height and weight].

4 stars!!!! The Effects of Falling is a beautifully written friends to lovers story. It's Dietz's second book in her Weight of Rain series and can be read as a standalone, but I loved the first book so much, I highly recommend you read that one first.

Chapter 7 : The Weight of Rain eBook: Mariah Dietz: calendrierdelascience.com: Kindle Store

The Weight of Rain by Mariah Dietz One night changed my life-one that I barely remember. When I close my eyes, my mind paints a picture of his smile and shades the contours of his hands, the deep scar around his bicep.

Chapter 8 : The Weight of Rain | calendrierdelascience.com

The weight of one inch of rain on one acre of land is 6,, cubic inches of water per acre times pounds of water per cubic inch, which equals, pounds of water per acre. There are pounds in one ton.

Chapter 9 : The Weight of Rain (The Weight of Rain, #1) by Mariah Dietz

The weight of a raindrop depends heavily on the type of weather but averages about kilograms (mg). See bibliographic entries for the mass of a raindrop on calendrierdelascience.com