

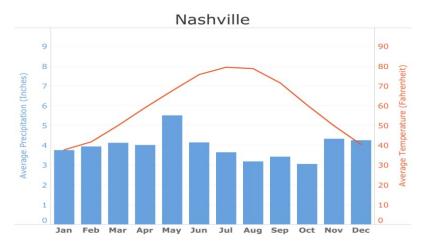
Condition Monitoring Reporting Guide: Southeast

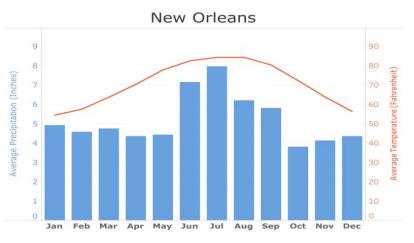
Regional Background

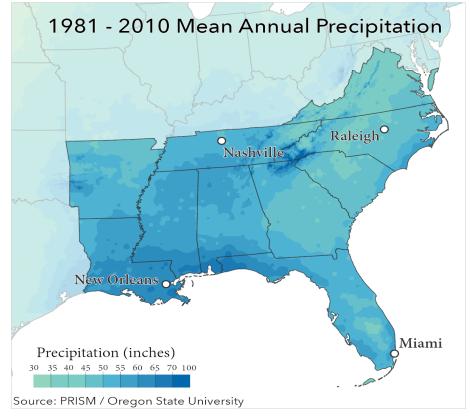
The Southeast is host to a wide range of weather patterns and events. With a humid subtropical climate across most of the region, relatively warm and wet conditions are typical year-round. Despite this, droughts are common in the Southeast. Precipitation is frequent for most of the year, but CoCoRaHS observers can expect the driest time of year to be mid-to-late fall. Summer and early fall can be quite variable due to the hurricane season. Proximity to the coasts has a moderating effect on temperatures and will usually mean more precipitation. The driest parts of the region can be found in the Piedmont, between the Appalachian Mountains and the Atlantic. The high Appalachians may see frequent precipitation year-round.

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it hard for researchers to identify the hardest hit areas.
- Sometimes, minor events may still have major human impacts, or vice versa. Don't worry if your precipitation measurements seem to conflict with the severity reflected in your reports: differentiating between magnitude and human impact is valuable to researchers and decision makers!
- While heat and drought often go together, be careful to note that impacts of heat (e.g., wilting plants) are not necessarily indicative of drought conditions.
- Droughts don't end instantly. Rain after long droughts may mean less
 dry conditions, but not necessarily a reset to "Near Normal"
 conditions. Think long term.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful to include.



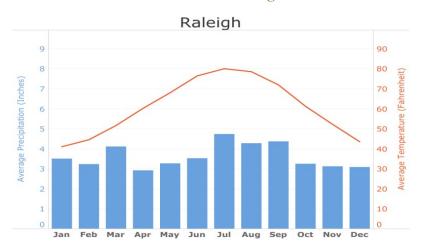


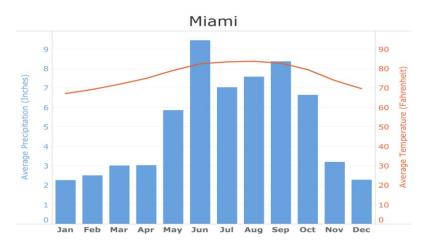


Average Monthly Climate Data

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What to Look For

The following tables provide examples of the types of conditions you might observe during different wet or dry periods. **These lists are designed as an aid.** The first table shows the condition monitoring scale bar categories and the types of conditions that correspond to those categories. The second table organizes different types of conditions and impacts by sectors and areas of interest. Be sure to note any other observations that you think may relate to dry or wet conditions.

	SEVERELY WET	MODERATELY WET	MILDLY WET	NE.		MILDLY DRY	MODERATELY DRY	SEVERELY DRY
• W pe we	se this category aringly et conditions have ersisted for several eeks ajor flooding il is saturated	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp 	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	Observed normal for of year This shoul default en	r this time d be your	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency
		WE					DRY	
Agriculture	flooding mo	may perform well in mild ay damage crops under delay planting or harves machine	more severe conditions sting, and mud may imp	s. Wet	smaller h vegeta soybean p	narvests. Plantings and h bles may be smaller in s boods aborting. Livestock	ay develop late, show si narvests may be delayed size. Impacts include co c may be smaller or requ orsen, farmers may decr	d as a result. Fruits and rn leaves curling and vire supplemental water
Business	revenue fro	and infrastructure projec m outdoor tourism is like f flooding or precipitatic	ly. Business may be adv	ersely	Decreased demand may adversely affect sectors such as agriculture, tourism, and landscaping. Increased consumer prices, particularly for food and water, may result in economic stress during prolonged droughts. Some sectors, such as well-drilling and foundation repair, may see benefits.			
Energy		ods of high precipitation colar energy production. result in power	Severe weather or floo		nuclear p	lants. Dying tree limbs, toture and may increase	ially in areas reliant on h neat, and subsiding soil o the likelihood of power it from prolonged dry co	are threats to electrical outages. Solar power
Fire	The number, size, and intensity of wildfires is likely to decrease as weather becomes wetter. Fire Danger ratings from the U.S. Forest Service are likely to be minimal. Prescribed burns may become more common during mildly wet conditions.					atings from the U.S. Fore	re common, as reflecte est Service. Fire season n mid- to early Spring).	
Plant &Wildlife	Frogs, earthwo population	ecomes lush and green, rms, and insects may be ns may be harmed by in severe cases, heavy pro cause trees to be ed	ecome more active. Stor creased turbidity or was ecipitation and saturate	cked fish shed	scavenge may result upstre	e in residential areas. Ch in fish kills, algal blooms am. Sharp fluctuations in ecome warmer and sha	y push animals (such as nanges in water level, te s, and the presence of s n mosquito presence ar llower. Mature, native tr drying if conditions are	mperature, and salinity altwater species farther e common as water ees will likely show signs
Relief & Response	School closure	be in effect for storms, t es will be more likely due s. Emergency declaratio condition	to some heavy precipit ons are indicative of seve	tation or	Regulations on outdoor burning and the use of fireworks are common, even at low levels of drought. Governments and other agencies may issue statements encouraging voluntary conservation of water and energy. These will often become mandatory if drought worsens. Emergency declarations indicate more severe conditions.			
Safety & Health						ons exacerbate air pollu conditions may become y, and those who work ease during prolonged	at, lungs, and skin may rution and pollen. Especial particularly dangerou outdoors. Prevalence of drought. Economic anxincern as conditions wor	ally when high heat is s for homeless persons, f mosquito-borne illness fety and mental health
Tourism & Recreation	tourism in gen	nditions may work in fav leral is likely to see decre verely wet periods. Outo cancelled due	eased revenue in the So door events are more lik	utheast	Freshwater recreation is likely to decrease as lower water levels close boat ramps and uncover submerged boating hazards. Beaches may also experience closures due to decreased water quality. Burn bans and wildlife impacts may influence outdoor activities like hunting and camping.			
Water	may cause at	nd wells will be at highe orupt changes in the co threaten water quality b septic syste	urses of small streams. V y causing overflows of s	ery wet	Water bodies and wells will be lower. Ponds, small streams, and wells dry completely in severe conditions. Water quality will typically decrease due to increased temperature and decreased volume. Abrupt changes in home water pressure or quality may be symptomatic of severe drought. Severe conditions will also often result in municipal water shortages.			



Condition Monitoring Reporting Guide: Northeast

Regional Background

While the climate of the Northeast is mostly humid continental, with warm summers and no specific "dry season" or "wet season," coastal areas will generally have greater annual precipitation. Southern areas are generally milder than northern areas. Proximity to the coast and the Great Lakes is a critical factor in local weather; these bodies of water typically moderate temperatures of nearby locations. Areas downwind of the Great Lakes commonly receive high winter snowfalls. Elevation also plays an important role in temperature and precipitation patterns.

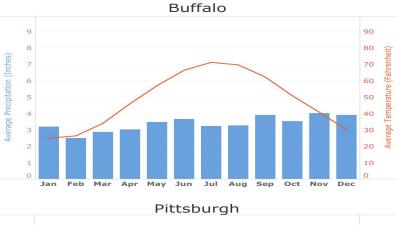
Reporting Reminders

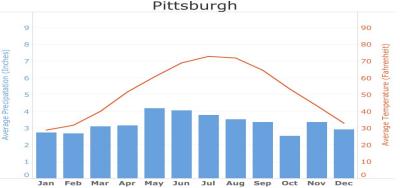
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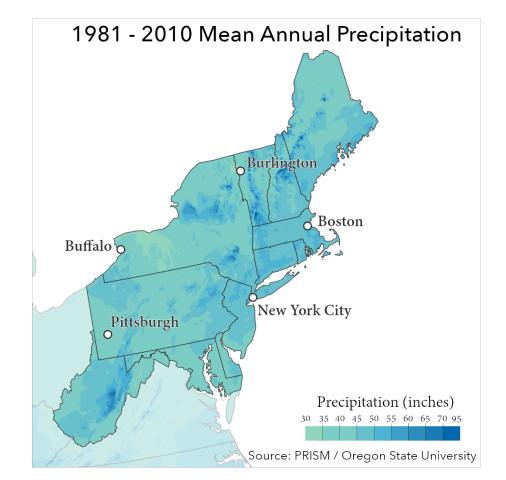
Average Monthly Climate Data

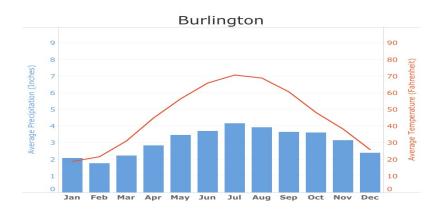
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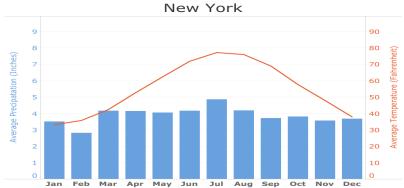




















WET	WET	WET	NORMAL	DRY	DRY	SEVERELY DRY
sparingly • Wet conditions have persisted for several weeks • Major flooding • Soil is saturated	Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	 Observed conditions normal for this time of year This should be your default entry 	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency

	• Standing water and se saturated minor flooding above normal above normal soil is very damp	 Water use restrictions start Soil is very dry Water is scarce State of Emergency 				
	WET	DRY				
Agriculture	Orchard fruit and berry yields perform well in wet conditions. Certain pests and mold issues will become more frequent. During intense or prolonged wet conditions, mud and standing water may delay or impede planting and harvesting processes. Crop yields may be reduced.	Crops may develop late, show stunted growth, or yield smaller harvests. Plantings and harvests may be delayed as a result Orchard fruits and berries may be smaller in size. Honey and dairy outputs may be lower. New wells and irrigation equipment may need to be purchased. Livestock may be smaller or require supplemental water and feed. In the Northeast, Christmas tree shortages are common in dry years.				
Business	Rainy and muddy conditions may delay construction and infrastructure projects. Flooding or snow may impede commutes, particularly in remote areas. Costs for transportation departments may increase due to snow removal and road salting. Urban areas with high densities of asphalt and concrete may flood easily, resulting in lost business hours.	Decreased demand may adversely affect tourism communities, local farms, and landscaping companies. Some sectors, such as well-drilling, may see benefits.				
Energy	Hydropower output is likely to increase in prolonged rainy weather. Very intense precipitation, especially in winter, may increase the danger of power outages.	Dying tree limbs, heat, and subsiding soil are threats to electrical infrastructure and may increase the likelihood of power outages. Utility bills are likely to increase, especially in areas reliant on hydroelectric, coal, or nuclear plants.				
Fire	U.S Forest Service fire danger ratings can be expected to be at or near minimum. It is common for prescribed burns to take place during wet conditions because they will be easier to contain.	Wildfires will be larger and more common, as reflected in increases in Fire Danger ratings from the U.S. Forest Service. Firefighting groups may release public statements or increase crew sizes. Fire season may begin earlier in the year (mid- to early Spring).				
Plant &Wildlife	Heavy precipitation and saturated soil may cause trees to be easily uprooted. Wildlife likely to be more prevalent in wet conditions include wildflowers, mushrooms, mosses, mosquitoes, and ticks. Autumn colors and "leaf-peeper" season are likely to occur later in the season.	Scarcity of water and food may push animals to scavenge in residential areas. Deer may be scrawnier or more prone to disease. Changes in water level and temperature may result in fish kills. Lawns may start to brown or die. Mature, native trees will likely show signs of browning and drying if conditions are severe, possibly becoming more susceptible to pine beetles and other pests.				
Relief & Response	Rain, snow, or fog may contribute to road closures. Emergency declarations or school closures for heavy rain or snowfall are an indicator of wet conditions.	Regulations on outdoor burning and the use of fireworks are common, even at low levels of drought. Governments and other agencies may issue statements encouraging voluntary conservation of water and energy. These will often become mandatory if drought worsens.				
Safety & Health	Runoff from heavy rainfall may lead to harmful algal blooms. Road safety impacts of very wet conditions include fog, hydroplaning, flooding, ice, and landslides. Increased time spent indoors may lend itself to faster spread of infectious disease. Mold and mildew may pose a health threat as wet conditions persist. Increased standing water can lend itself to an increase in mosquito populations.	Particularly in urban areas, dry conditions may exacerbate air pollution, lending itself to asthma symptoms and irritation of the sinuses. More widely, pollen conditions may also become worse. Falling water levels can create more standing water, potentially increasing the number of mosquitoes.				
Tourism & Recreation	Trails may require more maintenance due to mud and fallen limbs; some trails may be closed. Amusement park operation seasons may be delayed due to weather. High water in lakes, streams, and rivers may reduce fishing activity. Mildly wet (snowy) conditions may benefit some communities, including ski resorts.	Recreation on lakes and rivers may decline if surface levels decline. Decreases in water quality may impede freshwater and beach recreation. Hunting seasons and permitting policies may be adjusted in severe conditions, and CoCoRaHS reporters in the Northeast have suggested that hunting tourism may decline during drought. A lack of snow may delay or shorten the season for ski resorts and other winter recreation.				
Water	Lakes, rivers, and wells will be at higher levels. Periods of flash flooding may cause abrupt changes in the courses of small streams; this will also often result in muddy water and lots of debris in rivers and lakes. Very wet conditions can threaten water quality by causing overflows of sewer, septic, or wastewater treatment systems.	Water bodies and wells will be lower. Ponds, small streams, and wells dry completely in severe conditions. Water quality will typically decrease due to increased temperature and decreased volume.				

septic, or wastewater treatment systems.



Condition Monitoring Reporting Guide: Midwest

Regional Background

The climate of the Midwest is much more diverse than many people might realize. From north to south, the region's climate transitions from humid continental to humid subtropical. There is typically no specific "wet" or "dry" season, but summers tend to be hot and humid. The northern Midwest is known for its bitterly cold winters, but conditions are usually milder farther south. Areas downwind of the Great Lakes are prone to very heavy snowfalls. CoCoRaHS reporting is critical in spring and early summer when tornadoes and hail are common.

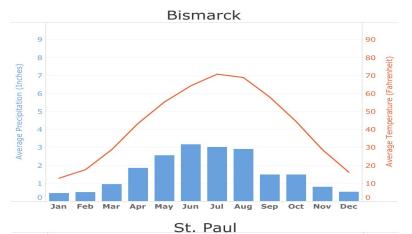
Reporting Reminders

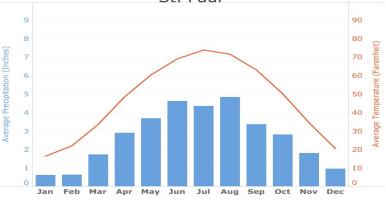
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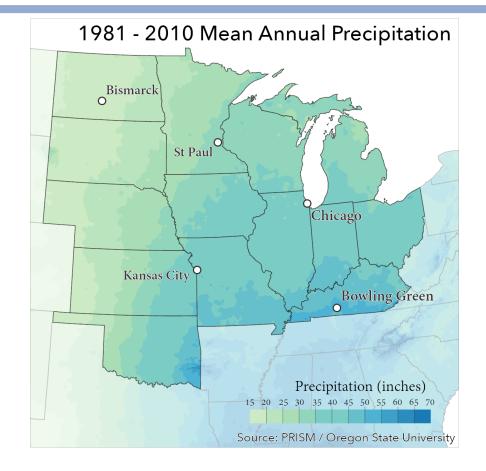
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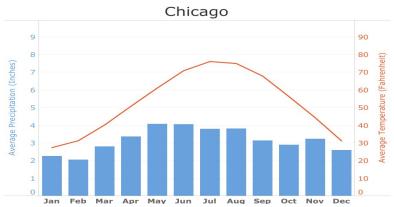


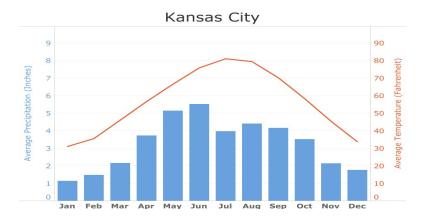


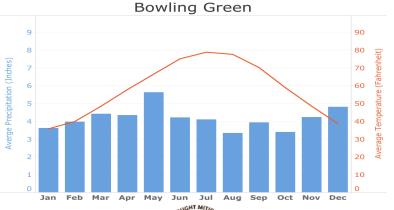
















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sparingly have persisted for a precipitation for normal for this time persisted for a few weeks, or there several days of year weeks several days		Observed conditions Pry conditions have Dry conditions have Use			
weeksrainfall eventcommondefault entry• Major flooding• Standing water and• Soil moisture is above normal• Water• Soil is saturatedminor floodingabove normalrestr	use use vitions start persisted for r Soil is comple Water is scarc State of Emerg	for normal for this time of year persisted for a few weeks • This should be your default entry is persisted for a few weeks • Soil is somewhat dry low • Water use persisted for a few weeks • Soil is somewhat dry • Water use	precipitation for several days Standing water is common Soil moisture is	have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding	sparingly • Wet conditions have persisted for several weeks • Major flooding

• Soi	l is saturated	minor flooding • Soil is very damp	above normal		restrictions start					
		WI	ET		DRY					
Agriculture	prolonged pi	os may perform well in we orecipitation, mud and st and harvesting. Very we	anding water may dela	ay or impede	Without enough water, crops may develop late, show stunted growth, or yield smaller harvests. Impacts include corn leaves curling, soybean pods aborting, and wheat being baled for supplemental silage. Livestock may be lighter or require supplemental water and feed. In severe cases, farmers may pursue reserve land for emergency haying and grazing. Ranchers may reduce their herds via auctioning or culling.					
Business	projects. F	nuddy conditions may do Flooding or snow may im rs. Flooding will complica of cargo bo	npede commutes and of the the navigation and i	cause lost	Economic anxiety is likely in the Midwestern agricultural communities during drought conditions. Prices of meat, produce, and water may increase. Sectors likely to be adversely impacted include ethanol and fertilizer. Increased pressure on crop insurers is likely prior to the growing season. Barge traffic may be impeded by lowered river levels.					
Energy		heavy precipitation, esp wer outages as a result (Heat and dying tree branches may damage powerlines. Utility bills may increase as the efficiency of energy production is harmed by the scarcity of water.					
Fire		Service fire danger ratin g controlled prairie burns minimize	will often wait for wet		Forest and prairie fires will be larger, more intense, and more common, as reflected by increases in Fire Danger ratings from the U.S. Forest Service. Fires will become more difficult and expensive to contain, straining fire crews in more severe cases.					
Plant &Wildlife	Frogs, eart	n becomes lush and gree thworms, and insects ma precipitation and saturo uprod	y become more active ated soil may cause tree	e. In severe	Scarcity of water and food may push animals to scavenge in residential areas. Game animals may be prone to disease and visibly less healthy. Populations of prairie birds (quails and pheasants) may suffer sharp declines during drought. Changes in water level and temperature may result in fish kills. Mature, native trees will likely show signs of browning and drying if conditions are severe.					
Relief & Response	declarations of wet condit	ow, or fog may contribu or school closures for he tions. Along major river sy es may be evacuated if	eavy rain or snowfall are ystems, neighborhoods	e an indicator protected by	Restrictions on outdoor burning and the use of fireworks are common, even at low levels of drought. Governments and other agencies may issue statements encouraging voluntary conservation of water. Lands under the Conservation Reserve Program may be opened for emergency grazing and haying. Emergency declarations, the opening of agricultural hotlines, and increased staffing of farm service agencies are indicators of more severe droughts.					
Safety & Health	flooding, an spread of in	ety impacts of wet conc nd ice. Increased time sp Ifectious disease. Standir rease in mosquito popula health threat as we	ent indoors may lend it ng water following wet ations. Mold and mildev	self to faster periods may	Dry conditions in the Midwest may reduce air quality and increase dust and pollen in the air. Where high heat is also present, working conditions may become dangerous for outdoor workers. Dry soil may subside, causing cracks in roadbeds and home foundations. Drought can also harm community morale and mental health, especially in small agrarian communities.					
Tourism & Recreation	for recreation	evels may close boat ran nal purposes. Prolonged lation of outdoor activitie	periods of frequent rain	n may result in	Closed boat ramps, shallow waters, and diminished water quality may limit water recreation. Hunting is likely to decline with reductions in the number of permits issued. Winter recreation in the northern Midwest may suffer as a result of decreased snowfall.					
Water		s, and wells will be at hig ater quality due to incre and overflows of sewe	ased runoff pollution, al		Water bodies and wells will be lower. Ponds, small streams, and wells dry completely in severe conditions, and demand for irrigation will likely increase. Water quality will typically decrease due to increased temperature and decreased volume. There may be less snow accumulation in the northern Midwest.					

decreased volume. There may be less snow accumulation in the northern Midwest.



Condition Monitoring Reporting Guide: Mountain West

Regional Background

Dry conditions are the norm in the Mountain West. Across the Great Plains, summers are intensely hot during the day, but cool at night due to the lack of humidity. In these same areas, winters can be expected to be quite cold. High elevations in the Rocky Mountains will be relatively cool year-round. Because of this cooler air, communities at higher altitudes will receive more precipitation on average than surrounding areas.

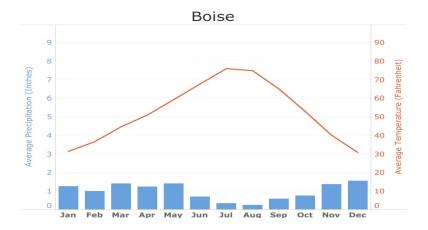
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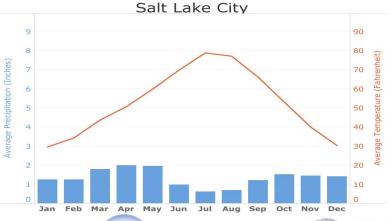
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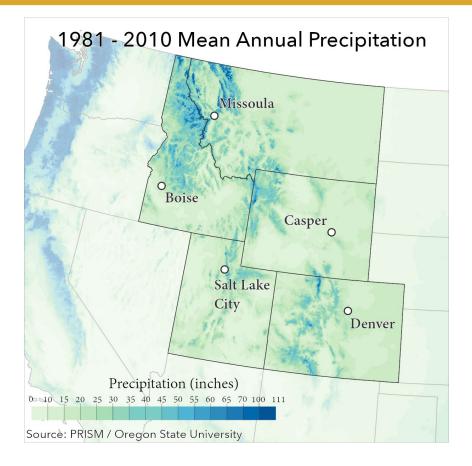
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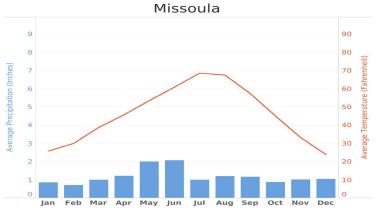
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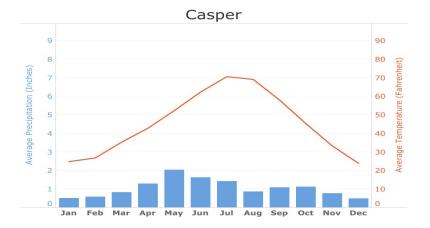


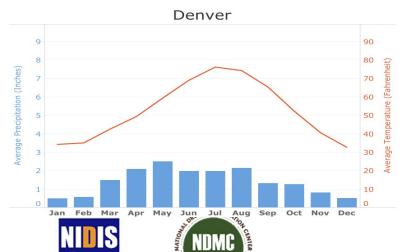












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NEAR

MILDLY

MODERATELY

SEVERELY

MILDLY

MODERATELY

SEVERELY

	WET	WET	WET	NE. NORI		MILDLY DRY	DRY	DRY	
sp • W pe	se this category paringly et conditions have ersisted for several eeks ajor flooding	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding 	 Frequent precipitation for several days Standing water is common 	Observed normal for of year This shoul default en	this time	Dry conditions have persisted for a few weeks	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start 	 Use this category sparingly Dy conditions have persisted for months Water is scarce State of Emergency 	
		WE.	Т				DRY		
Agriculture	or muddy co	nditions can reduce yie	ay planting or harvesting elds for potatoes and otl estore rangelands that h ranchers.	her root	smaller l feed, e	narvests. Livestock may specially where the gro may pursue reserve land	nay develop late, show some set to be smaller or require supported by the smaller or require supported by the state of the	pplemental water and inted. In severe cases,	
Business	projects. Becau	ise many mountain con	ay construction and infront nmunities may depend ely experience econom d tourism.	on tourism	Communities that are dependent on agriculture or mountain tourism may suffer significant economic impacts. Landscaping and similar businesses are likely to lose revenue as urban areas are pressured to reduce their water consumption.				
Energy			increased snowmelt. Sol decreased production rcast days.		or r	nuclear plants. Dying tre cture and may increase	especially in areas reliantee limbs and heat are the the likelihood of powerly production are possib	r outages. Increases in	
Fire			t or near minimum. Fire oprescribed burns to havenditions.		Danger ro	atings from the US Fores	ore common, as reflecte t Service. Firefighting gro es. Fire season may beg	oups may release public	
Plant &Wildlife	populations far	ther down the mountair	n elevations may push c n to forage, potentially r tumn colors will likely oc g wet years.	resulting in	Scarcity of water and food may push animals to scavenge in residential areas. Deer and elk may be visibly less healthy. Changes in water level and temperature may result in fish kills. Mature trees will likely show signs of browning and drying if conditions are severe. Damage to native tree populations may also increase the risk for outbreaks of spruce beetles.				
Relief & Response	volatile weather and outdoor b from dry to we	r, especially at higher el ourning are likely to be li	tion of flash floods, lands evations. Restrictions on ifted or relaxed as weat ions or school closures f r of wet conditions.	n water use ther shifts	In the West, state and municipal restrictions on water use and burn bans are common, even when drought conditions are not severe. Water use restrictions, particularly in the Colorado River Basin, will range from voluntary to mandatory as conditions worsen. Rangelands under the Conservation Reserve Program may be opened for emergency grazing.				
Safety & Health			nditions can develop ve h elevation roads may b y rain or snow.		and low Where	visibility. A sharp declin heat is also present, wo workers. Drought can al	the wind, creating the period in air quality around uporking conditions may be so harm community mon agricultural communiti	rban areas is also likely. ecome dangerous for rale and mental health,	
Tourism & Recreation	rafting commu	unities. Due to the risk of	enefit of ski resorts and w f flash flooding, certain t during inclement weath	trails and	invest in a similarly	alternative activities if the impact communities bunimal populations decl	ourism communities may nere is insufficient snow. , uilt around rafting tourisi ine, campgrounds may or hunting may decline	A lack of snowmelt may m. As fire risk increases close and interest in	
Water			lpine snowpack that las snowmelt may be at hig e spring.		to irrigat	ors and municipalities r will typically decrease c . There may be less sno	dry completely in severe may be strained during s due to increased tempe wpack at higher elevati oringtime stream levels.	evere droughts. Water rature and decreased	



Condition Monitoring Reporting Guide: Southwest

Regional Background

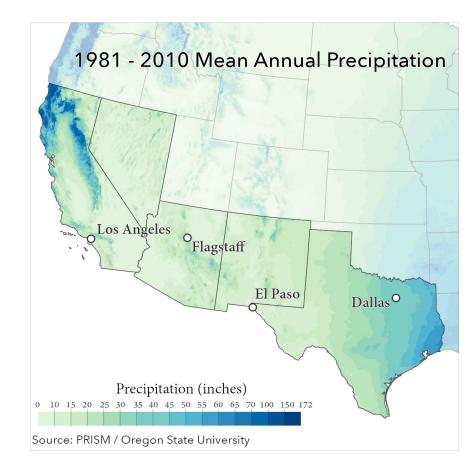
Though most of the region is known for its desert heat throughout much of the year, elevation and dry air means cooler summer nights and cold winters in many areas. Despite being extremely arid, what little rainfall the region does receive often comes in short, intense bursts. Higher elevations have slightly more moderate summer temperatures and will often accumulate snow in the winter. The coast of Southern California is kept dry and relatively warm year-round because of the moderating effect of the ocean. East Texas has a humid subtropical climate more like that of the Southeast, whereas northern California's climate is quite rainy. CoCoRaHS observers in those areas should consider consulting the Reporting Guides for the Southeast and Pacific Northwest, respectively.

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it hard for researchers to identify the hardest hit areas.
- Sometimes, minor events may still have major human impacts, or vice versa. Don't worry if your precipitation measurements seem to conflict with the severity reflected in your reports: differentiating between magnitude and human impact is valuable to researchers and decision makers!
- While heat and drought often go together, be careful to note that impacts of heat (e.g., wilting plants) are not necessarily indicative of drought conditions.
- Droughts don't end instantly. Rain after long droughts may mean *less dry* conditions, but not necessarily a reset to "Near Normal" conditions. Think *long term*.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful to include.



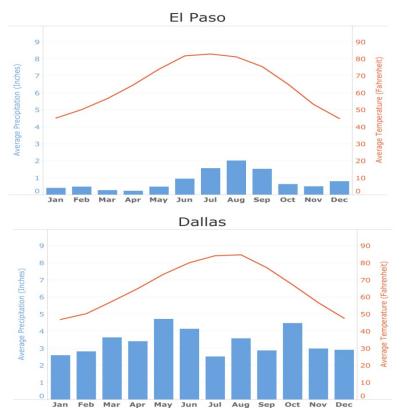




Average Monthly Climate Data

These sample climate charts represent normal monthly precipitation and temperature in your region. Pick a city near you and use the data below as a baseline for your "near normal" conditions. Explore these resources for climate data in other locations:

- National Drought Mitigation Center
- NOAA National Centers for Environmental Information
- NOAA Regional Climate Centers
- American Association of State Climatologists











	7.1	1 ,		Be sure to note any other observations that you think may relate to thy or wet conditions.				
	SEVERELY WET	MODERATELY WET	MILDLY WET	NE <i>l</i> NORI		MILDLY DRY	MODERATELY DRY	SEVERELY DRY
• W • w	se this category paringly /et conditions have ersisted for several eeks lajor flooding	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding 	 Frequent precipitation for several days Standing water is common 	Observed normal for of year This shoul default en	this time d be your	Dry conditions have persisted for a few weeks	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start 	 Use this category sparingly Dy conditions have persisted for months Water is scarce State of Emergency
		WE.	Т				DRY	
Agriculture	Sudden gro moderately we	owth of weeds is often re et conditions, need for ir	e green and in healthy c eported in the area. Ever rigation may drop off no larger and more plentifu	n with oticeably.	become vegetal smaller,	g operations may provious depleted. In dire condible production in Califor lower quality produce. In gion, drought is particulo	tions, ranchers may red nia and Arizona is likely Due to the history of wa	uce herd sizes. Fruit and to see lower yields with ter rights conflicts in the
Business	economic ber	nefits with more comfort	n revenue will likely expe table temperatures. Wet al unemployment in the	seasons	Drought in the Southwest is likely to have significant economic consequences across many sectors. High agricultural unemployment and increased consumer prices for water and produce often have severe economic consequences and have ripple effects beyond the region. Mountain communities built around ski resorts and river tourism are likely to suffer from lost revenue.			
Energy			ncreased snowmelt. Solo otput due to overcast pe		or nu	clear plants. Dying tree cal infrastructure and m	limbs, heat, and subsidi	od of power outages.
Fire	Fire danger declarations at or near minimum. Fire crews will often wait for wet conditions to perform prescribed burns to minimize the risk of spread.					haracteristic of Southwe conditions will increase t costly and challenging s may be redirected to acerbated by the scarci	he number, size, and sp to contain, and addition support firefighting effo	eed of wildfires. Fires will anal crewmembers and rts. This problems will be
Plant &Wildlife			ower blooms are signs o active as more water is		Scarcity of resources may push bears and coyotes into residential areas. Bird migration patterns may shift to avoid waterless areas. Damage to native tree populations may increase risk for outbreaks of pine beetles. Desert flora will initiate survival mechanisms as drought worsens; if desert plants show visible stress, drought is likely very severe.			Damage to native tree eetles. Desert flora will ert plants show visible
Reliet & Response	creates a risk o Restrictions or	f dangerous flash floods n water use and outdoo	streambeds) in the Grees during periods of intensor burning lifted or relaxes vations or near streamberoods.	se rainfall. d. Road	In the West, state and municipal restrictions on water use and burn bans are common, even when drought conditions are not severe. Water use restrictio particularly in the Colorado River Basin, will range from voluntary to mandate as conditions worsen. Severe droughts will often result in increased participat in food aid programs.			e. Water use restrictions, voluntary to mandatory
Satety & Health			esult in flash floods on ar ttion growth can result in vels.		Dust sto	rms are likely in rural are urban areas. Food insec	as, while air quality may	droughts, particularly
Tourism & Recreation			eases in outdoor recreati sons may work to the be g businesses.			vels on major rivers and ki seasons in the region		oating and whitewater shortened due to lower
Water	the season. Mo	ountain streams fed by s	lpine snowpack that last nowmelt may be at high orings that are normally out of season.	her levels	be less sn	owpack at higher eleven on contracts may result	ations, resulting in lower:	



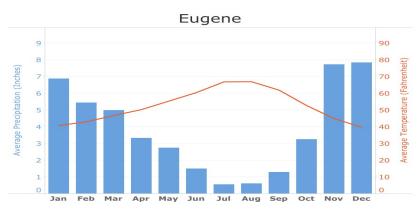
Condition Monitoring Reporting Guide: Pacific Northwest

Regional Background

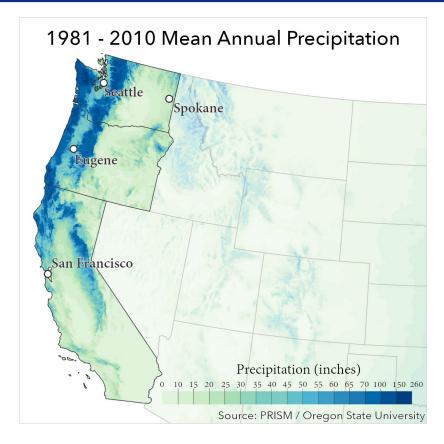
Along the coast, the Pacific Northwest is famously rainy. Summer is relatively dry, but rainfall is frequent throughout the rest of the year. Temperatures are relatively moderate along the coast in all seasons, meaning that most winter precipitation at lower elevations falls as rain rather than snow. The eastern interior of the region is a rain shadow with very little precipitation. The interior is characterized by hot summers and cold winters, though the lack of humidity keeps night-time temperatures cool all year. (CoCoRaHS observers in Southern California should consult the Southwest Reporting Guide.)

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it hard for researchers to identify the hardest hit areas.
- Sometimes, minor events may still have major human impacts, or vice versa. Don't worry if your precipitation measurements seem to conflict with the severity reflected in your reports: differentiating between magnitude and human impact is valuable to researchers and decision makers!
- While heat and drought often go together, be careful to note that impacts of heat (e.g., wilting plants) are not necessarily indicative of drought conditions.
- Droughts don't end instantly. Rain after long droughts may mean *less dry* conditions, but not necessarily a reset to "Near Normal" conditions. Think *long term*.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful to include.





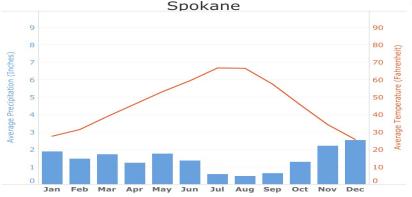


Average Monthly Climate Data

These sample climate charts represent normal monthly precipitation and temperature in your region. Pick a city near you and use the data below as a baseline for your "near normal" conditions. Explore these resources for climate data in other locations:

- National Drought Mitigation Center
- NOAA National Centers for Environmental Information
- NOAA Regional Climate Centers
- American Association of State Climatologists













NEAR

MILDLY

MODERATELY

SEVERELY

MILDLY

MODERATELY

	SEVERELY WET	MODERATELY WET	MILDLY WET		NEAR MILDLY MODERATELY SEVERELY DRY DRY					
• V • p • N	Jse this category paringly Vet conditions have persisted for several weeks Major flooding oil is saturated	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp 	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	Observed normal fo of year This shoul default er	r this time	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency 		
		WE	Γ				DRY			
Agriculture	Even with mod	ng pastures will likely be derately wet conditions, rchard fruits and berries plentiful fr	need for irrigation may will likely yield larger an	drop off	Without enough water, crops may develop late, show stunted growth, or yield smaller harvests. Irrigation systems in the interior may be strained. Livestock may be smaller or require supplemental water and feed, especially where the growth of pastureland is stunted. Ranchers may reduce their herd sizes.					
Business	projects. Floodin	dy conditions may dela ng or snow may result in ıral areas where alterna	school closures or lost w	ork hours,	Landscaping and similar businesses are likely to lose revenue as urban areas are pressured to reduce their water consumption. Algal blooms and diminished water quality may contribute to a decline in shellfish harvests.					
Energy		output may benefit from ow may create the risk o or falling lir	f power outages due to		Dying tree limbs, heat, and subsiding soil are threats to electrical infrastructure and may increase the likelihood of power outages. Utility bills may increase, especially in areas reliant on hydroelectric, coal, or nuclear plants. Increases in solar energy production are possible.					
Fire		larations at or near mini s to perform prescribed unwanted spr	burns to minimize the do		Danger	es will be larger and mo ratings from the U.S. Fore out calls for volunteer f later into the	est Service. Firefighting	groups may be strained nay begin earlier or last		
Plant &Wildlife	growth of mosse high elevations r	may improve condition es can also be expecte may push animal populo potentially resulting in ma	d. Heavier-than-usual sn ations farther down the	owfall at mountain	Scarcity of resources may push bears into residential areas. Fish migration may be impeded by low flows and populations of fish and shellfish may show signs of stress. Fish hatcheries may be forced to close. Damage to native tree populations may increase risk for outbreaks of pine beetles. Visible signs of disease may appear in bird populations.					
Relief & Response	Restrictions on relaxed as wea possible on route	water use and outdoor other shifts from dry to we es likely to be affected b	et. Highway safety mea:	sures are						
Safety & Health	In mountainou year, making o	d soil creates a risk of lan is areas, weather can be driving conditions dange es in mosquito populatic	e highly variable through erous. Pooling water car	nout the n cause	e The shallowing of wetlands may increase the presence of stagnant water a					
Tourism & Recreation	seasons. While th	seasons may often work ne region is characterize discourage hiking, camp	ed by frequent rain, exte	nded wet		ons may be delayed or I t to resorts. Boating and				
Water	years may expe	ervoirs may be at norma erience greater alpine s ntain streams fed by sno throughout the	nowpack that lasts later wmelt may be at highe	rinto the	quality	, small streams, and wel will typically decrease c e. There may be less sno lower sp	lue to increased tempe	rature and decreased		



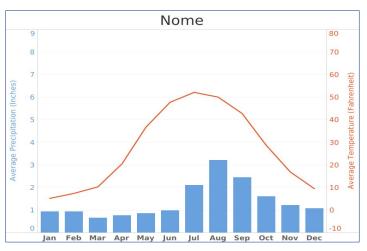
Condition Monitoring Reporting Guide: Alaska

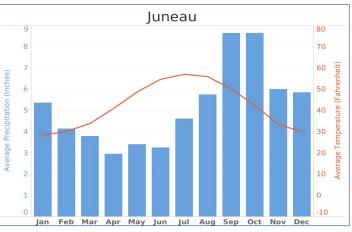
Regional Background

Alaska is home to an incredibly diverse climate. The Southern portion through the Panhandle and the Aleutian Islands sports an oceanic climate typified by heavy rainfall and extratropical storms, where average monthly precipitation is greatest in the fall. The remainder of the state is host to mainly a subarctic or tundra climate, with long winters and short, cool summers. Average monthly precipitation is greatest in the summer here, with a rain shadow from the various mountains which results in the central portions of Alaska receiving less precipitation than coastal areas. The Brooks Range further restricts precipitation to the arctic regions. While the term drought was not historically used in Alaska's rainforest area, it is now an accepted climate term due to the severe drought event in 2019.

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it difficult for researchers to identify the hardest hit areas.
- Sometimes, minor events may still have major human impacts, or vice versa. Do not worry if your precipitation measurements seem to conflict with the severity reflected in your reports: differentiating between magnitude and human impact is valuable to researchers and decision makers!
- While heat and drought often go together, be careful to note that impacts of heat (e.g., plants shedding leaves) are not necessarily indicative of drought conditions.
- Droughts do not end instantly. Rain after long droughts may mean *less dry* conditions, but not necessarily a reset to "Near Normal" conditions. Think *long term*.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful.





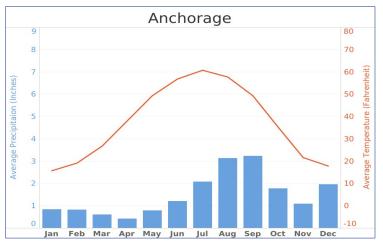
Precipitation (inches) 0 5 10 15 20 25 30 50 100 200 412 Source: PRISM / Oregon State University

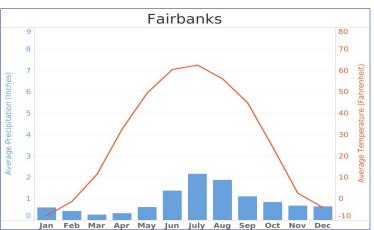
Average Monthly Climate Data

These climate charts represent normal monthly precipitation and temperature at select locations. Pick a city near you and use the data as a baseline for your "near normal" conditions. Explore these resources for more climate and drought information:

- National Drought Mitigation Center Alaska
- NOAA National Centers for Environmental Information
- Western Regional Climate Center Alaska Summary
- Alaska Climate Research Center

Data Source: NOAA National Centers for Environmental Information













	71				suit to note any other observations that you tillik may relate to try or wet conditions.				
	SEVERELY WET	MODERATELY WET	MILDLY WET	NE/ NORI		MILDLY DRY	MODERATELY DRY	SEVERELY DRY	
• V p w • N	Jse this category paringly Vet conditions have ersisted for several veeks Major flooding oil is saturated	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp 	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	Observed normal for of year This shoul default en	this time	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency 	
		WE ⁻	Γ				DRY		
Agriculture	With moderate drop off noticea long as tempera	ely wet conditions, the n bly. Berries will likely yiek ature conditions are also	e green and in healthy c need for individual irrigat d larger and more plent o conducive to growth. I on may inhibit plant grov on.	rion may iful fruit, as Too much	growth, be straine	or yield smaller harvests ed. The forestry industry r is. Water is used for both	. Individual irrigation syst may be significantly imp	acted by prolonged dry y in many municipalities,	
Business	projects. Flooding particularly in ru	ng or snow may result in ural areas where alterna	y construction and infra school closures or lost w tive routes may not be a so slippery and dangero	ork hours, available	Fish hatcheries and other water-dependent businesses may struggle with low water-levels. Low rainfall reduces stream flow and dissolved oxygen amounts, creating concern for these sectors. Energy industries such as hydropower and natural gas may struggle in dry conditions, causing citizens to rely on diesel generation, which is expensive and has negative air quality and health implications.				
Energy			increased snowmelt. Pe of power outages due to mbs.		population thanks to its electric	on, but its per capita en the harsh winters. In 20 city generation. This is es ower is especially import	ergy consumption is the 118, Alaska's hydropowe pecially crucial to the A	ne nation due to its small fourth highest in the US or accounted for 27% of laska panhandle, where ydropower production	
Fire	minimum. F	ire crews will often wait	ger declarations to be of for wet conditions to pe Inger of unwanted spred	rform	Interage heighte	res will be larger and mo ncy Alaska Wildland Fire n the risk of wildfire ignit ick of moisture. Heat fue	e Coordinating Group. E ion and promote fast sp	Prought conditions both	
Plants &Wildlife	growth of moss high elevations	es can also be expecte may push animal popul	ns for aquatic wildlife. Inc d. Heavier-than-usual sr ations farther down the ore encounters with hun	nowfall at mountain	Plants and wildlife will experience greater stress and may show signs through shedding leaves or being sparsely populated. When conditions are hot and dry salmon and other important fisheries found in shallow waters may experience greater die-off as the fish encounter less oxygenated waters. Moose won't be easy to spot, mosquito populations will decline, and most other wildlife populations will be unseen or unheard.				
Relief & Response	relaxed as wed	ather shifts from dry to w	r burning are likely to be et. Highway safety mea oy fog, flooding, ice, or l	sures are	water ar worsens.	nd energy conservation. Regulations on outdoor at low levels of drought.	These will often become burning and the use of		
Satety & Health	saturated with pon back roads, o	pools of water and mud causing travel and com	itions can cause the gro . This can lead to difficu muting dangers. These d lations, depending on th	Ity driving conditions	at the stagnant air quality can pote	/ may exacerbate allergentially increase landslice	g of wetlands may incre o higher mosquito levels gies and asthma sympto de activity by creating u		
Tourism & Recreation	seasons. Recrec not necess characterized I	ation industries such as s sarily "wet" conditions. \	to the benefit of winter t kiing depend heavily on While parts of the region ded wet periods may dis er outdoor activities.	snowfall, are	Ski seasons may be delayed or postponed, and there is likely to be decrease turnout to resorts. Boating and fishing may be harmed by warmer, shallowe waters. Fireworks may be banned during dry conditions for fear of wildfire ignition.				
Water	years may exp	erience greater alpine s	al or above-normal levels snowpack that lasts late swmelt may be at highe e spring.	r into the	Lower-than-average snowpack amounts can result in struggling stream and levels. Ponds, small streams, and wells may dry completely in severe condit Water quality will typically decrease due to increased temperature and decreased volume. Heat-induced permafrost thawing increases water infiltration, which prevents runoff and surface water recharging. Househor rainwater catchment systems will struggle to adequately provide for the hor				



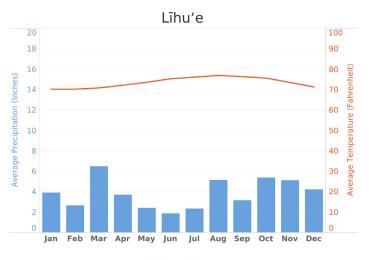
Condition Monitoring Reporting Guide: Hawai'i

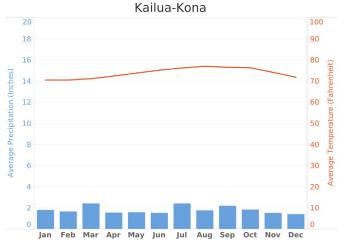
Regional Background

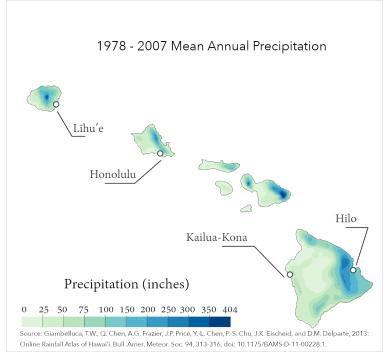
Hawai'i is known for having an enjoyable climate throughout the year. Most of the state experiences only summer and winter seasons, with winter significantly wetter than summer. Hawai'i is climatologically diverse, boasting 11 climate classifications, ranging from arid to humid tropical. Rainfall is heavily influenced by the location on an island: the Eastern (or windward) side is typically cooler and wetter, while the Western (or leeward) side is warmer and drier. Mean annual precipitation for Hawai'i ranges from 8 to 404 inches a year, and the average annual temperature ranges from 38.5 to 75 degrees Fahrenheit. Daily and annual temperatures vary depending on elevation.

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it hard for researchers to identify the hardest hit areas.
- Sometimes, minor events may still have major human impacts, or vice versa. Don't worry if your precipitation measurements seem to conflict with the severity reflected in your reports: differentiating between magnitude and human impact is valuable to researchers and decision makers!
- Droughts do not end instantly. Rain after long droughts may mean *less dry* conditions, but not necessarily a reset to "Near Normal" conditions. Think *long term*.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful to include.
- It is crucial to consider what "normal" means for your area. Eastern and Western sides of the island likely report significantly different normal conditions.



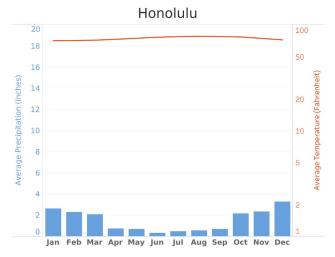


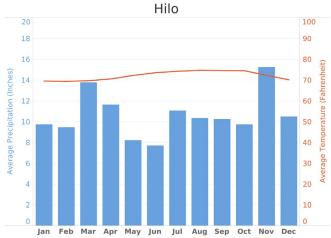


Average Monthly Climate Data

These sample climate charts, created with data from the Climate Atlas of Hawai'i, represent normal monthly precipitation and temperature in your region. Pick a city near you and use the data below as a baseline for your "near normal" conditions. Explore these resources for other climate and drought data:

- Climate Atlas of Hawai'i
- U.S. Drought Monitor Hawai'i
- NOAA National Centers for Environmental Information
- NOAA Western Regional Climate Center Hawai'i Narrative













MODERATELY

SEVERELY

MILDLY

What to Look For
The following tables provide examples of the types of conditions you might observe during different wet or dry periods. These lists are designed as an aid. The first table shows the condition monitoring scale bar categories and the types of conditions that correspond to those categories. The second table organizes different types of conditions and impacts by sectors and areas of interest. Be sure to note any other observations that you think may relate to dry or wet conditions.

NEAR

MILDLY

MODERATELY

SEVERELY

	SEVERELY WET	MODERATELY WET	MILDLY WET	NEA NORI		MILDLY DRY	MODERATELY DRY	SEVERELY DRY	
	 Use this category sparingly Wet conditions have persisted for several weeks Major flooding Soil is saturated 	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp 	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	Observed of normal for of year This should default en	this time	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency 	
		WE ⁻	Γ				DRY		
A	Even with mod noticeably. Ove products such as	derately wet conditions, ersaturated soil could re s fertilizer less effective.	e green and in healthy c need for irrigation may esult in runoff, making ag Moisture dependent co ely experience larger yie season.	drop off gricultural mmodities	smaller l industry i	enough water, crops m narvests. Irrigation systen may experience widesp onged and severe. Mac an	ns in the interior may be read (and costly) livesto	strained. The ranching ock loss if the conditions	
	projects. Flo	oding may result in scho	ny construction and infro pol closures or lost work l tive routes may not be o	hours,	Landscaping and similar businesses are likely to lose revenue as urban areas are pressured to reduce their water consumption. Diminished water supply and quality may negatively affect aquaculture operations.				
L	Periods of heavy	rain may create the risl falling tree	c of power outages due limbs.	to wind or	climate, p	increase due to industr	use than states with har	sher environments. Utility , which makes up over	
Ĺ	crews will often		e at or near minimum lev s to perform prescribed nwanted spreading.		Danger ro	dfire ignition and promo . Wildfires can be espec	st Service. Drought cond ote fast spreading of igr	ditions both heighten the ited fires due to lack of ong wind, which occurs	
PlantS	flourish. Region green, lush, and	ns that experience wet healthy, and will most I	s for native plants and w ter conditions will apped ikely be light limited. Wild e active in wet conditio	ar more dlife, such	Ecosystems will struggle under dry conditions. Many native plant and wildlife species struggle under drought conditions, making room for invasive species to take control of the drought-stricken regions.				
Relief &	Restrictions on relaxed as we possible on rol	eather shifts from dry to	r burning are likely to be wet. Road safety measu d by fog, flooding, or lar	res are	Governments and other agencies may issue statements encouraging volunto conservation of water and energy. These will often become mandatory if drought worsens. Regulations on outdoor burning and the use of fireworks ar common, even at low levels of drought.				
Safety &	Heavy, saturated Pooling water coperiods, which	an cause increases in m	ndslides and flooding in to losquito populations folk porne disease outbreaks ever.	owing wet					
Tourism &	recreational ac Hawai'i are ch	tivities, such as viewing aracterized by frequent	vork to the benefit of spe waterfalls. While many r rain, extended wet per d other outdoor activitie	egions of iods may					
			al or above normal leve restrictions won't be and nditions.			vere drought conditions ons will likely be imposed increased tempe		cally decrease due to	



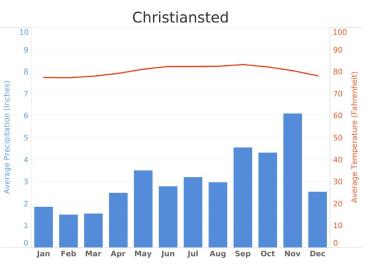
Condition Monitoring Reporting Guide: Puerto Rico & USVI

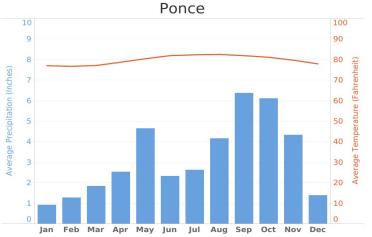
Regional Background

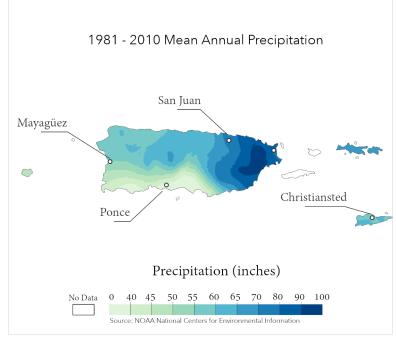
Puerto Rico and the US Virgin Islands (USVI) boast a tropical climate, experiencing mostly warm temperatures throughout the year and a rainy season from April through November. In Puerto Rico, rainfall varies across the island due to varied topography, but generally the Southern portion of the island receives less rainfall than the inland portion. The region can be heavily influenced by the Atlantic hurricane season, leading to extreme rainfall events.

Reporting Reminders

- Use "Severe" categories sparingly: overuse of these labels can make it hard for researchers to identify the hardest hit areas.
- While heat and drought often go together, be careful to note that impacts of heat (e.g., wilting plants) are not necessarily indicative of drought conditions.
- Droughts do not end instantly. Rain after long droughts may mean *less dry* conditions, but not necessarily a reset to "Near Normal" conditions. Think *long term*.
- In addition to rain measurements, notes on a storm's duration, power outages, road closures, and other such impacts are helpful to include.
- Tropical cyclones heavily influence the annual rainfall, so it's important to note events influenced by tropical activity in Condition Monitoring reports.
- If a region typically receives frequent rainfall, this will be considered "Near Normal" for the area, not "Severely Wet".



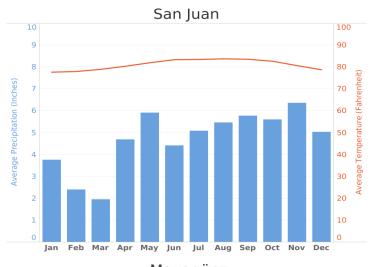


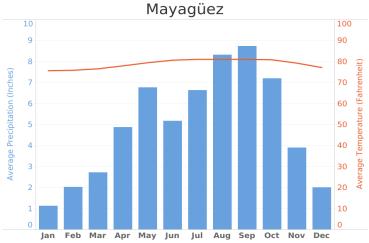


Average Monthly Climate Data

These sample climate charts represent normal monthly precipitation and temperature in your region. Pick a city near you and use the data below as a baseline for your "near normal" conditions. Explore these resources for climate and drought data:

- National Drought Mitigation Center Puerto Rico
- NOAA National Centers for Environmental Information
- Southeast Regional Climate Center
- National Weather Service San Juan: Climate and Drought
- Caribbean Florida Water Science Center Reservoir Levels





Data Source: NOAA National Centers for Environmental Information









	SEVERELY WET	MODERATELY WET	MILDLY WET	NE/ NORI	AR	MILDLY DRY	MODERATELY DRY	SEVERELY DRY
• M • M • M	se this category paringly /et conditions have ersisted for several reeks lajor flooding poil is saturated	 Wet conditions have persisted for a few weeks, or there has been a major rainfall event Standing water and minor flooding Soil is very damp 	 Frequent precipitation for several days Standing water is common Soil moisture is above normal 	Observed normal for of year This shoul default en	conditions this time	 Dry conditions have persisted for a few weeks Soil is somewhat dry 	 Dry conditions have persisted for several weeks Lakes and rivers are low Water use restrictions start Soil is very dry 	 Use this category sparingly Dy conditions have persisted for months Soil is completely dry Water is scarce State of Emergency
		WE	Γ				DRY	
Agriculture	Even with mod noticeably. Yiel	ing pastures will likely be lerately wet conditions, ds for important commo nas are not likely to suffe	needs for irrigation may odities such as coffee, pi	drop off ineapple,	damag decrec	out enough water, soil oges, and decreased yield uses of up to 80% under on us pineapple, bananas, o	ds may be seen. Coffee drought conditions, and	can experience yield other important crops
Business	projects. Flood	ldy conditions may dela ding may result in power icularly in rural areas wh availabl	outages, school closure ere alternative routes m	es, or lost	Landscaping and similar businesses are likely to lose revenue as residents are pressured to reduce their water consumption. Manufacturers that use large amounts of energy and water may have difficulty operating at full capacity.			acturers that use large
Energy		tput may benefit from ir ay create the risk of pow falling tree l	ver outages due to wind			islands may experience ing energy output, espe		
Fire	Expect fire danger declarations to be at or near minimum levels. Fire crews will often wait for wet conditions to perform prescribed burns to minimize the danger of unwanted spreading.					t conditions both height g of ignited fires due to k on, as reflected in the Fir 's National Weather Ser	ack of moisture. Wildfire re Weather Outlook fore	s will be larger and more ecasts released by San
Plants & Wildlife	will have more in Rico will likely succeed. During	may boost growth in rain nutrients to flourish. The o y see healthier grasses. <i>I</i> g periods without drough ecies will find more succ	dry southwestern region Mosquito populations wi nt, it is expected that na	of Puerto III likely	Plants and wildlife will experience greater stress and may show signs through shedding leaves or being sparsely populated. Drought has also contributed to declines in insect populations. Invasive species are expected to be more dominant during drought periods.			has also contributed to expected to be more
Response	relaxed as wed	n water use and outdoor ather shifts from dry to w utes likely to be affected	et. Highway safety mea	sures are	water ar	nents and other agencie nd energy conservation. Regulations on outdoor even at	These will often become	e mandatory if drought
Sarety & Health	In mountainou year, making	d soil creates a risk of lar is areas, weather can be driving conditions dang es in mosquito populatio	e highly variable througl erous. Pooling water cai	hout the n cause	Droug pollutio use rainw	recipitation has the pote	ct the safety of drinking ccurrence of wildfires. M ns in order to manage w	water and cause air
lourism & Recreation	may discourage works to the de	n is characterized by free ge hiking, camping, and etriment of the area's ro ous conditions are likely, significantly s	d other outdoor activitie ainforest tourism. If flash f tourism and recreation	s, which floods or	will no ensure	nfrastructure is crucial to t feel the impacts of mile that water is available fo by warmer, shallower w by stress on wild	der drought because to or tourists. Boating and fi	nkers in the rainforest shing activities may be activities may be limited
Water	conditions will all	servoirs may be at norm low for an increase in wo Rainwater harvesting ar smoothly and	ater use, and a likely imp nd recycling programs w	provement	potal decrease and yield	I for municipal areas. The	gnificantly decrease. Wh , sedimentation frequer e government will likely	

days.



Guía de Reporte y Monitoreo de Condiciones Climatológicas: Puerto Rico e Isla Vírgenes de los Estados Unidos

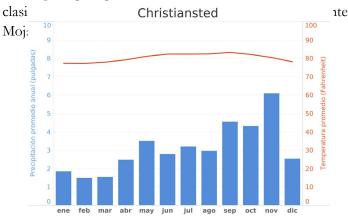
Información Regional

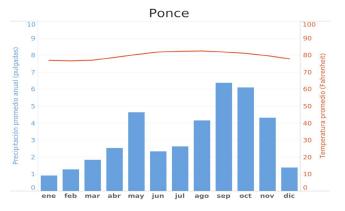
Puerto Rico y las Islas Vírgenes de los Estados Unidos (USVI, por sus siglas en inglés) cuentan con un clima tropical, experimentan mayormente temperaturas cálidas durante todo el año y una temporada lluviosa entre abril y noviembre. En Puerto Rico, la cantidad de lluvia varía debido a su topografía, pero generalmente el área sur recibe menos lluvia que la parte interior. Esta región caribeña es influenciada por la época de huracanes del Atlántico, que puede ocasionar eventos de lluvia extremos.

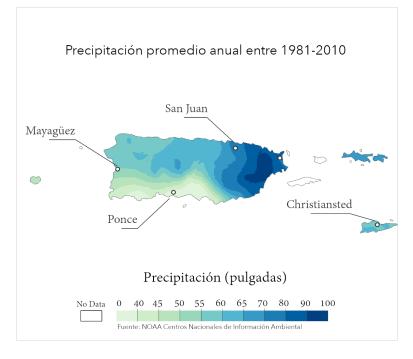
Consideraciones a tomar al momento de reportar

- No utilice la categoría "Severo" con mucha frecuencia: el sobreuso de esta categoría puede impactar la manera que los científicos y/o investigadores identifican las áreas más afectadas.
- Aunque las temperaturas altas y la sequía usualmente ocurren al mismo tiempo, sea cuidadoso al reportar impactos de las altas temperaturas (ej., plantas marchitas) que no son necesariamente indicativos de condiciones de sequía.
- Las sequías no terminan de manera inmediata. Eventos de lluvia después de períodos largos de sequía puede significar condiciones menos secas, pero no necesariamente se convierten en condiciones "Cerca de lo Normal" inmediatamente. Piense a largo plazo.
- Además de medir la cantidad de lluvia, tome nota de la duración de la tormenta, apagones eléctricos, cierre de carreteras y otros impactos relacionados a tormentas u otros eventos extremos.
- Las tormentas tropicales pueden afectar significativamente los valores de lluvia anual, así que es importante que tome nota de eventos influenciados por los ciclones tropicales en los reportes de Monitoreo de Condiciones Climatológicas.

Una región que típicamente recibe mucha lluvia deberá ser



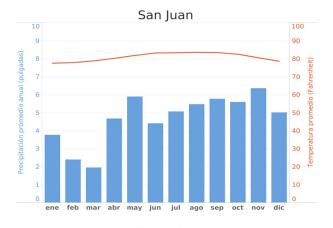


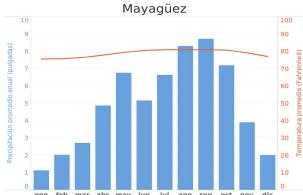


Promedio de climatología mensual

Estos ejemplos de gráficas climatológicas representan la precipitación y temperatura mensual normal en su región. Escoja una ciudad cercana a usted y utilice la información que se encuentra abajo para determinar sus condiciones "Cerca de lo Normal". También puede explorar estos recursos de datos climatológicos y de sequías:

- Centro Nacional de Mitigación de Sequía Puerto Rico
- NOAA Centros Nacionales de Información Ambiental
- Centro Regional de Clima del Suroeste
- Servicio Nacional de Meteorología San Juan, Puerto Rico
- Centro de las Ciencias del Agua Región Caribe-Florida Niveles en las Reservas















¿Qué debemos buscar?

Las siguientes tablas proveen ejemplos de los tipos de condiciones que usted puede observar durante diferentes períodos mojados o secos. Estas listas están diseñadas para ayudar con la identificación de las condiciones atmosféricas. La primera tabla muestra una escala de las categorías de las condiciones de monitoreo y las características de las condiciones correspondientes a cada categoría. La segunda tabla organiza los diferentes tipos de condiciones e impactos por sectores y áreas de interés. Esté seguro de anotar cualquier otra observación que considere que se pueda relacionar con períodos de condiciones mojados o secos.

SE	EVERAMENTE MOJADO	MODERADAMENT E MOJADO	LEVEMENTE MOJADO	CERCA NOR		LEVEMENTE SECO	MODERADAMENT E SECO	SEVERAMENTE SECO
con • La moji por • Se inun	poca frecuencia. s condiciones adas han persistido varias semanas. e reportan ndaciones mayores	 Las condiciones mojadas han persistido por una o dos semanas, o se ha reportado un evento de lluvia significativo. Se observa acumulación de agua o inundaciones menores. El suelo está muy mojado. 	 Precipitación frecuente por varios días. Es común observar acumulación de agua. La humedad del suelo está más alta de lo normal. 	varios días. Es común observar acumulación de agua. La humedad del suelo está más alta		Las condiciones secas han persistido por una o dos semanas. El suelo está un poco seco.	Las condiciones secas han persistido por varias semanas. Los niveles de los lagos y ríos están bajos. Comienzan las restricciones en el uso de agua. El suelo está muy seco.	Utilice esta categoría con poca frecuencia. Las condiciones secas han persistido por meses. El suelo está completamente esco. El agua está escasa. Estado de emergencia.
		MOJA	DO				SECO	
Agricultura	con condiciones riego. La produc	s moderadamente m cción de cultivos com	y en condiciones salud ojadas, no habrá neces no el café, la piña, los gi por falta de precipitaci	sidad de uineos y	secarár proc condicio	siente agua disponible, n, habrá daños en los fr lucción de café puede nes de sequía. Otros pro os plátanos dependen r	utos y la producción de sufrir una disminución o oductos importantes co	e cultivos disminuirá. La de hasta un 80% en omo la piña, los guineos,
Comercio	desarrollo de pro resultar en apago	oyectos de infraestruc ones eléctricos, canc	oodrían atrasar la constr ctura. Las inundaciones elación de clases en es mente en zonas rurales alternas.	podrían cuelas, o	Los negocios de paisajismo, jardinería y otros similares probablemente pierdan ganancias cuando las islas se vean obligadas a reducir su consumo de agua. Los manufactureros que usan gran cantidad de energía y agua pueden enfrentar dificultades para operar a máxima capacidad.			
Energía	aumento de p	recipitación. Los perí	ctrica se puede benefic odos de lluvia intensa p o al viento, granizo o la boles.	ueden	La pol debid	blación podría experim lo a la dificultad de pro dependan de pla	entar un aumento en lo ducir energía, especia ntas hidroeléctricas o d	mente en áreas que
Fuegos	Presuma que las declaraciones de peligro de incendios van a estar en c cerca del mínimo. Los equipos de bomberos usualmente esperan a tener condiciones mojadas para realizar quemas prescritas y así minimizar la propagación de incendios.					eja el Pronóstico de Fue	pagación rápida de ind pueden ser más granc gos distribuido por la Se	cendios por la falta de les y comunes, como lo
Plantas y Vida Silvestre	regiones con boso más nutrientes po podrían observo mosquitos probal	ques lluviosos. Las pla ara prosperar. En la re ar pastos y gramas m blemente aumentará	ntar el crecimiento de p ntas y la vida silvestre vo egión suroeste de Puerto ás saludables. La pobla 1. Durante períodos sin s ta región prosperen má as.	an a tener o Rico se ición de equía, se	Las plantas y la vida silvestre experimentarán mucho estrés y pueden presento signos tales como la pérdida de hojas o disminución de sus poblaciones. La sequía también podría contribuir a la disminución de la población de insectos Se espera que especies invasoras sean más dominantes durante períodos de sequía.			
Alivio y Respuesta	flexibilizar cua autopistas y carre	ando el tiempo camb eteras se podrían obse	quemas se pueden eli pia de seco a mojado. E ervar más medidas de s plina, inundaciones o de	En las seguridad	població pueder	oierno y otras agencias on a conservar agua y e n convertir en obligator a y uso de pirotecnia so	energía de manera volu ias si la sequía empeor	untaria. Estas órdenes se a. Las regulaciones de
Seguridad y Salud	inundaciones en ser altamente condiciones del t	la región. En las árec variable durante todo ránsito se tornen peliç	rean riesgo de derrumb is montañosas, el tiemp o el año, ocasionando o grosas. La acumulación oblación de mosquitos l uviosos.	o puede que las de agua	para la s habilida aire, espe USVI u consumo	salud de la población. Id de consumo de ague ecialmente si hay incer utilizan programas de ce o de agua en sus hogan ncial de afectar la salue	La sequía puede impar a potable y puede cau adios forestales reportac olección de agua de ll res. Por lo tanto, la falto	sar contaminación del dos. Muchos hogares en uvia para manejar el de precipitación tiene
Turismo y Recreación	extendidos de practicar senderi puede ser perjudi Si hay posibilid	Iluvia pueden disuac smo o hacer cualquie cial para actividades ad de inundaciones r	por lluvia frecuente, pe lir a las personas de acc er otra actividad al aire turísticas en los bosque epentinas u otras condi s y de recreación puedo oreramente.	ampar, libre. Esto es lluviosos. iciones	turísticas rese activic cálidas	ervas de agua de los b lades en botes o la pes y menos profundas. La tre pueden ser limitada	condiciones moderad osques lluviosos sustent ca se pueden ver afec s actividades turísticas i	as de sequía porque las an la industria. Las tadas por aguas más relacionadas a la vida
Agua	de lo normal. Las el uso de agua, y	condiciones mojadas probablemente, una	ar a niveles normales o s pueden permitir un au a mejoría en la calidad e agua de lluvia funcion ad.	mento en de agua.	en signific debido como probable	las Islas Vírgenes, la ca cativamente. Cuando h a la disminución de lluv o resultado impacta la c	ilidad del agua potable nay escasez de agua e via, el aumento en sedi calidad y producción c tes a los usos diarios de	n las reservas o lagos mentación que ocurre le agua. El gobierno agua. Las restricciones

razón de un día de uso de dos a tres veces por semana.