

AccuWeather.com Forecast

TODAY	SATURDAY	SUNDAY	MONDAY	TUESDAY
Plenty of sunshine	Sunny and hot	Hot with plenty of sun	Plenty of sunshine	Blazing sunshine and hot
PENDLETON TEMPERATURE FORECAST				
93° 61°	97° 63°	97° 61°	99° 65°	104° 70°
HERMISTON TEMPERATURE FORECAST				
96° 61°	100° 64°	100° 62°	101° 63°	107° 71°

ALMANAC

PENDLETON

through 3 p.m. yesterday

TEMPERATURE	HIGH	LOW
Yesterday	92°	64°
Normals	90°	60°
Records	110° (1939)	41° (1894)

PRECIPITATION

24 hours ending 3 p.m.

Month to date	0.00"
Normal month to date	0.30"
Year to date	11.30"
Last year to date	7.27"
Normal year to date	7.88"

HERMISTON

through 3 p.m. yesterday

TEMPERATURE	HIGH	LOW
Yesterday	94°	72°
Normals	90°	60°
Records	112° (1939)	41° (1932)

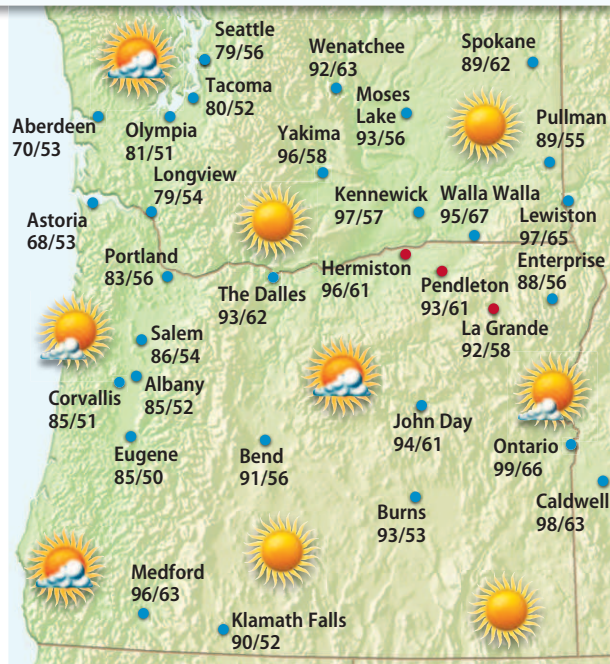
PRECIPITATION

24 hours ending 3 p.m.

Month to date	0.00"
Normal month to date	0.19"
Year to date	6.59"
Last year to date	4.94"
Normal year to date	5.89"

SUN AND MOON

Sunrise today	5:34 a.m.
Sunset tonight	8:29 p.m.
Moonrise today	11:37 a.m.
Moonset today	11:33 p.m.



REGIONAL FORECAST

Coastal Oregon: Times of clouds and sun today.

Eastern Washington: Brilliant sunshine today. Clear tonight. Plenty of sun tomorrow.

Eastern and Central Oregon: Partly sunny today, except sunnier across the north. Mainly clear tonight.

Western Washington: Mostly sunny today, except some clouds at the coast.

Cascades: Mostly sunny today. Clear tonight. Plenty of sun tomorrow; pleasant across the north.

Northern California: Partly sunny at the coast today; hot in central parts. Sunny elsewhere.

REGIONAL CITIES

City	Today			Sat.		
	Hi	Lo	W	Hi	Lo	W
Astoria	68	53	pc	70	56	pc
Baker City	89	51	s	93	53	pc
Bend	91	56	s	94	57	s
Brookings	66	53	pc	70	56	s
Burns	93	53	s	94	54	s
Enterprise	88	56	pc	91	57	pc
Eugene	85	50	s	88	52	s
Heppner	91	60	s	94	61	s
Hermiston	96	61	s	100	64	s
John Day	94	61	pc	97	60	s
Klamath Falls	90	52	s	92	53	s
La Grande	92	58	s	96	58	s
Meacham	89	53	s	93	54	s
Medford	96	63	s	98	64	s
Newport	63	49	s	65	52	s
North Bend	65	52	pc	67	54	s
Ontario	99	66	s	101	68	s
Pasco	97	56	s	99	58	s
Pendleton	93	61	s	97	63	s
Portland	83	56	s	86	61	s
Redmond	92	51	s	94	51	s
Salem	86	54	s	89	57	s
Spokane	89	62	s	93	62	s
Ukiah	88	50	s	91	51	s
Vancouver	82	55	s	85	59	s
Walla Walla	95	67	s	98	67	s
Yakima	96	58	s	98	61	s

WORLD CITIES

City	Today			Sat.		
	Hi	Lo	W	Hi	Lo	W
Beijing	85	69	pc	85	65	pc
Hong Kong	92	81	sh	93	83	pc
Jerusalem	88	69	s	85	66	s
London	70	59	r	71	58	c
Mexico City	76	57	pc	77	57	pc
Moscow	82	67	pc	84	65	c
Paris	73	61	pc	77	62	pc
Rome	83	67	s	85	67	s
Seoul	85	75	r	87	75	t
Sydney	68	46	s	68	55	s
Tokyo	87	77	pc	88	79	t

WINDS

(in mph)	Today	Saturday
Boardman	WSW 4-8	WSW 4-8
Pendleton	WNW 4-8	NW 4-8

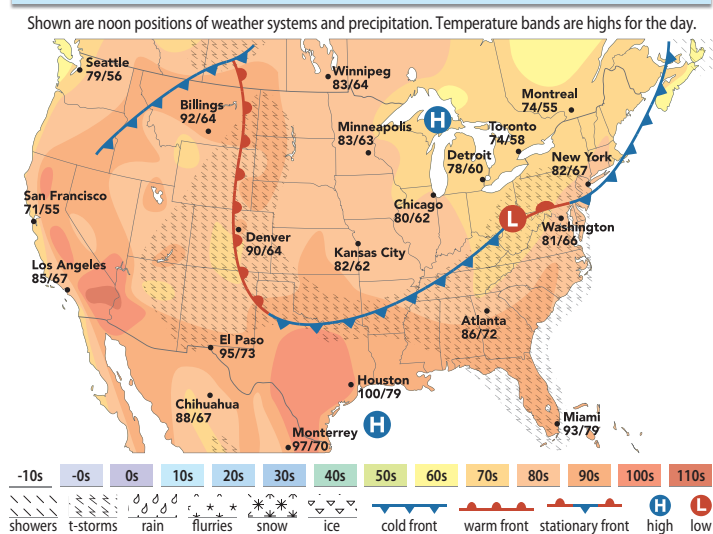
UV INDEX TODAY

2	4	7	7	4	1
8 a.m.	10 a.m.	Noon	2 p.m.	4 p.m.	6 p.m.
0-2, Low	3-5, Moderate	6-7, High	8-10, Very High	11+, Extreme	

The higher the AccuWeather.com UV Index™ number, the greater the need for eye and skin protection.

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NATIONAL WEATHER TODAY



National Summary: Heavy rain and a flooding risk will extend from the Ohio Valley to the central Appalachians and mid-Atlantic today. Locally severe storms will occur farther south in the East. Storms will dot the Rockies.

Yesterday's National Extremes: (for the 48 contiguous states)
 High 113° in Palm Springs, Calif. Low 34° in Truckee, Calif.

NATIONAL CITIES

City	Today			Sat.		
	Hi	Lo	W	Hi	Lo	W
Albuquerque	85	66	t	88	67	t
Atlanta	86	72	t	87	67	pc
Atlantic City	81	71	t	76	67	r
Baltimore	82	65	r	70	61	r
Billings	92	64	pc	94	65	t
Birmingham	84	72	t	85	67	pc
Boise	98	67	s	100	68	s
Boston	79	63	pc	69	61	c
Charleston, SC	91	76	t	86	67	t
Charleston, WV	77	62	t	73	55	c
Chicago	80	62	s	79	62	t
Cleveland	77	65	r	77	63	s
Dallas	102	80	s	96	78	pc
Denver	90	64	t	84	61	t
Detroit	78	60	pc	80	62	s
El Paso	95	73	t	95	72	t
Fairbanks	73	54	sh	73	55	c
Fargo	86	66	pc	86	66	pc
Honolulu	86	77	pc	87	76	s
Houston	100	79	s	98	78	pc
Indianapolis	80	58	pc	77	58	s
Jacksonville	93	75	t	90	73	t
Kansas City	82	62	pc	81	61	pc
Las Vegas	105	83	pc	105	83	pc
Little Rock	90	72	t	87	63	pc
Los Angeles	85	67	pc	83	66	pc
Louisville	84	65	pc	81	60	s
Memphis	87	71	t	87	64	s
Miami	93	79	t	92	80	pc
Milwaukee	75	62	pc	77	62	s
Minneapolis	83	63	s	83	64	pc
Nashville	85	66	t	83	62	pc
New Orleans	94	77	s	88	75	t
New York City	82	67	t	71	63	r
Oklahoma City	92	70	c	92	67	c
Omaha	83	65	c	83	65	pc
Philadelphia	82	67	r	70	63	r
Phoenix	101	81	c	97	79	t
Portland, ME	79	59	pc	73	57	s
Providence	82	64	pc	69	61	r
Raleigh	90	70	t	85	61	pc
Rapid City	88	62	t	91	62	t
Reno	97	65	s	97	65	s
Sacramento	97	60	s	95	61	s
St. Louis	87	65	s	84	63	t
Salt Lake City	93	69	s	95	70	t
San Diego	77	69	pc	76	68	pc
San Francisco	71	55	pc	73	57	pc
Seattle	79	56	s	82	59	s
Tucson	93	75	pc	88	73	t
Washington, DC	81	66	t	70	62	r
Wichita	90	67	pc	89	66	s

Weather (W): s-sunny, pc-partly cloudy, c-cloudy, sh-showers, t-thunderstorms, r-rain, sf-snow flurries, sn-snow, i-ice.

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In U.S. first, Portland scientists edit genes of human embryos

By MARILYNN MARCHIONE
 AP Chief Medical Writer

For the first time in the United States, scientists have edited the genes of human embryos, a controversial step toward someday helping babies avoid inherited diseases.

The experiment was just an exercise in science — the embryos were not allowed to develop for more than a few days and were never intended to be implanted into a womb, according to MIT Technology Review, which first reported the news. Officials at Oregon Health & Science University confirmed Thursday that the work took place there and said results would be published in a journal soon. It is thought to be the first such work in the U.S.; previous experiments like this have been reported from China. How many embryos were created and edited in the experiments has not been revealed.

The Oregon scientists reportedly used a technique called CRISPR, which allows specific sections of DNA to be altered or replaced. It's like using a molecular scissors to cut and paste DNA, and is much more precise than some types of gene therapy that cannot ensure that desired changes will take place exactly where and as intended. With gene editing, these so-called "germline" changes are permanent and would be passed down to any offspring.

The approach holds great potential to avoid many genetic diseases, but has raised fears of "designer babies" if done for less lofty reasons, such as producing desirable traits.

Last year, Britain said some of its scientists could edit embryo genes to better understand human development.

And earlier this year in the U.S., the National Academy of Sciences and National

"Any such experiment aimed at a pregnancy would need FDA approval, and the agency is currently not allowed to even consider such a request."

— R. Alta Charo, University of Wisconsin-Madison bioethicist

Academy of Medicine said in a report that altering the genes of embryos might be OK if done under strict criteria and aimed at preventing serious disease.

"This is the kind of research that the report discussed," University of Wisconsin-Madison bioethicist R. Alta Charo said of the news of Oregon's work. She co-led the National Academies panel but was not commenting on its behalf Thursday.

"This was purely laboratory-based work that is incredibly valuable for helping us understand how one might make these germline changes in a way that is precise and safe. But it's only a first step," she said.

"We still have regulatory barriers in the United States to ever trying this to achieve a pregnancy. The public has plenty of time" to weigh in on whether that should occur, she said. "Any such experiment aimed at a pregnancy would need FDA approval, and the agency is currently not allowed to even consider such a request" because of limits set by Congress.

One prominent genetics expert, Dr. Eric Topol, director of the Scripps Translational Science Institute in La Jolla, California, said gene editing of embryos is "an unstoppable, inevitable science, and this is more proof it can be done."

Experiments are in the works now in the U.S. using gene-edited cells to try to treat people with various diseases, but "in order to really have a cure, you want to get this at the embryo stage," he said. "If it isn't

done in this country, it will be done elsewhere."

There are other ways that some parents who know they carry a problem gene can avoid passing it to their children, he added. They can create embryos through in vitro fertilization, screen them in the lab and implant only ones free of the defect.

Dr. Robert C. Green, a medical geneticist at Harvard Medical School, said the prospect of editing embryos to avoid disease "is inevitable and exciting," and that "with proper controls in place, it's going to lead to huge advances in human health."

The need for it is clear, he added: "Our research has suggested that there are far more disease-associated mutations in the general public than was previously suspected."

Hank Greeley, director of Stanford University's Center for Law and the Biosciences, called CRISPR "the most exciting thing I've seen in biology in the 25 years I've been watching it," with tremendous possibilities to aid human health.

"Everybody should calm down" because this is just one of many steps advancing the science, and there are regulatory safeguards already in place. "We've got time to do it carefully," he said.

Michael Watson, executive director of the American College of Medical Genetics and Genomics, said the college thinks that any work aimed at pregnancy is premature, but the lab work is a necessary first step.

"That's the only way we're going to learn" if it's safe or feasible, he said.

Governor authorizes National Guard for solar eclipse

PORTLAND (AP) — Gov. Kate Brown is authorizing the Oregon National Guard to deploy soldiers to help deal with an influx of tourists during next month's total solar eclipse.

Oregon Public Broadcasting reports that the National Guard will stage six aircraft and about 150 soldiers and airmen ahead of the Aug. 21 celestial event.

The moon's shadow first hits Oregon as the moon passes between the Earth and the sun and up to 1 million people are expected to visit the state to see it.

State and local governments have been planning for months to prepare for an influx of people that could jam highways and stretch resources.

The eclipse coincides with peak wildfire season in Oregon and the National Guard could help fight fires if necessary.

House explosion caused by attempt to make hash oil

PORTLAND (AP) — Authorities say a fire that killed two men in North Portland was caused by a hash oil explosion.

Portland Fire & Rescue says 42-year-old Matthew McCrann died at the

BRIEFLY

hospital after Monday's fire and the body of a second victim, 68-year-old Richard Cisler, was found in the debris.

Hashish oil is concentrated marijuana, and its production can be a fire risk because it's prepared using butane.

Cisler's brother, Earl, told KOIN-TV that his brother was working at McCrann's home on a remodeling project.

Two men charged after filming public officials' homes