

Volkswagen of America, Inc.



3800 Hamlin Road
Auburn Hills, MI 48326
Tel. (810) 340-5000

May 11, 1999

99V-131 (61)

Mr. Kenneth N. Weinstein
Associate Administrator for Safety Assurance
National Highway Traffic Safety Administration
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, DC 20590

RECEIVED
53 MAY 21 AM 9:36
OFFICE
DEFECTS INVESTIGATION

**Subject: Notification of Recall Pursuant to CFR 49, Part 573
1998-1999 Model Volkswagen Passat and
1997-1999 Model Audi A4 Vehicles with
1.8T Engine and Automatic Transmission
Install Brake Booster Vacuum By-pass Kit**

Dear Mr. Weinstein:

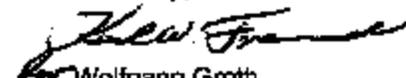
This information is submitted in accordance with the requirements of Part 573 of Title 49 of the Code of Federal Regulations:

573.5(c)(1) **Manufacturer's Name**
Volkswagen AG
Audi AG
Importer
Volkswagen of America, Inc. (VWoA)

573.5(c)(2) **Identification of Vehicles**
Make : Volkswagen and Audi
Line(s) : Volkswagen Passat
: Audi A4
Model Years : Passat 1998/1999
: Audi A4 1997-1999
Month/Year of Manufacture : October 1997 through February 1999
VIN Ranges : **Passat**
WWW__3B_WE000001 - WWW__3B_XE415482
Audi A4
: WAU__8D_VA000001 - WAU__8D_XA213850
Other Description : Automatic transmission vehicles
Component Supplier
Other Than Manufacturer : Not applicable.

- 573.5 (c)(3) **Number of Vehicles Affected**
Approximately 8,000 Volkswagen and 4,500 Audi vehicles are potentially affected by this recall.
- 573.5 (c)(4) **Percentage of Vehicles Containing Defect**
The percentage of vehicles potentially containing the defect cannot be determined
- 573.5 (c)(5) **Description of Defect**
A control valve in the vacuum hose connecting the brake booster to the intake manifold may not open or close fully at temperatures below -4° F under certain driving conditions. This condition could cause insufficient vacuum to be provided to the booster.
- 573.5 (c)(6) **Basis for Determination**
VWoA received a total of 9 owner complaints about insufficient brake assist, one originating in Illinois, five in Minnesota, two in Wisconsin, and one in South Dakota. VWoA's decision is also based on complaints by consumers residing in Quebec, Alberta, Manitoba, Saskatchewan and Ontario. A large majority of these complaints originated in Quebec. VWoA is not aware of any accidents attributed to this condition.
- 573.5 (c)(7) **Noncompliance Test Result**
Not applicable.
- 573.5 (c)(8) **Proposed Remedial Program**
VWoA has decided to notify owners residing in the states of Alaska, Colorado, Connecticut, Illinois, Iowa, Maine, Michigan, Montana, Minnesota, Nebraska, New Hampshire, New York, North Dakota, South Dakota, Vermont, Wisconsin and Wyoming. These states experience a minimum normal daily temperature of 20° F or lower during their coldest month. Volkswagen and Audi dealers nationwide will be instructed to install a vacuum by-pass system into vehicles operated in these states which is designed to provide sufficient vacuum for full brake assist under all weather conditions.
- This recall is proposed to commence as follows:
Dealer Notification: On or about June 15, 1999
Owner Notification: On or about July 9, 1999
- 573.5 (c)(9) **Submission of Communications**
A representative copy of bulletins and other communications sent to dealers and owners will be submitted to the NHTSA within five (5) days after the owner notification mailings.
- 573.5 (c)(10) **Proposed Owner Letter**
A copy of the proposed owner notification letter will be submitted no later than five (5) days prior to its actual mailing.
- 573.5 (c)(11) **Manufacturer's Recall Code**
Codes assigned to this recall:
Volkswagen: UH
Audi: KU

Sincerely,


Wolfgang Groth
Process Team Leader

Volkswagen of America, Inc.



3600 Hamlin Road
Auburn Hills, MI 48326
Tel: (313) 340-6000

RECEIVED
JUL 28 AM 8:09
OFFICE
REGISTRATION

July 23, 1999

Mr. Kenneth N. Weinstein
Associate Administrator for Safety Assurance
National Highway Traffic Safety Administration
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, DC 20590

**Subject: Amendment of Defect Information Report
(99V-131) Recall Codes UH/KU**

Dear Mr. Weinstein:

This will amend our Defect Information Report of May 11, 1999 as follows:

- Authorized Volkswagen and Audi dealers will be provided with all necessary recall information on or about August 2, 1999.
- Owner notifications are scheduled to be mailed on or about August 20, 1999.
- Recall repair parts are expected to be shipped to dealers beginning the week of August 4, 1999, with repairs to begin the week of August 23, 1999.

Our inability to adhere to the original proposed recall schedule is attributed to delays in the production of sufficient recall repair parts kits necessary for the initiation of this recall.

Please edit the information on your website accordingly.

Sincerely,

A handwritten signature in black ink that appears to read 'W. Groth'.

Wolfgang Groth
Process Team Leader

AH_KU DIR Amend

Volkswagen of America, Inc.



3800 Hamlin Road
Auburn Hills, MI 48326
Tel. (810) 340-6000

99V-131.001

September 3, 1999

Mr. Kenneth N. Weinstein
National Highway Traffic Safety Administration
U.S. Department of Transportation
400 Seventh Street, S.W.
Washington, DC 20590

**Subject: Notification of Recall Pursuant to CFR 49 Part 573
Installation of Brake Booster Vacuum By-pass Kit**

Dear Mr. Weinstein:

The following information is submitted to amend and supplement our Part 573 Notice dated May 11, 1999.

573.5(c)(2) Identification of Vehicles

We have decided to include into the recall the following additional vehicles.

- Volkswagen Passat with 2.8L 6 cylinder engine
WVW___3B_WE000012 -- WVW___3B_XE423292
- Audi A4 with 2.8L 6 cylinder engine
WAU___8D_VA226919 -- WAU___8D_XA086583
- Audi A6
WAU___4B_WN028844 -- WAU___4B_XN065033

573.5(c)(3) Number of Vehicles Affected

A total of 33,447 Volkswagen and Audi vehicles registered in the states of Alaska, Colorado, Connecticut, Idaho, Illinois, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, South Dakota, Vermont, Washington, Wisconsin, Wyoming (Cold Area States) are affected. An additional 54,674 owners whose vehicles are registered outside the Cold Area States will be notified of the defect and be given the option of having the recall completed if they so desire.

573.5(c)(5) Description of Defect

It is possible that the vacuum flow from the engine's intake manifold to the brake power assist unit could be obstructed by freezing moisture in the vacuum exit port of the manifold if the vehicle is operated continuously at outside temperatures of minus 4 degrees Fahrenheit

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NHTSA
SEP 13 1999

Mr. Weinstein
September 3, 1999
Page 2 of 2

or less. If that happens, the driver will experience braking with diminished or no power assist when the brakes are applied. The vehicle can be fully braked by applying much greater force to the pedal.

573.5(c)(8) Proposed Remedial Program

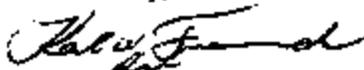
VWoA proposes to implement a remedial program providing for the notification of owners residing in Cold Area States in the form of letters marked Draft 1, attached hereto, and further providing for the notification of residents in the remaining states by letters marked Draft 2, attached hereto.

Cold Area States for the purpose of this recall are the states listed above in which the lowest normal daily minimum temperature during the last 30 years at any one of the weather stations maintained by the government was calculated to be 15 degrees Fahrenheit or less. The records of the National Climatic Data Center available from its Website show that the 22 states identified above, with the exception of Connecticut and Washington, fall into that category. We have included Connecticut and Washington because the lowest normal daily minimum temperature in January at Hartford, a large population center in Connecticut, was measured at 15.8 degrees Fahrenheit and the temperature in Washington in the mountains could be in the same range. A copy of a printout of the temperature data chart relied upon by VWoA is attached.

Owner Notification of this recall will be mailed on or about September 17, 1999.

Dealers will be notified on or about September 8, 1999.

Sincerely,


Wolfgang Groth
Process Team Leader

DIA UHJKU

Volkswagen of America, Inc.



2800 Hamlin Road
Auburn Hills, MI 48326
Tel. (248) 340-6000

September 1999

DRAFT (1) 1.8L

Cold Area Residents

9/01/99

**Subject: Recall Campaign UH
Install Brake Booster Vacuum By-pass Kit**

Dear Volkswagen Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Volkswagen has decided that a defect which relates to motor vehicle safety exists in some 1998/99 model Volkswagen Passat 1.8L Turbo vehicles equipped with automatic transmission. Our records show that your Volkswagen Passat vehicle is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of minus 4 degrees Fahrenheit or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

Remedial Repair

Your authorized Volkswagen dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions are already available at authorized Volkswagen dealers.

Anticipated Repair Time

The recall work will take approximately one hour. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

What You Need To Do

We have determined that you are residing in a geographical region of the country which could experience temperatures as low as minus 4 degrees Fahrenheit or lower and recommend that you make an appointment with your dealer so that the recall may be completed as soon as possible.

Please contact the Service Department of your authorized Volkswagen dealer and schedule an appointment as soon as possible. Please present the enclosed form, which identifies your vehicle, to your dealer when you bring your Volkswagen in for the service.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

If the vehicle identified in this recall is a leased vehicle and you are the lessor and registered owner, please forward this information by first class mail to the lessee.

Service Problem Help

If your authorized Volkswagen dealer fails or is unable to remedy the defect free of charge within a reasonable time, please call or write to:

Volkswagen of America, Inc.
Attn: *Customer Relations - 2F02 (UH)*
3800 Hamlin Road
Auburn Hills, MI 48326-2855
Toll-free Telephone: (800) 822-8987

If you still cannot obtain satisfaction, you may file a complaint with: Administrator, National Highway Traffic Safety Administration, U.S. Department of Transportation, 400 Seventh Street SW, Washington, DC 20590. Telephone: (800) 424-9393 (Washington, DC area: 366-0123).

We regret any inconvenience this matter may cause you; however, we want to make sure that your Volkswagen Passat is safe and operates to your satisfaction.

Thank you for driving a Volkswagen.

Sincerely,

Andreas H. Steglich
Product Compliance Team Leader

Volkswagen of America, Inc.



3800 Hamlin Road
Auburn Hills, MI 48326
Tel. (248) 340-5000

September 1999

DRAFT (1) 2.8L

Cold Area Residents

9/1/99

**Subject: Recall Campaign UH
Install Brake Booster Vacuum By-pass Kit**

Dear Volkswagen Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Volkswagen has decided that a defect which relates to motor vehicle safety exists in some 1998/99 model Volkswagen Turbo Passat 2.8L V6 vehicles equipped with automatic transmission. Our records show that your Volkswagen Passat vehicle is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of minus 4 degrees Fahrenheit or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

Remedial Repair

Your authorized Volkswagen dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions will be available at authorized Volkswagen dealers on or about October 15, 1999.

Anticipated Repair Time

The recall work will take approximately one hour. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

What You Need To Do

We have determined that you are residing in a geographical region of the country which could experience temperatures as low as minus 4 degrees Fahrenheit or lower and recommend that you make an appointment with your dealer so that the recall may be completed as soon as possible after parts are available.

Please contact the Service Department of your authorized Volkswagen dealer and schedule an appointment as soon as possible. Please present the enclosed form, which identifies your vehicle, to your dealer when you bring your Volkswagen in for the service.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

If the vehicle identified in this recall is a leased vehicle and you are the lessor and registered owner, please forward this information by first class mail to the lessee.

Service Problem Help

If your authorized Volkswagen dealer fails or is unable to remedy the defect free of charge within a reasonable time, please call or write to:

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We regret any inconvenience this matter may cause you; however, we want to make sure that your Volkswagen Passat is safe and operates to your satisfaction.

Thank you for driving a Volkswagen.

Sincerely,

Andreas H. Steglich
Product Compliance Team Leader

Volkswagen of America, Inc.



3800 Hamlin Road
Auburn Hills, MI 48326
Tel. (248) 340-5000

September 1999

DRAFT (2) 1.8L

Warm Area Residents

9/01/99

**Subject: Recall Campaign UH
Install Brake Booster Vacuum By-pass Kit**

Dear Volkswagen Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Volkswagen has decided that a defect which relates to motor vehicle safety exists in some 1998/99 model Volkswagen Passat 1.8L Turbo vehicles equipped with automatic transmission. Our records show that your Volkswagen Passat vehicle is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of minus 4 degrees Fahrenheit or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

What You Need To Do

We have determined that you are not residing in a region of the country which will ever experience temperatures as low as minus 4 degrees or lower in major population centers. The defect is therefore not likely to cause a safety problem for you, so there is no need for you to respond to this notice immediately.

However, we recommend that you have the recall completed if you should decide to move to, sell your vehicle to a resident in or plan to drive your vehicle in the states of Alaska, Colorado, Connecticut, Idaho, Illinois, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, South Dakota, Vermont, Washington, Wisconsin or Wyoming. In that case, please make an appointment with your nearest Volkswagen dealer.

Remedial Repair

Your authorized Volkswagen dealer will install a vacuum by-pass which will allow full vacuum to be available for power assist under all weather conditions.

Repair Schedule

Parts including the necessary installation instructions are already available at authorized Volkswagen dealers.

Anticipated Repair Time

The recall work will take approximately one hour. However, your dealer may need additional time to accommodate the daily workshop schedule. The work will, of course, be performed at no charge.

Precautions

If, prior to the time that the corrective work is performed, your brake pedal should feel "hard" upon braking, you will still be able to brake the vehicle by applying much greater force to the pedal. Also, contact your authorized dealer immediately.

Lease Vehicle

If the vehicle identified in this recall is a leased vehicle and you are the lessor and registered owner, please forward this information by first class mail to the lessee.

Service Problem Help

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Andreas H. Steglich
Product Compliance Team Leader

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September 1999

DRAFT (2) 2.8L

Warm Area Residents

9/01/99

**Subject: Recall Campaign UH
Install Brake Booster Vacuum By-pass Kit**

Dear Volkswagen Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Volkswagen has decided that a defect which relates to motor vehicle safety exists in some 1998/99 model Volkswagen Passat 2.8L V6 vehicles equipped with automatic transmission. Our records show that your Volkswagen Passat vehicle is one of the vehicles affected by this voluntary safety recall action.

Defect Description

It is possible that the vacuum flow from the engine's intake manifold to the power brake system could be obstructed by freezing moisture in the manifold if the vehicle is operated continuously at outside temperatures of minus 4 degrees Fahrenheit or below. If that happens, you will experience braking with diminished or no power assist when the brakes are applied.

What You Need To Do

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However, we recommend that you have the recall completed if you should decide to move to, sell your vehicle to a resident in or plan to drive your vehicle in the states of Alaska, Colorado, Connecticut, Idaho, Illinois, Iowa, Maine, Massachusetts, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New York, North Dakota, Oregon, South Dakota, Vermont, Washington, Wisconsin or Wyoming. In that case, please make an appointment with your nearest Volkswagen dealer.

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Thank you for driving a Volkswagen.

Sincerely,

Andreas H. Steglich
Product Compliance Team Leader

 [NCDC / Get/View Data / Comparative Climatic Data / Search](#)

Normal Daily Minimum Temperature, Deg F

NORMALS 1961-90	YRS	JAN	FEB	MAR	APR	MAY	JUN	JUL
BIRMINGHAM AP, AL	30	31.3	34.5	42.3	49.2	57.7	65.2	69.5
HUNTSVILLE, AL	30	29.2	32.6	40.9	49.0	57.3	64.9	68.9
MOBILE, AL	30	40.0	42.7	50.1	57.1	64.4	70.7	73.2
MONTGOMERY, AL	30	35.8	38.8	45.7	52.9	60.8	67.9	71.5
ANCHORAGE, AK	30	8.4	11.5	18.1	28.6	38.8	47.2	51.7
ANNETTE, AK	30	29.7	32.1	33.9	37.0	42.3	47.8	52.0
BARROW, AK	30	-19.3	-23.7	-21.1	-9.1	14.4	29.7	33.6
BETHEL, AK	30	0.4	-0.8	5.4	15.7	31.7	42.3	47.7
BETTLES, AK	30	-20.4	-18.3	-8.6	9.7	33.5	47.0	49.2
BIG DELTA, AK	30	-11.0	-6.2	2.5	20.5	36.9	47.2	50.7
COLD BAY, AK	30	24.1	22.8	25.0	28.6	34.8	40.9	46.0
FAIRBANKS, AK	30	-18.5	-14.4	-1.7	20.4	38.0	49.5	52.6
GULKANA, AK	30	-13.9	-7.0	2.6	19.9	32.6	42.2	46.4
HOMER, AK	30	16.8	18.1	21.9	28.6	35.6	42.2	46.2
JUNEAU, AK	30	19.0	22.7	26.7	32.1	38.9	45.0	48.1
KING SALMON, AK	30	7.6	6.7	14.1	23.4	33.9	41.4	46.4
KODIAK, AK	30	24.7	24.9	26.9	31.4	37.5	43.6	48.2
KOTZEBUE, AK	30	-7.5	-12.0	-8.0	2.3	24.5	37.8	48.5
MCCRATH, AK	30	-17.8	-14.2	-2.9	16.0	34.5	45.1	49.0
NOME, AK	30	-0.7	-4.5	-0.3	9.7	29.2	38.8	45.2
ST. PAUL ISLAND, AK	30	22.4	17.9	19.4	23.9	31.2	37.1	42.5
TALKEETNA, AK	30	0.6	4.0	9.8	22.4	33.8	44.4	49.0
UNALAKLEET, AK	30	-1.3	-4.4	2.8	13.2	31.1	41.4	48.5
VALDEZ, AK	30	15.0	18.1	22.4	29.9	37.8	44.4	47.5
YAKUTAT, AK	30	18.6	21.1	23.7	29.1	36.5	43.3	47.8
FLAGSTAFF, AZ	30	15.2	17.7	21.3	26.7	33.3	41.4	50.5
PHOENIX, AZ	30	41.2	44.7	48.8	55.3	63.9	72.9	81.0
TUCSON, AZ	30	38.6	41.0	44.6	50.4	58.0	67.9	73.6
WINSLOW, AZ	30	19.1	24.6	30.1	36.5	44.9	53.9	62.8
YUMA, AZ	30	44.2	46.9	50.8	56.5	63.8	72.0	80.7
FORT SMITH, AR	30	25.5	30.2	39.2	48.6	57.7	65.9	70.0
LITTLE ROCK, AR	30	29.1	33.2	42.2	50.7	59.0	67.4	71.5
NORTH LITTLE ROCK, AR	30	29.4	33.6	42.6	52.2	59.7	67.5	71.3
BAKERSFIELD, CA	30	38.6	42.6	45.8	50.1	57.3	64.0	69.6
BISHOP, CA	30	22.0	26.3	30.2	35.7	43.8	51.2	56.1
EUREKA, CA.	30	41.5	42.9	43.4	44.3	47.5	50.6	52.3
FRESNO, CA	30	37.4	40.5	43.4	47.3	53.7	60.4	65.1
LONG BEACH, CA	30	44.9	46.9	49.0	51.8	56.3	59.8	63.4
LOS ANGELES AP, CA	30	47.8	49.3	50.5	52.8	56.3	59.5	62.8
LOS ANGELES C.O., CA	30	48.9	50.6	51.8	54.2	57.7	61.1	64.5
REDDING, CA	30	35.7	40.0	41.7	46.0	52.3	61.8	64.7
SACRAMENTO, CA	30	37.7	41.4	43.2	45.5	50.3	55.3	58.1
SAN DIEGO, CA	30	48.9	50.7	52.8	55.6	59.1	61.9	65.7
SAN FRANCISCO AP, CA	30	41.8	45.0	45.8	47.2	49.7	52.6	53.9
SAN FRANCISCO C.O., C	30	45.8	48.7	49.0	49.8	50.5	52.6	53.5
SANTA BARBARA, CA	30	40.3	43.2	45.2	47.1	50.1	53.6	56.9
SANTA MARIA, CA	30	38.3	40.4	41.3	42.5	46.4	50.3	52.9
STOCKTON, CA	30	37.0	40.3	42.6	45.7	51.8	57.5	60.9
ALAMOSA, CO	30	-3.9	4.8	15.8	23.5	32.8	41.0	47.8
COLORADO SPRINGS, CO	30	16.1	19.3	24.6	33.0	42.1	51.1	57.1
DENVER, CO	30	16.1	20.2	25.8	34.5	43.6	52.4	58.6
GRAND JUNCTION, CO	30	14.5	23.5	31.3	38.5	47.9	57.1	63.9
PUEBLO, CO	30	14.2	19.5	26.1	35.7	45.6	54.2	61.2
BRIDGEPORT, CT	30	21.9	23.2	30.9	39.8	50.0	59.1	65.7
HARTFORD, CT	30	15.8	18.6	28.1	37.5	47.6	56.9	62.2

WILMINGTON, DE	30	22.4	24.8	33.1	41.8	52.2	61.6	67.1
WASHINGTON DULLES AP, D.C.	30	21.0	23.3	31.8	40.3	50.0	59.2	64.1
WASHINGTON NAT'L AP, D.C.	30	26.8	29.1	37.7	46.4	56.6	66.5	71.4
APALACHICOLA, FL	30	43.8	46.1	52.7	59.1	66.0	72.1	74.4
DAYTONA BEACH, FL	30	46.9	48.4	53.9	58.6	64.9	70.8	72.5
FORT MYERS, FL	30	53.2	54.2	58.6	62.0	67.9	73.1	74.5
GAINESVILLE, FL	30	42.5	44.1	50.7	55.8	62.6	68.3	70.9
JACKSONVILLE, FL	30	40.5	43.3	49.2	54.9	62.1	69.1	71.9
KEY WEST, FL	30	65.0	65.6	69.0	72.2	76.1	78.5	79.6
MIAMI, FL	30	59.2	60.4	64.2	67.8	72.1	75.1	76.2
ORLANDO, FL	30	48.6	49.7	55.2	59.4	65.9	71.8	73.1
PENSACOLA, FL	30	41.4	44.1	51.3	58.5	65.7	71.8	74.2
TALLAHASSEE, FL	30	38.1	40.1	46.8	52.2	60.8	68.5	71.1
TAMPA, FL	30	50.0	51.6	56.5	60.8	67.5	72.9	74.5
VERO BEACH, FL	30	50.7	51.9	56.9	61.0	66.2	70.8	72.1
WEST PALM BEACH, FL	30	55.7	56.5	61.2	64.7	69.7	73.1	74.5
ATHENS, GA	30	32.0	34.7	42.1	49.8	58.1	65.8	69.5
ATLANTA, GA	30	31.5	34.5	42.5	50.2	58.7	66.2	69.5
AUGUSTA, GA	30	32.0	34.7	42.2	48.6	57.5	65.6	69.9
COLUMBUS, GA	30	35.2	37.6	45.1	52.2	61.0	68.4	71.8
MACON, GA	30	34.2	36.8	44.2	50.9	59.3	66.8	70.5
SAVANNAH, GA	30	38.1	41.1	48.3	54.5	62.9	69.2	72.4
HILO, HI	30	63.6	63.6	64.4	65.5	66.5	67.6	68.6
HONOLULU, HI	30	65.6	65.4	67.2	68.7	70.3	72.2	73.5
KAHULUI, HI	30	63.6	63.4	64.6	66.1	67.0	69.0	70.5
LIHUE, HI	30	65.3	65.1	66.9	68.5	70.3	72.5	73.7
BOISE, ID	30	21.6	27.5	31.9	36.7	43.9	52.1	57.7
LEWISTON, ID	30	27.6	31.5	34.7	39.7	46.5	53.9	59.2
POCATELLO, ID	30	14.4	19.8	25.9	32.3	39.6	47.3	53.0
CHICAGO, IL	30	12.9	17.2	28.5	38.6	47.7	57.5	62.6
MOLINE, IL	30	11.3	15.9	28.1	39.4	49.9	59.6	64.5
PEORIA, IL	30	13.2	17.7	29.8	40.8	50.9	60.7	65.4
ROCKFORD, IL	30	9.8	14.2	26.1	36.9	47.4	57.4	62.5
SPRINGFIELD, IL	30	15.9	20.2	31.6	42.5	52.3	61.9	66.1
EVANSVILLE, IN	30	21.2	25.0	35.7	45.0	54.2	63.3	67.5
FORT WAYNE, IN	30	15.3	17.8	28.8	38.5	49.1	59.3	63.2
INDIANAPOLIS, IN	30	17.2	20.9	31.9	41.5	51.7	61.0	65.2
SOUTH BEND, IN	30	16.1	18.7	29.1	38.7	48.8	58.6	63.0
DES MOINES, IA	30	10.7	15.6	27.6	40.0	51.5	61.2	66.5
DUBUQUE, IA	30	7.7	12.7	25.0	37.4	48.0	57.1	62.0
SIoux CITY, IA	30	7.7	13.9	25.7	38.3	50.0	59.6	64.8
WATERLOO, IA	30	5.4	10.6	25.0	37.1	48.7	57.6	62.2
CONCORDIA, KS	30	15.7	20.3	30.0	41.2	51.9	61.9	67.8
DODGE CITY, KS	30	18.1	22.7	30.4	41.4	52.0	61.8	67.5
GOODLAND, KS	30	15.3	19.0	25.4	35.3	45.6	55.2	61.4
TOPEKA, KS	30	16.3	21.7	32.1	42.8	53.3	62.9	67.6
WICHITA, KS	30	19.2	23.7	33.6	44.5	54.3	64.6	69.9
GREATER CINCINNATI AP, KY	30	19.5	22.7	33.1	42.2	51.8	60.0	64.8
JACKSON, KY	30	24.2	27.5	37.4	46.0	54.2	61.9	65.2
LEXINGTON, KY	30	22.4	25.3	35.3	44.2	53.5	61.5	65.7
LOUISVILLE, KY	30	23.2	26.5	36.2	45.4	54.7	62.9	67.3
PADUCAH, KY	30	23.5	27.4	37.5	47.1	56.0	64.6	68.5
BATON ROUGE, LA	30	39.6	42.5	50.2	57.9	64.8	70.4	73.2
LAKE CHARLES, LA	30	41.1	44.0	50.7	58.7	65.7	71.6	73.6
NEW ORLEANS, LA	30	41.8	44.4	51.6	58.4	65.2	70.8	73.1
SHREVEPORT, LA	30	34.8	38.0	45.8	54.1	62.0	69.0	72.3
CARIBOU, ME	30	-1.6	0.7	14.9	29.0	40.1	49.1	54.5
PORTLAND, ME	30	11.4	13.5	24.5	34.1	43.4	52.1	58.3
BALTIMORE, MD	30	23.4	25.9	34.1	42.5	52.6	61.8	66.8
BLUE HILL, MA	30	17.6	19.2	27.5	36.6	46.5	55.5	61.7
BOSTON, MA	30	21.6	23.0	31.3	40.2	49.8	59.1	65.1
WORCESTER, MA	30	15.0	16.5	24.9	34.7	45.1	53.9	60.1
ALPENA, MI	30	8.8	8.3	18.0	30.1	39.2	48.0	54.0
DETROIT, MI	30	15.6	17.6	27.0	36.8	47.1	56.3	61.3

FLINT, MI	30	14.2	15.6	25.6	36.0	45.7	54.7	59.7
GRAND RAPIDS, MI	30	14.7	15.8	25.4	35.4	45.6	55.3	60.4
HOUGHTON LAKE, MI	30	8.4	8.2	18.2	31.6	42.0	50.6	55.4
LANSING, MI	30	13.3	14.2	24.5	35.1	44.9	54.5	59.0
MARQUETTE, MI	30	3.3	4.0	13.6	27.0	38.4	47.4	53.5
MUSKEGON, MI	30	17.7	18.0	25.4	35.4	45.1	54.4	60.2
SAULT STE. MARIE, MI	30	4.6	4.8	15.3	28.4	38.4	45.5	51.3
DULUTH, MN	30	-2.2	2.8	15.7	28.9	39.6	48.5	55.1
INTERNATIONAL FALLS, MN	30	-10.0	-4.0	11.4	27.8	39.6	49.5	54.6
MINNEAPOLIS-ST. PAUL, MN	30	2.8	9.2	22.7	36.2	47.6	57.6	63.1
ROCHESTER, MN	30	2.6	8.1	21.3	34.6	45.5	55.2	60.1
SAINT CLOUD, MN	30	-2.4	3.8	17.6	32.0	43.4	52.2	57.6
JACKSON, MS	30	32.7	35.7	44.1	51.9	60.0	67.1	70.5
MERIDIAN, MS	30	33.4	36.6	43.5	50.9	58.9	66.1	69.9
TUPELO, MS	30	30.9	34.0	43.2	51.0	59.5	66.5	70.6
COLUMBIA, MO	30	18.5	22.8	33.0	43.7	53.1	61.2	66.2
KANSAS CITY, MO	30	16.7	21.8	32.6	43.8	53.9	63.1	68.2
ST. LOUIS, MO	30	20.8	25.1	35.5	46.4	56.0	65.7	70.4
SPRINGFIELD, MO	30	20.4	25.0	34.4	44.1	53.2	61.9	66.6
BILLINGS, MT	30	13.7	19.4	25.2	34.0	43.3	52.0	58.3
GLASGOW, MT	30	1.2	7.9	19.0	32.0	42.5	51.3	56.7
GREAT FALLS, MT	30	11.6	17.2	22.8	31.9	40.9	48.6	53.2
HELENA, MT	30	9.6	15.9	22.3	30.6	39.6	48.3	53.4
KALISPELL, MT	30	12.7	18.1	23.9	31.1	38.4	44.1	47.1
MISSOULA, MT	30	15.4	20.9	24.9	30.9	37.9	46.1	50.1
GRAND ISLAND, NE	30	11.1	16.4	26.3	38.1	49.4	59.3	64.8
LINCOLN, NE	30	10.1	15.1	26.8	38.9	50.0	60.2	66.3
NORFOLK, NE	30	8.4	14.1	25.0	37.6	49.2	58.6	64.0
NORTH PLATTE, NE	30	8.6	14.3	23.0	33.9	44.6	54.1	60.1
OMAHA EPPLEY AP, NE	30	10.9	16.7	27.7	39.9	50.9	60.4	65.9
OMAHA (NORTH), NE	30	11.2	16.6	27.8	40.3	51.8	61.4	66.5
SCOTTSBLUFF, NE	30	11.8	16.8	22.1	31.5	41.8	52.7	58.7
VALENTINE, NE	30	6.6	11.9	20.9	32.9	44.1	54.0	60.4
ELKO, NV	30	13.4	19.9	25.0	29.5	36.8	44.6	50.3
ELY, NV	30	9.4	15.4	20.7	26.0	33.7	40.7	48.0
LAS VEGAS, NV	30	33.6	38.8	43.8	50.7	60.2	69.4	76.2
RENO, NV	30	20.7	24.2	29.2	33.3	40.1	46.9	51.3
WINNEMUCCA, NV	30	16.7	22.8	25.2	29.4	37.7	45.8	51.2
CONCORD, NH	30	7.4	10.4	22.1	31.5	41.4	51.2	56.5
MT. WASHINGTON, NH	30	-4.6	-3.2	5.4	16.1	28.5	37.9	43.0
ATLANTIC CITY AP, NJ	30	21.4	23.5	31.3	39.3	49.6	58.7	64.8
ATLANTIC CITY C.O., NJ	30	26.8	28.8	36.0	44.1	53.6	62.3	68.3
NEWARK, NJ	30	23.4	25.4	33.4	42.7	53.2	62.8	68.6
ALBUQUERQUE, NM	30	21.7	26.4	32.2	39.6	48.6	58.3	64.4
CLAYTON, NM	30	19.4	22.8	28.1	37.2	46.3	55.6	60.9
ROSWELL, NM	30	24.7	29.1	36.3	45.3	54.7	62.1	66.7
ALBANY, NY	30	11.0	13.8	24.5	35.1	45.4	54.6	59.6
BINGHAMTON, NY	30	14.3	15.3	24.7	35.2	46.2	54.6	59.7
BUFFALO, NY	30	17.0	17.4	25.9	36.2	47.0	56.5	61.9
ISLIP, NY	30	21.3	21.7	30.8	39.5	49.4	58.7	65.7
NEW YORK C. PARK, NY	30	25.3	26.9	34.8	43.8	53.7	63.0	68.4
NEW YORK (JFK AP), NY	30	24.9	26.3	34.0	42.8	52.4	61.8	68.1
NEW YORK (LAGUARDIA AP), NY	30	25.5	27.1	34.6	43.9	53.8	63.3	68.9
ROCHESTER, NY	30	16.3	16.6	25.7	35.9	46.3	54.3	59.6
SYRACUSE, NY	30	14.2	15.4	25.1	35.5	46.0	53.8	59.0
ASHEVILLE, NC	30	24.8	27.4	35.4	42.6	50.9	58.3	62.7
CAPE HATTERAS, NC	30	36.7	37.6	43.6	50.8	59.6	67.5	71.8
CHARLOTTE, NC	30	29.6	31.9	39.4	47.5	56.4	65.6	69.6
GREENSBORO-WNSTN-SALM-HGHPT, NC	30	26.6	29.3	37.4	45.6	54.7	62.6	66.9
RALEIGH, NC	30	28.8	31.3	38.7	46.2	55.3	63.6	68.1
WILMINGTON, NC	30	34.4	36.4	43.1	50.5	59.3	67.5	71.7
BISMARCK, ND	30	-1.7	5.1	17.8	31.0	42.2	51.6	56.4
FARGO, ND	30	-3.6	2.7	17.3	32.1	43.8	53.6	58.8
WILLISTON, ND	30	-1.8	5.3	17.4	30.5	42.2	51.4	56.5

AKRON, OH	30	16.9	18.9	28.6	37.9	48.2	57.0	61.5
CLEVELAND, OH	30	17.6	19.3	28.2	37.3	47.3	56.8	61.4
COLUMBUS, OH	30	18.5	21.2	31.2	40.0	50.1	58.0	62.7
DAYTON, OH	30	17.9	20.8	31.0	40.5	51.0	59.2	63.4
MANSFIELD, OH	30	16.8	18.9	28.6	38.2	48.3	57.3	62.0
TOLEDO, OH	30	14.9	17.0	26.8	36.4	46.7	56.0	60.6
YOUNGSTOWN, OH	30	16.4	17.9	27.3	36.8	46.2	54.9	59.2
OKLAHOMA CITY, OK	30	25.2	29.6	38.5	48.8	57.7	66.1	70.6
TULSA, OK	30	24.9	29.5	39.1	49.9	58.8	67.7	72.8
ASTORIA, OR	30	35.9	37.3	38.1	40.3	44.8	49.5	52.4
BURNS, OR	30	13.0	19.3	24.9	29.0	35.9	41.6	47.2
EUGENE, OR	30	35.2	37.0	38.9	40.6	44.5	49.7	52.8
MEDFORD, OR	30	30.4	32.2	35.4	38.0	43.4	50.7	55.2
PENDLETON, OR	30	27.2	31.6	35.4	39.4	45.8	52.9	58.0
PORTLAND, OR	30	33.7	36.1	38.6	41.3	47.0	52.9	56.5
SALEM, OR	30	32.7	34.1	35.6	37.7	42.2	48.3	50.9
GUAM, PC	30	71.0	70.9	71.1	72.1	72.6	72.9	72.4
KOROR, PC	30	75.1	75.0	75.3	75.9	76.1	75.5	75.4
KWAJALEIN, MARSHALL IS., PC	30	77.0	77.1	77.4	77.4	77.3	77.2	77.1
MAJURO, MARSHALL IS, PC	30	76.5	76.7	76.6	76.5	76.6	76.3	76.1
PAGO PAGO, AMER SAMOA, PC	30	75.4	75.4	75.6	75.2	75.2	75.3	74.5
POHNPEI, CAROLINE IS., PC	30	75.5	75.6	75.6	75.0	74.8	74.1	73.1
CHUUK, E. CAROLINE IS., PC	30	76.9	77.0	77.1	77.0	76.8	76.2	75.5
WAKE ISLAND, PC	30	72.7	72.1	72.9	73.4	75.1	76.7	77.3
YAP, W CAROLINE IS., PC	30	74.6	74.8	74.9	75.3	75.5	75.0	74.6
ALLENTOWN, PA	30	18.8	20.9	29.9	38.8	49.3	58.8	63.6
ERIE, PA.	30	18.2	17.9	28.1	37.7	47.8	57.6	62.6
MIDDLETOWN/HARRISBURG INTL APT	30	21.2	23.3	32.0	41.2	51.1	60.6	65.6
PHILADELPHIA, PA	30	22.8	24.8	33.2	42.1	52.7	61.8	67.2
PITTSBURGH, PA	30	18.5	20.3	29.8	38.8	48.4	56.9	61.6
AVOCA, PA	30	17.5	19.0	28.3	38.1	48.3	56.8	61.6
WILLIAMSPORT, PA	30	17.1	19.2	28.5	38.1	47.9	56.6	61.5
PROVIDENCE, RI	30	19.1	20.9	28.8	37.7	47.3	56.8	63.2
CHARLESTON AP, SC	30	37.7	40.0	47.5	53.9	62.9	69.1	72.7
CHARLESTON C.O., SC	30	40.8	43.2	50.3	57.8	66.0	72.4	75.4
COLUMBIA, SC	30	32.1	34.2	42.2	49.4	58.2	66.0	70.0
GREENVILLE-SPARTANBURG AP, SC	30	30.0	32.4	39.9	47.6	56.4	64.4	68.3
ABERDEEN, SD	30	-0.6	6.5	19.8	33.0	44.5	54.3	59.6
HURON, SD	30	2.3	9.1	21.7	34.0	44.8	55.5	61.7
RAPID CITY, SD	30	10.7	15.2	22.2	32.2	42.3	51.7	58.2
STIOUX FALLS, SD	30	3.3	9.7	22.6	34.8	45.9	56.1	62.3
BRISTOL-JHNSN CTY-KNGSPRT, TN	30	24.3	26.8	35.4	43.0	51.6	59.9	64.1
CHATTANOOGA, TN	30	28.0	31.1	39.0	46.8	55.4	63.9	68.3
KNOXVILLE, TN	30	26.0	29.1	36.6	44.6	53.1	61.8	66.0
MEMPHIS, TN	30	30.9	34.8	43.0	52.4	61.2	68.9	72.9
NASHVILLE, TN	30	26.5	29.9	39.1	47.5	56.6	64.7	68.9
OAK RIDGE, TN	30	25.1	27.7	35.7	43.5	52.2	60.5	64.9
ABILENE, TX	30	30.8	35.1	43.3	52.9	61.1	68.9	72.7
AMARILLO, TX	30	21.2	25.5	32.7	42.1	51.6	60.7	65.5
AUSTIN, TX	30	38.6	42.1	51.1	59.8	66.5	71.5	73.9
BROWNSVILLE, TX	30	49.9	52.5	59.1	66.5	72.0	74.9	75.7
CORPUS CHRISTI, TX	30	45.3	48.0	55.3	63.2	69.5	73.4	74.8
DALLAS-FORT WORTH, TX	30	32.7	36.9	45.6	54.7	62.6	70.0	74.1
DEL RIO, TX	30	38.5	42.9	50.9	59.2	66.3	71.7	74.1
EL PASO, TX	30	29.4	33.9	40.2	48.0	56.5	64.3	68.4
HOUSTON, TX	30	39.7	42.6	50.0	58.1	64.4	70.6	72.4
LUBBOCK, TX	30	24.6	28.6	36.4	46.7	55.8	64.3	68.0
MIDLAND-ODESSA, TX	30	28.5	32.6	40.2	49.4	58.1	65.7	68.5
PORT ARTHUR, TX	30	41.5	44.4	51.3	59.5	66.3	72.0	73.7
SAN ANGELO, TX	30	30.6	34.7	43.5	52.7	61.1	66.4	69.1
SAN ANTONIO, TX	30	37.9	41.3	49.7	58.4	65.7	72.6	75.0
VICTORIA, TX	30	42.5	45.4	52.8	61.0	67.7	72.7	74.6
WACO, TX	30	34.2	38.0	46.8	56.2	64.2	70.9	74.4
WICHITA FALLS, TX	30	27.6	32.1	40.6	50.3	59.1	68.0	72.7

SALT LAKE CITY, UT	30	19.3	24.6	31.4	37.9	45.6	55.4	63.7
BURLINGTON, VT	30	7.5	8.9	22.0	34.2	45.4	54.6	59.7
LYNCHBURG, VA	30	24.7	27.4	35.4	43.8	52.6	60.8	65.1
NORFOLK, VA	30	30.9	32.3	39.3	47.1	56.8	65.2	70.0
RICHMOND, VA	30	25.7	28.1	36.3	44.6	54.2	62.7	67.5
ROANOKE, VA	30	25.0	27.2	35.7	43.8	52.5	60.2	64.8
WALLOPS ISLAND, VA	30	27.4	29.3	36.5	44.6	54.4	63.3	68.5
OLYMPIA, WA	30	31.6	32.7	33.6	36.2	41.0	46.4	49.2
QUILLAYUTE, WA	30	33.7	34.9	35.2	37.3	41.8	46.5	49.4
SEATTLE C.O., WA	30	36.4	38.0	39.5	42.7	47.9	53.2	56.4
SEATTLE SEA-TAC AP, WA	30	35.2	37.4	38.5	41.2	46.3	51.9	55.2
SPOKANE, WA	30	20.8	25.9	29.6	34.7	41.9	49.2	54.4
YAKIMA, WA	30	21.8	26.4	30.8	35.5	42.3	49.2	53.1
SAN JUAN, PR	30	70.8	70.6	71.6	72.9	74.5	76.1	76.8
BECKLEY, WV	30	20.4	22.9	32.1	40.4	48.9	56.1	60.1
CHARLESTON, WV	30	23.0	25.7	35.0	42.8	51.5	59.8	64.4
ELKINS, WV	30	16.2	18.3	27.1	34.8	44.0	52.0	56.9
HUNTINGTON, WV	30	23.2	26.1	35.5	43.8	52.4	60.4	65.0
GREEN BAY, WI	30	5.8	9.5	21.4	33.9	43.7	53.5	58.9
LA CROSSE, WI	30	5.3	10.1	23.6	37.0	48.1	57.1	62.3
MADISON, WI	30	7.2	11.1	23.0	34.1	44.2	54.2	59.5
MILWAUKEE, WI	30	11.6	15.9	26.2	35.8	44.8	55.0	62.0
CASPER, WY	30	12.0	16.0	21.8	29.5	37.9	46.9	54.0
CHEYENNE, WY	30	15.2	18.1	22.1	30.1	39.4	48.3	54.6
LANDER, WY	30	7.8	13.6	22.1	30.7	39.9	48.8	55.9
SHERIDAN, WY	30	8.5	14.5	21.5	30.4	39.0	47.3	53.0

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