



# TECHNICAL SERVICE BULLETIN

**REF.:** BODY  
**NO.:** BO91-019  
**DATE:** SEPTEMBER 6, 1991  
**MODEL:** ALL MODELS

## NEW VEHICLE WASHING SCHEDULE FOR PAINT PROTECTION

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### ***INTRODUCTION:***

The condition known as "Acid Rain" is caused by airborne chemicals or particles in the atmosphere which mix with rain water, nighttime dew or high humidity to form acidic compounds. If these contaminants settle and remain on a painted vehicle surface, especially the horizontal areas of the hood, roof, and decklid, significant damage can occur. This damage is the result of actual etching of the paint and appears as pitting or water spots.

As acid rain droplets on the vehicle surface evaporate, the concentration (strength) of the acid increases, causing deeper and more rapid damage. This evaporation and corrosive action tends to occur more rapidly on dark colored cars as direct sun heat increases.

### ***PREVENTION OF DAMAGE:***

While the quality, durability and generalized resistance to environmental factors of paint of Toyota vehicles is continuously being improved, it remains the responsibility of the dealer to protect and maintain the quality of the vehicle's paint finish from the time of arrival at the dealership until retail delivery to the customer.

In areas known for high frequency and/or concentration of acid rain (see map), frequent vehicle washing during high heat/humidity periods (especially during spring & summer months) will minimize the potential for acid rain related paint damage. It is further recommended that either "Deionized" (DI) or "Reverse Osmosis" (RO) water be used to prevent water spotting.

# NEW VEHICLE WASHING SCHEDULE FOR PAINT PROTECTION (CONT'D)

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The following recommended washing schedule should be used for new vehicles stored outside in high frequency and/or concentration areas:

## **GENERAL WEATHER CONDITIONS:**

### Ambient Temperature

Between 60°-85° F.

86° F and above

### Washing Frequency

Once per week (minimum)

Twice per week (minimum)

## **RAIN (OR HEAVY DEW/FOG) CONDITIONS:**

### Ambient Temperature

Between 60°-85° F.

86° F and above

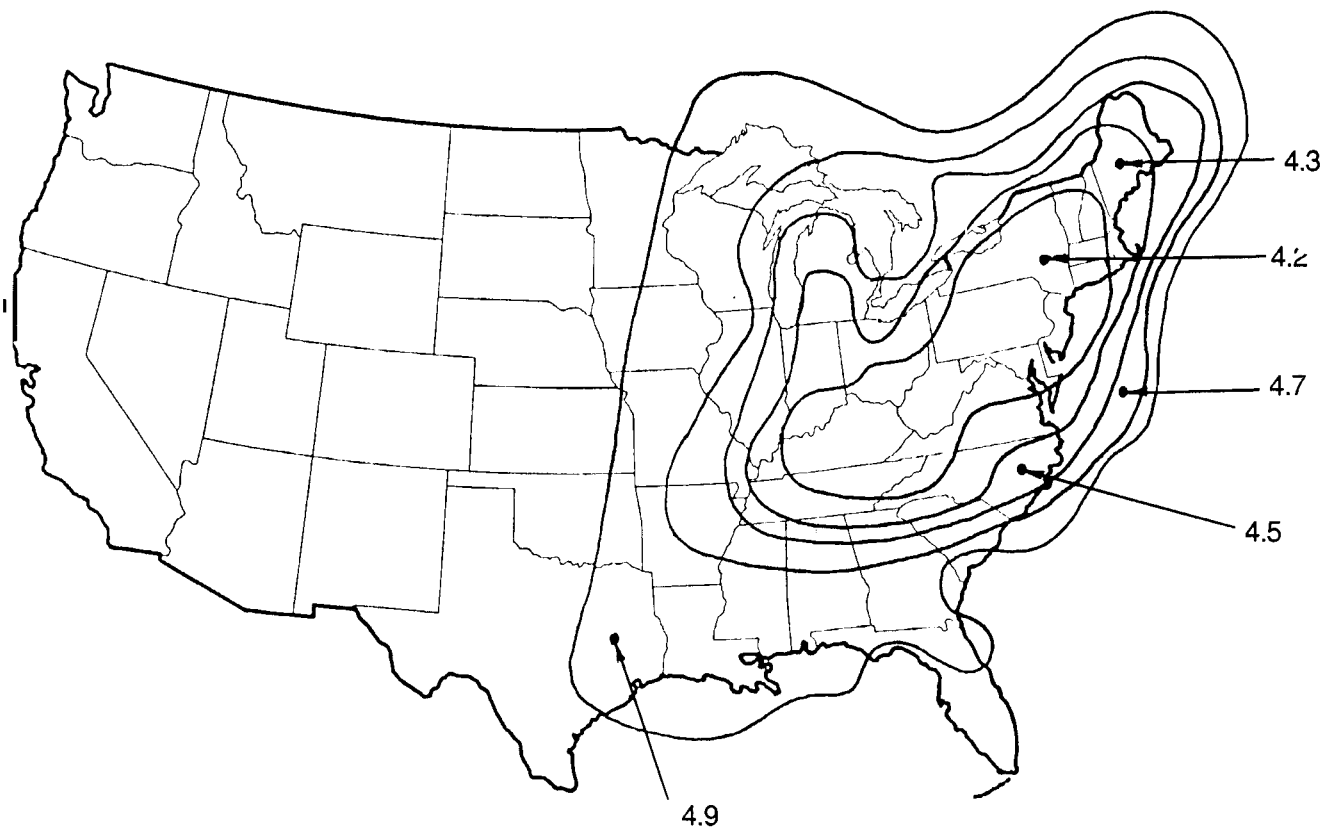
### Washing Frequency

Every other day

Every day\*

\* Affected vehicles must be washed within 6 hours or less after occurrence of an acid rain event, regardless of ambient temperature.

## **AVERAGE YEARLY CONCENTRATION (pH) OF ACID RAINFALL BY GEOGRAPHIC AREA**



**Note:** Areas inside rings denote high acid rain frequency and/or concentration where rain water pH (measurement of acidity) is frequently below 4.9.

Rain water with an acidic content measuring 4.9 pH or lower can damage painted surfaces (lower number indicates higher acidic content). For reference purposes, pure distilled water measures 7.0 on a pH scale.