



AUTO ALLIANCE
 DRIVING INNOVATION®

ALLIANCE OF AUTOMOBILE MANUFACTURERS NORTH AMERICAN FUEL SURVEY®

SUMMARY OF SAMPLING AND TESTING

- The Alliance of Automobile Manufacturers North American Fuel Survey® is conducted twice every calendar year. Sampling takes place in Winter (January of the CY) and Summer (July of the CY). Reports become available for purchase a few months following sampling.
- The survey is conducted by an expert independent laboratory contractor, which also oversees collection of the fuel samples tested.
- The Alliance of Automobile Manufacturers North American Fuel Survey® data reflect a single sample “snapshot” of market fuel properties from retail stations sampled in various cities.
- The number of stations varies from city to city, and cities and stations can vary from survey to survey.
- The cities and stations sampled are not selected to meet statistical criteria, or on the basis of market share.
- The survey examines the quality of commercially available gasoline and diesel fuel from selected retail service stations located in the United States, Canada and Mexico.
 - For gasoline, the survey covers two grades of unleaded gasoline (regular and premium octane grade) typically from 29 US cities, 8 Canadian cities, and 7 Mexican cities (one grade at some locations).
 - For diesel fuel, the survey covers three grades of diesel fuel, typically from 18 US cities, 6 Canadian cities, and 7 Mexican cities (No. 2D at all locations both seasons; No. 1D and 2D premium at Billings and Minneapolis/St. Paul winter only).
 - The list of cities typically sampled is included below.
 - Every effort is made to sample from the same service stations every year. No advance notice is provided to stations sampled. Certain stations do vary.
 - To date, the survey does not include greater than E10 gasoline (10% ethanol) or greater than B5 biodiesel fuels (unless >B5 is the only fuel offered) unless otherwise noted.
- Tables below list test protocols used. Some tests have been added, dropped, or modified over the years.
- Results are made available to Alliance members, and to parties wishing to purchase the reports subject to the Alliance Limited Licensing Agreement and Guidance for Use documents. Prior years’ data are also available for purchase from the Alliance.
- For a short time after tests are completed, sample “remainders” are offered, first come-first served, to members, and then any leftover can be purchased by any interested party.
- For further information, contact Dan Bowerson - dbowerson@autoalliance.org - 248.327.1777.

TABLE 1: Typical Gasoline Sampling Survey by City**USA:**

Albuquerque, New Mexico
 Atlanta, Georgia
 Billings, Montana
 Boston, Massachusetts
 Chicago, Illinois
 Cleveland, Ohio
 Dallas, Texas
 Denver, Colorado
 Detroit, Michigan
 Fairbanks, Alaska⁺
 Houston, Texas*
 Kansas City, Missouri
 Las Vegas, Nevada
 Los Angeles, California
 Memphis, Tennessee
 Miami, Florida
 Minneapolis/St. Paul, Minnesota
 New Orleans, Louisiana
 New York City, New York
 Philadelphia, Pennsylvania
 Phoenix, Arizona
 Pittsburgh, Pennsylvania*
 Salt Lake City, Utah
 San Antonio, Texas
 San Francisco, California
 Seattle Washington,
 St. Louis, Missouri
 Washington, D.C.
 Watertown, South Dakota

⁺excluded from national summary statistics

*summer only

CANADA

Edmonton, Alberta
 Halifax, Nova Scotia
 Montreal, Quebec
 St John, New Brunswick
 Toronto, Ontario
 Vancouver, British Columbia

MEXICO

Acapulco
 Coatzacoalcos
 Guadalajara
 Mexico City
 Monterrey
 Puebla
 Tijuana

TABLE 2 Tests Typically Conducted**Gasoline Tests :**

Distillation
 Drivability Index
 Vapor Pressure (EPA Equation)
 V/L Calc.
 Relative Density
 Sulfur (Ultra Low) ASTM D5453
 Oxygenates
 FIA/HC
 Octane, RON and MON
 Existent Gum
 Water Content
 C/H Calc.
 Electrical Conductivity (Winter)
 Peroxide (Summer)
 Subset of Samples: Manganese

Diesel Tests:

Flash Pt.
 Cloud Pt. (Winter Only)
 CFPP Cold Filter Plug Point (Winter only, starting in 2014)
 Distillation
 Kinematic Viscosity
 Cetane Number
 Cetane Index
 Cetane Additive Improver (discontinued in 2014)
 Rel. Density
 Pour Pt.
 Aromatics SFC
 Water
 Electrical Conductivity
 FAME
 Carbon Residue (Summer)
 Nitrogen (Summer)
 Sulfur (Ultra Low) ASTM D5453
⁺Subset of Diesel Samples:
 Rancimat
 Lubricity HFRR
 Peroxide

(END)