

Exploratory *Salmonella* Paired Sampling Paper

Data Dictionary

Exploratory Young Chicken Carcass Rehang Sampling Program

FSIS developed the Exploratory Young Chicken Carcass Rehang Sampling Program (EX_CHCAR_RH1 referred to as REHANG) to help inform the Salmonella Framework Initiative Process Control Docket ([FSIS 21-22](#)). For this exploratory sampling program, in-plant personnel collected young chicken carcass rinsate samples between April and November 2022 at rehang (i.e., immediately after hock cutting and prior to evisceration) from federal establishments that slaughtered greater than 20,000 head in the previous 12 months. These samples were collected during the same shift-day as standard young chicken carcass samples at post-chill (HC_CH_CARCO1) and were subsequently be paired for analysis. Establishments were assigned the number of EX_CHCAR_RH1 and HC_CH_CARCO1 samples each month (i.e., 2 or 5) and sampling continued until almost all establishments collected either 12 or 30 samples (i.e., approximately 6 months).

Data Dictionary

- Establishment
 - A letter/number combination uniquely identifying each establishment.
- EstablishmentID
 - A unique numeric identifier that is used to identify an establishment across data tables in the FSIS databases.
- EstablishmentName
 - The name of an establishment on its FSIS grant of inspection.
- DistrictNo
 - District in which the establishment is located. A list of Districts can be found in the [Office of Field Operations](#) web page.
- City
 - The city where the establishment is located.
- State
 - The state where the establishment is located.
- Production_volume
 - The production category of the establishment based on number of carcasses slaughtered in a year.
 - High = Greater than or equal to 10,000,000 birds/year.
 - Low = Less than 10,000,000 birds/year
- REHANG Collect Date

- The date the FSIS inspector collected the REHANG sample at the FSIS-regulated establishment.
- HC_CH_CARCO1 Collect Date
 - The date the FSIS inspector collected the HC_CH_CARCO1 sample at the FSIS-regulated establishment.
- REHANG Form Number
 - The form number used to uniquely identify a specific REHANG sample.
- HC_CH_CARCO1 Form Number
 - The form number used to uniquely identify a specific HC_CH_CARCO1 sample.
- REHANG Sample Number Not Analyzed
 - A numerical value indicating the receipt status of the REHANG sample the laboratory.
 - '0' = Sample received in acceptable condition
- CARCO1 Not Analyzed
 - A numerical value indicating the receipt status of the HC_CH_CARCO1 sample the laboratory.
 - '0' = Sample received in acceptable condition
- REHANG Salmonella
 - The result of the analysis for *Salmonella* species in the REHANG sample.
 - Negative = *Salmonella* species was not found in the sample.
 - Positive = *Salmonella* species was found in the sample.
- CARCO1 Salmonella
 - The result of the analysis for *Salmonella* species in the HC_CH_CARCO1 sample.
 - Negative = *Salmonella* species was not found in the sample.
 - Positive = *Salmonella* species was found in the sample.
- REHANG CFU ml
 - Result of the PCR method analysis to determine the amount of *Salmonella* in the REHANG sample that has been confirmed positive for *Salmonella*; reported as a quantitative result (CFU/ml).
- CARCO1 CFU ml
 - Result of the PCR method analysis to determine the amount of *Salmonella* in the HC_CH_CARCO1 sample that has been confirmed positive for *Salmonella*; reported as a quantitative result (CFU/ml).
- REHANG No CFU ml
 - Result of the PCR method analysis to determine the amount of *Salmonella* in the REHANG sample that has been confirmed positive for *Salmonella*; reported as a quantitative result (CFU/ml). Values of <10 were replaced with '9' to categorize those below the limit of quantification.
- CARCO1 No CFU ml
 - Result of the PCR method analysis to determine the amount of *Salmonella* in the HC_CH_CARCO1 sample that has been confirmed positive for *Salmonella*; reported as a

quantitative result (CFU/ml). Values of <10 were replaced with '9' to categorize those below the limit of quantification.

- REHANG Serotype
 - The name of the distinct variation of the tested species of bacteria from the REHANG sample. A list of the serotypes that are more commonly associated with human illness can be found on the Centers for Disease Control and Prevention (CDC) web site on their [National Salmonella Surveillance](#) web page.
- CARC01 Serotype
 - The name of the distinct variation of the tested species of bacteria from the HC_CH_CARC01 sample. A list of the serotypes that are more commonly associated with human illness can be found on the Centers for Disease Control and Prevention (CDC) web site on their [National Salmonella Surveillance](#) web page.
- REHANG APC mL
 - Result of the analysis for enumeration of total viable aerobic mesophilic flora, Aerobic Count (CFU/ml) in the REHANG sample.
- CARC01 APC mL
 - Result of the analysis for enumeration of total viable aerobic mesophilic flora, Aerobic Count (CFU/ml) in the HC_CH_CARC01 sample.
- REHANG EB mL
 - Result of the analysis for enumeration of total viable Enterobacteriaceae (CFU/ml) in the REHANG sample.
- CARC01 EB mL
 - Result of the analysis for enumeration of total viable Enterobacteriaceae (CFU/ml) in the HC_CH_CARC01 sample.

Notes and Limitations

Information about FSIS sampling laboratories and procedures can be found on the FSIS web site on the [Laboratories & Procedures](#) web page and the [Microbiology Laboratory Guidebook](#) (MLG) web page.

NULL values indicate that the specific variable is not available for that record.