

Continuous Diary Measurement

Nielsen Audio Client Delivery Applications

OBJECTIVES

Continuous Diary Measurement

Arbitrends, eBook, Market Types and Survey Names

TAPSCAN, PD Advantage, and Downloader

Audio Reference Applications

CONTINUOUS DIARY MEASUREMENT

What's Happening

- Monthly currency instead of quarterly
- Three month surveys
- Drop off old month & add on the new one

Where

- 46 markets currently measured 4x per year
- Markets representing 80% of the ad spend and population will have monthly reporting

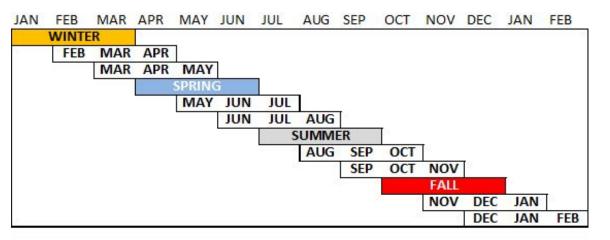
When

- May-June-July 2019 is first monthly survey
- Data begins releasing August 13th

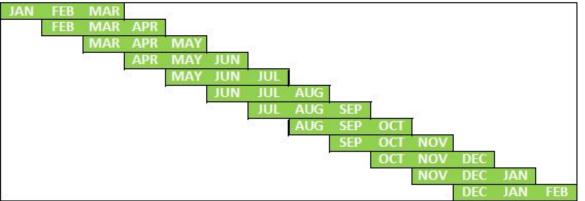
NO IMPACT to 2x per year markets or National deliverables (RADAR, Nationwide, NRD)

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DIARY 4X MARKETS → 12X CDM



BEFORE CDM



CDM

MONTHLY REPORTING: MORE DATA, MORE OFTEN

Survey Schedule

SURVEY	DATES
Winter 2019	January 3 – March 27
Spring 2019	March 28 - June 19
July 2019 (May-Jul)	April 25 – July 17
August 2019 (Jun-Aug)	May 23 – August 14
September 2019 (Jul-Sep)	June 20 - September 11
October 2019 (Aug-Oct)	July 18 – October 9
November 2019 (Sep-Nov)	August 15 – November 6
December 2019 (Oct-Dec)	September 12 - December 4

Release Schedule

nielsen	CDM 2019 DIARY DATA RELEASE SCHEDULE (Delivery Time is Noon Local)								
	July 2019 (May-July) 04/25-07/17		05/23	(June-August) -08/14		-09/11			
Market	Day	Date	Day	Date	Day	Date			
Akron	Tue	8/20	Wed	9/18	Fri	10/18			
Albany-Schenectady-Troy	Thu	8/15	Fri	9/13	Tue	10/15			
Albuquerque	Mon	8/19	Tue	9/17	Thu	10/17			
Allentown-Bethlehem	Thu	8/15	Fri	9/13	Tue	10/15			
Bakersfield	Fri	8/16	Mon	9/16	Wed	10/16			
Baton Rouge	Tue	8/13	Wed	9/11	Fri	10/11			
Birmingham	Wed	8/14	Thu	9/12	Mon	10/14			
Buffalo-Niagara Falls	Wed	8/14	Thu	9/12	Mon	10/14			
Charleston, SC	Tue	8/20	Wed	9/18	Fri	10/18			
Chattanooga	Fri	8/23	Mon	9/23	Wed	10/23			
Colorado Springs	Thu	8/22	Fri	9/20	Tue	10/22			
Columbia, SC	Wed	8/21	Thu	9/19	Mon	10/21			
Dayton	Thu	8/15	Fri	9/13	Tue	10/15			
Des Moines	Thu	8/22	Fri	9/20	Tue	10/22			
El Paso Fresno	Mon	8/19 8/15	Tue Fri	9/17 9/13	Thu Tue	10/17			
	Wed		Thu		Mon				
Ft. Myers-Naples	Thu	8/14	Fri	9/12	Tue	10/14			
Grand Rapids Greenville-New Bern-Jacksonville	Wed	8/21	Thu	9/13	Mon	10/15			
Greenville-New Bern-Jacksonville	Wed	8/21	Thu	9/19	Mon	10/21			
Harrisburg-Lebanon-Carlisle	Mon	8/19	Tue	9/17	Thu	10/14			
Honolulu	Fri	8/16	Mon	9/16	Wed	10/16			
Huntsville	Fri	8/23	Mon	9/23	Wed	10/10			
Jackson, MS	Fri	8/23	Mon	9/23	Wed	10/23			
Johnson City-Kingsport-Bristol	Mon	8/19	Tue	9/17	Thu	10/17			
Knoxville	Fri	8/16	Mon	9/16	Wed	10/16			
Little Rock	Wed	8/21	Thu	9/19	Mon	10/21			
Louisville	Tue	8/13	Wed	9/11	Fri	10/11			
Madison	Fri	8/23	Mon	9/23	Wed	10/23			
Mobile	Thu	8/22	Fri	9/20	Tue	10/22			
Monterey-Salinas-Santa Cruz	Tue	8/20	Wed	9/18	Fri	10/18			
New Orleans	Tue	8/13	Wed	9/11	Fri	10/11			
Oklahoma City	Tue	8/13	Wed	9/11	Fri	10/11			
Omaha-Council Bluffs	Fri	8/16	Mon	9/16	Wed	10/16			
Puerto Rico	Tue	8/13	Wed	9/11	Fri	10/11			
Richmond	Wed	8/14	Thu	9/12	Mon	10/14			
Rochester, NY	Wed	8/14	Thu	9/12	Mon	10/14			
Shreveport	Fri	8/23	Mon	9/23	Wed	10/23			
Spokane	Thu	8/22	Fri	9/20	Tue	10/22			
Springfield, MA	Wed	8/21	Thu	9/19	Mon	10/21			
Syracuse	Tue	8/20	Wed	9/18	Fri	10/18			
Toledo	Wed	8/21	Thu	9/19	Mon	10/21			
Tucson	Wed	8/14	Thu	9/12	Mon	10/14			
Tulsa	Fri	8/16	Mon	9/16	Wed	10/16			
Wichita	Thu	8/22	Fri	9/20	Tue	10/22			
Wilkes Barre-Scranton	Thu	8/15	Fri	9/13	Tue	10/15			
York	Mon	8/19	Tue	9/17	Thu	10/17			

CDM Surveys

CDM vs. PPM Market Type and Survey Names

Market Type	Survey Name	What's in a survey?
PPM Markets	July 2020	July PPM reporting period (4 weeks)
CDM Markets	July 2020 (May - July)	3 Months of May 2020 - July 2020
PPM wil	Markets will release 12 S I continue to release 13 S Period is not measured i	Surveys Per Year

Continuous Diary Measurement (CDM)

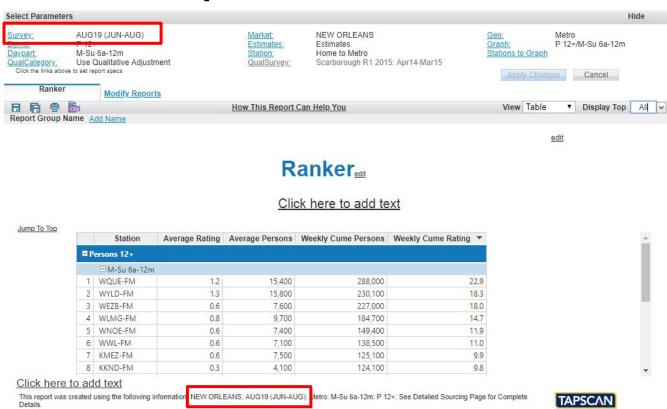
Additional Information

- DMA and TSA geographies will continue to be measured and reported for the June (formerly Spring) and December (formerly Fall) report periods
- Qualitative Diary service has been discontinued in CDM markets. All CDM markets have a Scarborough product offering for qualitative data

TAPSCAN

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Research Reports - New Short Format Survey Labels



Sourcing Pages - Long Format Survey Labels

Ranker Detailed Sourcing Summary

Market: NEW ORLEANS

Survey: Nielsen Radio August 2019 (June - August)

Geography: Metro

Daypart: Monday-Sunday 6a-midnight

Demo/Intab/Population:

Age/Gender	Population	Intab
Persons 12+	1,260,100	3,074

Stations: Home to Metro

Additional Notices:

Estimates reported for dayparts which start and end between 12m and 5a are based on the 5a-5a broadcast day. Estimates for all other dayparts are based on the 12m-12m calendar day.

Please note: The intab reported is for the full twelve weeks of the survey. Users should note that reports run on fewer than twelve weeks are based on smaller sample sizes.

Stations qualify to be reported if they have received credit for five or more minutes of listening and meet a minimum reporting standard of 0.1 AQH unrounded rating in the Metro survey area, Monday-Sunday 6AM-Midnight, during the survey period. If a current Nielsen client does not meet this minimum reporting standard, Nielsen will report the station as long as credited listening is received from at least one diarykeeper.

Estimates are derived from the diaries that provided the audience data for the Nielsen Radio Market Report and are subject to the qualifications and limitations stated in that Report. The TAPSCAN Web software product is accredited by the Media Rating Council and reports both accredited and non-accredited data. For a list of the accredited and non-accredited Nielsen radio markets and data available through TAPSCAN, click here:

http://www.arbitron.com/downloads/MRC Accredited Services Markets.pdf

Trend Report - Survey Labels PDF

Trend Report

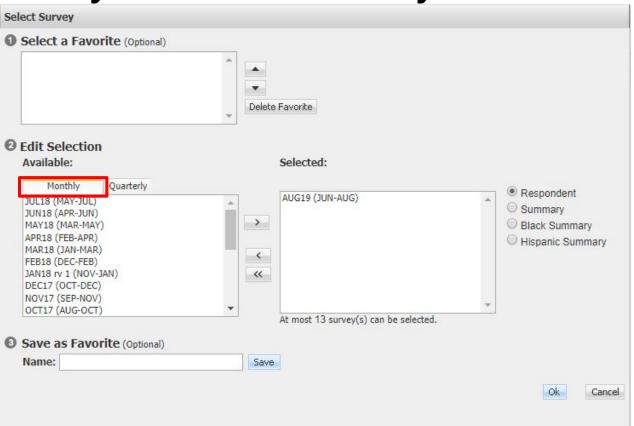
NEW ORLEANS (Metro Survey Area)

JUL18 (MAY-JUL) JUN18 (APR-JUN), MAY18 (MAR-MAY), APR18 (FEB-APR), MAR18 (JAN-MAŘ), FEB18 (DEC-FEB), JAN18 rv 1 (NOV-JAN), DEC17 (OCT-DEC), NOV17 (SEP-NOV), OCT17 (AUG-OCT), SEP17 (JUL-SEP), AUG17 (JUN-AUG), JUL17 (MAY-JUL)

Station Rankings Based on: User Selected

	Station	Estimates	JUL17 (MAY- JUL)	AUG17 (JUN- AUG)	SEP17 (JUL- SEP)	OCT17 (AUG- OCT)	NOV17 (SEP- NOV)	DEC17 (OCT- DEC)	JAN18 rv 1 (NOV- JAN)	FEB18 (DEC- FEB)	MAR18 (JAN- MAR)	APR18 (FEB- APR)	MAY18 (MAR- MAY)	JUN18 (APR- JUN)	JUL18 (MAY- JUL)*	Last Survey	Last Year
Persons	s 12+				(6)								0				
M-Si	u 6a-12m						-										
1	WQUE-FM	Average Rating *	1.0	1.2	1.2	1.4	1.4	1.4	1.4	1.3	1.4	1.5	1.5	1.5	1.4	-6.7	40.0
		Average Persons	12,800	15,400	15,400	17,300	17,100	18,300	17,300	16,800	18,000	18,400	19,200	18,700	17,600	-5.9	37.5
		Weekly Cume Persons	279,300	288,000	280,600	265,200	268,400	281,300	279,400	280,200	281,300	299,500	322,400	321,600	315,700	-1.8	13.0
		Weekly Cume Rating	22.2	22.9	22.3	21.0	21.2	22.3	22.1	22.2	22.3	23.7	25.5	25.5	25.0	-2.0	12.6
2	WYLD-FM	Average Rating *	1.3	1.3	1.2	1.4	1.4	1.4	1.3	1.3	1.4	1.5	1.5	1.4	1.3	-7.1	0.0
		Average	16,000	15,800	14,700	17,300	17,500	18,300	16,700	15,900	17,100	18,800	18,900	17,700	16,100	-9.0	0.6

Survey Menu - New Monthly Tab



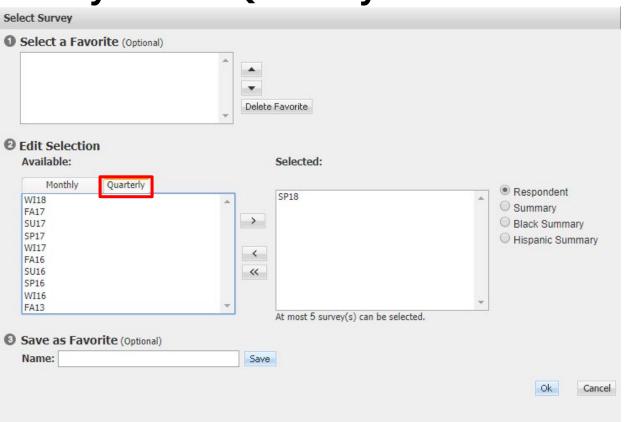
Monthly Tab will appear when July 2019 (May-July) survey delivers if you have access to that survey.

If you only subscribe to former quarterly equivalents, your first Monthly survey to appear will be September 2019 (July - September).

Trend Break!

No new quarterly surveys appear in quarterly tab after Spring 2019.

Survey Menu - Quarterly Tab



Trend Break!

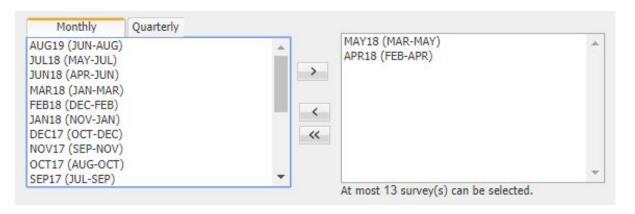
No more quarterly surveys appear in quarterly tab after Spring 2019.

In 3.5 years, the quarterly tab will disappear when quarterly back data ages out of system.

RLD and Summary filtering options remain the same for both Monthly and Quarterly surveys.

Do Not Overlap Surveys

User can select the following for a multi-book average: APR (FEB-APR), MAY (MAR-MAY)



Selecting the APR and MAY surveys is not selecting 2 discrete months of intab for April and May.



Buyer Beware:

This average would

- Count FEB once
- Count MAR & APR twice
- Count MAY once

DON'T AVERAGE OVERLAPPING SURVEYS

Important Safety Tip: "Don't Cross the Streams"

Full Year Survey Combo Before:

Winter, Spring, Summer, Fall

No overlapping survey months.

Same Full Year Survey Combo in CDM:

March, June, September, December

No overlapping survey months. No problem

When multi-book averaging select survey releases that do not have shared survey months.

MULTI-BOOK AVERAGING IN CONTINUOUS DIARY MEASUREMENT (CDM)

WHEN THIS IS THE CURRENT SURVEY	USE THESE SURVEYS FOR A 2-BOOK AVERAGE (6 months)	USE THESE SURVEYS FOR A 3-BOOK AVERAGE (9 months)	USE THESE SURVEYS FOR A 4-BOOK AVERAGE (12 months)
JAN (Nov-Jan)	OCT (Aug-Oct) JAN (Nov-Jan)	JUL (May-Jul) OCT (Aug-Oct) JAN (Nov-Jan)	APR (Feb-Apr) JUL (May-Jul) OCT (Aug-Oct) JAN (Nov-Jan)
FEB (Dec-Feb)	NOV (Sep-Nov) FEB (Dec-Feb)	AUG (Jun-Aug) NOV (Sep-Nov) FEB (Dec-Feb)	MAY (Mar-May) AUG (Jun-Aug) NOV (Sep-Nov) FEB (Dec-Feb)
MAR (Jan-Mar)	DEC (Oct-Dec) MAR (Jan-Mar)	SEP (Jul-Sep) DEC (Oct-Dec) MAR (Jan-Mar)	JUN (Apr-Jun) SEP (Jul-Sep) DEC (Oct-Dec) MAR (Jan-Mar)
APR (Feb-Apr)	JAN (Nov-Jan) APR (Feb-Apr)	OCT (Aug-Oct) JAN (Nov-Jan) APR (Feb-Apr)	JUL (May-Jul) OCT (Aug-Oct) JAN (Nov-Jan) APR (Feb-Apr)
MAY (Mar-May)	FEB (Dec-Feb) MAY (Mar-May)	NOV (Sep-Nov) FEB (Dec-Feb) MAY (Mar-May)	AUG (Jun-Aug) NOV (Sep-Nov) FEB (Dec-Feb) MAY (Mar-May)
JUN (Apr-Jun)	MAR (Jan-Mar) JUN (Apr-Jun)	DEC (Oct-Dec) MAR (Jan-Mar) JUN (Apr-Jun)	SEP (Jul-Sep) DEC (Oct-Dec) MAR (Jan-Mar) JUN (Apr-Jun)

PD Advantage/Corporate Rollup

PD Advantage Summary

- Same CDM Survey Labeling
- PDA Reports you know and love
- Trend up to 13 Surveys for CDM
- Corporate Roll-Up: CDM and PPM Together in Monthly Tab

Reports - New Short Format Survey Labels

Survey: JAN18 (NOV-JAN) - JUL18 (M...

Demo: P 12+
Report Daypart: M-Su 6a-12m
Average of January 2018 (November-January) - July 2018 (May-July)

Market: NEW ORLEANS
Station: WNOE-FM
Detailed Dayparts: M-F 6a-10a; M-F...

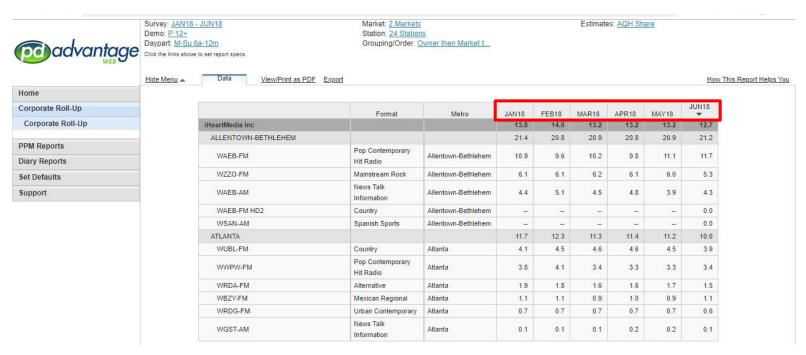
Detailed Dayparts: M-F 6a-10a; M-F...

Hide Menu
Trend Compare Pop/In-Tab View/Print as PDF Export

How This

	JAN18 (NOV-JAN)	FEB18 (DEC-FEB)	MAR18 (JAN-MAR)	APR18 (FEB-APR)	MAY18 (MAR-MAY)	JUN18 (APR-JUN)	JUL18 (MAY-JUL)	7-Book Average
Estimates								
AQH Share	4.3	4.2	4.4	4.3	5.0	4.9	5.0	4.6
AQH Share Rank	8	8	7t	8	4	5	4t	7
AQH Persons	6,900	6,500	6,800	6,900	8,100	8,100	8,100	7,300
Weekly Cume Persons	145,800	162,700	157,700	159,400	153,600	160,000	159,000	156,900
Weekly Cume Rating	11.5	12.9	12.5	12.6	12.2	12.7	12.6	12.4
Weekly Time Spent Listening (HH:MM)	6:00	5:00	5:30	5:30	6:45	6:30	6:30	6:00
Weekly Tune-Ins	5.3	4.7	5.0	5.1	5.6	5.3	5.0	5.1
Weekly Time Spent per Tune-In (HH:MM)	1:07	1:05	1:05	1:05	1:12	1:12	1:18	1:09
P1 Information								
P1 AQH Persons	4,800	4,400	4,700	4,800	5,900	6,100	6,100	5,300
P1 % of AQH Persons	70%	68%	69%	70%	73%	75%	75%	73%
P1 Weekly Cume Persons	55,000	58,700	60,900	61,800	66,400	71,900	66,600	63,100
P1 % of Weekly Cume Persons	38%	36%	39%	39%	43%	45%	42%	40%
P1 Weekly Time Spent Listening (HH:MM)	11:00	9:30	9:45	9:45	11:15	10:45	11:30	10:30
P1 Weekly Tune-Ins	8.8	7.9	8.1	8.2	8.5	8.0	7.5	8.1
P1 Weekly Time Spent per Tune-In (HH:MM)	1:15	1:12	1:13	1:11	1:20	1:21	1:33	1:18
P1 Weekly Diaries	131	147	160	175	166	162	144	155
P1 % of Station Weekly Diaries	40%	38%	40%	40%	44%	44%	43%	41%
When I'm P1, Who's the Top P2?	WEZB-FM	WLMG-FM	WLMG-FM	WEZB-FM	WEZB-FM	WEZB-FM	WEZB-FM	
% of P1 Listeners	15%	16%	14%	15%	14%	15%	17%	
When I'm P2, Who's the Top P1?	WLMG-FM	WEZB-FM	WEZB-FM	WEZB-FM	WEZB-FM	WEZB-FM	WEZB-FM	
% of P2 Listeners	20%	13%	18%	21%	21%	24%	25%	

Reports - Corporate Roll-Up



CDM & PPM Markets can both be run with a Monthly Survey.

PPM Markets = 4 weeks

CDM Markets = 12 weeks

PD Advantage

What's Different with CDM

- Some Reports are Moving to Unweighted Estimates
 - Monthly Tracking Report
 - Sub-Survey Functionality in a Ranker
 - Sub-Survey Functionality in a Trender
- Diary Comments

Some Reports are Moving to Unweighted Estimates

- A diary keeper who is in March will be used in the following surveys:
 - MAR (JAN-FEB-MAR)
 - APR (FEB-MAR-APR)
 - MAY (MAR-APR-MAY)
- Each survey has its own weighting
- A diary keeper will have a different weight depending on the survey used
- Different weighting = different estimates for Cume, AQH, etc. for the component months
- Unweighted Estimates provide consistent month-by-month measures of diary counts and quarter-hour counts

Some Reports are Moving to Unweighted Estimates

Monthly Tracking Report

	NOV17	DEC17	JAN18	FEB18	MAR18	APR18	MAY18
WAEB-FM							
Quarter Hours	2,670	3,354	3,579	2,680	4,114	3,665	3,779
% of Market Quarter Hours	8.7%	9.6%	10.7%	7.8%	10.6%	10.3%	12.1%
Station Diaries	113	148	158	136	155	156	168
% of Market Diaries	22.8%	26.1%	29.3%	24.5%	25.3%	27.5%	31.1%
WCTO-FM							
Quarter Hours	3,915	3,700	2,790	4,625	3,156	3,443	2,837
% of Market Quarter Hours	12.8%	10.6%	8.3%	13.5%	8.1%	9.7%	9.1%
Station Diaries	94	118	97	140	105	126	104
% of Market Diaries	19.0%	20.8%	18.0%	25.3%	17.1%	22.2%	19.2%

- Unweighted Estimates still provide feedback on the individual months
- Same Estimates used in the CDM Sub-Survey Ranker and Sub-Survey Trender

Diary Comments

Mirrors the Survey Releases

- Diary Comments will be delivered the same as the data:
 - Rolling 3 months
 - MAR = diary comments from the months of Jan, Feb, and March
 - APR = diary comments from the months of months of Feb, Mar, and Apr
 - MAY = diary comments from the months of months of Mar, Apr, and May
 - Will not be release the 4 week chunks individually
- Select, sort, or see by Survey Week is not available with CDM

Arbitrends

What remains the same for Arbitrends?

- No changes in the markets that have Arbitrends
- No changes in the Arbitrends software or survey labels
- Arbitrends can not be used for transactional purposes
- Limited demos/dayparts
- Arbitrends file format stays the same

What's new for Arbitrends?

- Estimates for Arbitrends will match the estimates in the 12 Diary RLD releases
- Arbitrends data releases the same day as currency

EBook

What's changed in Ebook?

- Estimate pages no longer included in E-book for CDM markets
- Only the survey disclosure and market information will be included
- Sample Summary information will be updated monthly and reflects the whole survey period

What remains the same for EBook?

- Ebook is the source for all MRC required disclosures for each survey delivered.
- No changes to Maps
- No changes to Station Info
- No changes to Sample Performance Pages

Downloader

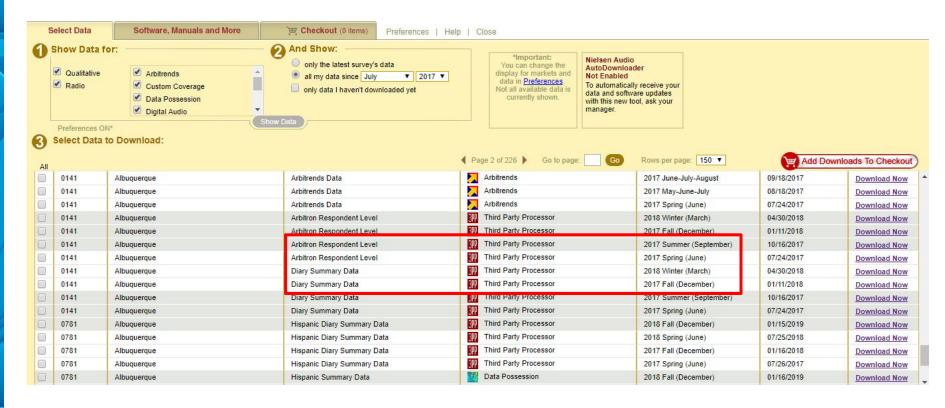
Downloader

New Survey Labels for All Diary Markets

Downloader survey labels will be modified to display both former quarterly equivalent names and new monthly average survey names.

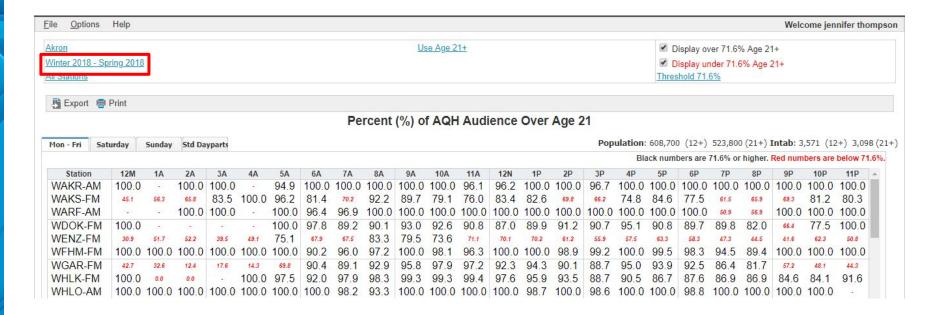
- Spring (June)
- Applies to all Diary markets in downloader not just CDM markets
- Planned to start on July 27 before the July 2019 CDM data releases

Downloader Label Changes for All Diary Surveys



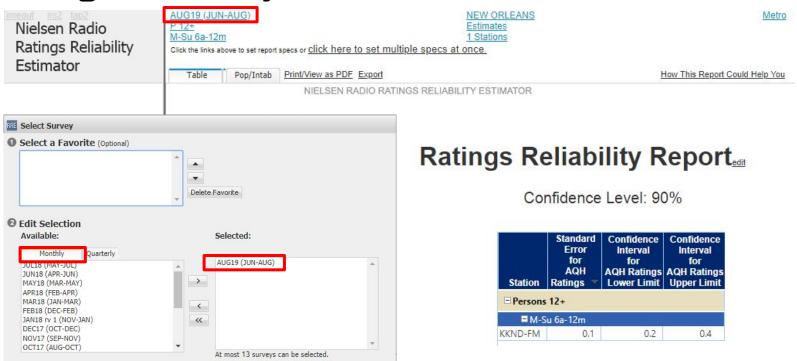
Audio Reference Applications

18+/21+ Composition Report



18+/21+ Composition Report **remains quarterly** with **quarterly labels**.

Ratings Reliability Estimator



RRE has been updated with new Monthly survey selections tab. No change to confidence intervals.

Delivery Schedule



DELIVERY DATES FOR YOUR NIELSEN AUDIO SERVICES

To find the delivery date for a Nielsen Audio service, first select a market, then choose a survey then a service from the drop-down menus. Click the "Run Report" button to see your selected schedule. To export your selected schedule as a comma-delimited (.csv) file, click the "Export" button.

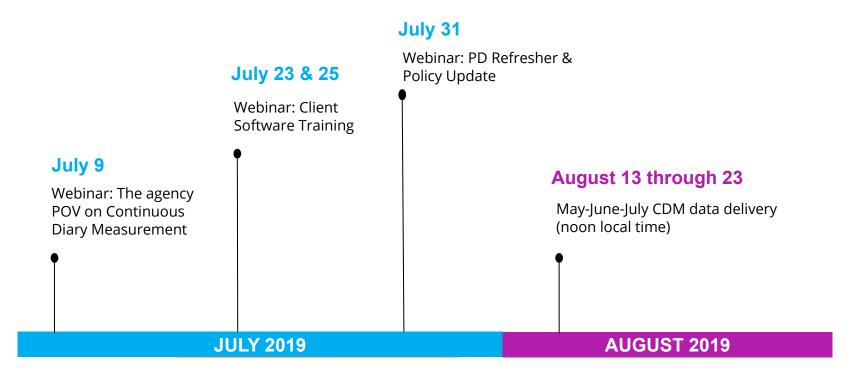
Run Report

Market	Service	Survey	Date	Time
Akron	eBook	Jul 2019 (May-Jul)	8/20/2019	12:00
Albany-Schenectady-Troy	eBook	Jul 2019 (May-Jul)	8/15/2019	12:00
Albuquerque	eBook	Jul 2019 (May-Jul)	8/19/2019	12:00
Allentown-Bethlehem	eBook	Jul 2019 (May-Jul)	8/15/2019	12:00
Bakersfield	eBook	Jul 2019 (May-Jul)	8/16/2019	12:00
Baton Rouge	eBook	Jul 2019 (May-Jul)	8/13/2019	12:00
Birmingham	eBook	Jul 2019 (May-Jul)	8/14/2019	12:00
Buffalo-Niagara Falls	eBook	Jul 2019 (May-Jul)	8/14/2019	12:00
Charleston, SC	eBook	Jul 2019 (May-Jul)	8/20/2019	12:00
Chattanooga	eBook	Jul 2019 (May-Jul)	8/23/2019	12:00

Delivery Schedule has been updated with CDM market types and survey labels

Improved the performance of the application and included more future survey information

KEY DATES AND UPCOMING WEBINARS



Continuous Diary MeasurementFresher Data = Better Decisions