Expanding Record-Keeping Study Methodology to Assess Structure and Availability of Data in Business Records

Melissa A. Cidade

Diane K. Willimack

Kristin Stettler

Demetria V. Hanna

Sixth International Conference on Establishment Surveys (ICES VI) Thursday, June 17, 2021

Any views expressed are those of the authors and not necessarily those of the U.S. Census Bureau. The U.S. Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied. (Approval ID: CBDRB-FY21-ESMD001-016)



In-Scope Economic Surveys

Manufacturing

- Annual Survey of Manufactures (ASM)
- Manufacturers' Unfilled Orders Survey (M3UFO)
- Management and Organizational Practices Survey (MOPS)

Trade

- Annual Retail Trade Survey (ARTS)
- Annual Wholesale Trade Survey (AWTS)

Services

Service Annual Survey (SAS)

Multisector

- Annual Capital Expenditures Survey (ACES)
- Information and Communication Technology Survey (ICTS)

Demographic

- Annual Survey of Entrepreneurs (ASE)
- Survey of Business Owners (SBO)

Business Register (Sampling Frame)

- Business and Professional Classification Survey (SQ-CLASS)
- Company Organizational Survey (COS)

Research Questions:

- **1.** Definitions: how do businesses define themselves relative to the Census Bureau definitions?
- 2. Accessibility: how accessible are key data points at varying business units?
- 3. Burden: how resource intensive is gathering data at these varying business units?



In-Scope Businesses and Respondents

Eligibility Criteria:

- Sampled in at least two in-scope surveys
- In at least two industrial sectors
- More than one establishment

	Phase 1	Phase 2					
Number of In	dustries	*					
Three or fewer	16	25					
Four or more	5	5					
Number of establishments*							
30 or fewer	9	19					
31 or more	12	11					
*Numbers may not sum to total interviews because of missing data.							



Phase 1 Interviewing



5

Phase 1: The Chart of Accounts

CHART OF ACCOUNTS	
As of 12/31/20XX	
ASSETS	EXPENSES
100 Checking - Operating Account	500 Gross Payroll
101 Checkinf - Other	501 Rent
102 Retainer Checking Account	502 Interest
103 Trust Checking Account	505 Taxes - FICA Expense
105 Reserve Account	506 Taxes - DC DOES
115 Petty Cash	507 Taxes - FUTA Unemployment
116 Postage	508 Taxes - DC Personal Property
122 Assets	509 Taxes - DC Professional
130 Cost Advanced	510 Taxes - Other
	515 Repairs
TOTAL ASSETS	516 Employee Benefits
	517 Employee ABRA
LIABILITIES	518 Office Move
200 Accounts Payable	510 Onice Move
202 Retainers on Deposits: Contra - a/c	520 Library & Subscriptions
203 Trust A/C	520 Einary & Gasselpitons
220 US & FICA Taxes Withheld	521 Equipment Vental
221 MD/DC Taxes Withheld	525 Telephone Expense
221 MD/DO Taxes Withheid	520 Odphies
	527 OLL 528 Food
	530 Entertainment
INCOME	530 Eneraliment
301 Fees	531 Actor
305 Interest Income	532 Dies
306 Dividend Income	533 Maineurg 534 Parking Expense
310 Other Income	535 Liability & Cas. Insurance
310 Other Income	535 Liability & Cas. Insurance
TOTAL INCOME	
TOTAL INCOME	537 Postage Expense
FOUITY	538 LEXIS Expense
EQUITY	540 Miscellaneous
Partners Equity	541 Costs Advanced - Uncollectible
	542 Depreciation Expense
420 Capital	549 Charitable Contributions
	550 Other Non-Deductible Expenses
	TOTAL EXPENSES:
	TOTAL LIABILITIES & STOCKHOLDERS EQUITY



Phase 1 Findings





Phase 2 Interviewing



8

Definitions and Equivalencies

Company

- Highest level
- Easily understood

Establishment

- Location
- Region
- Not applicable

Line of Business

- Revenue stream
- Kind of Activity
- Not applicable start Here >



General and Specific Industry

NAICS works well....

"These [NAICS codes] are a good fit. Most of what we do would fall under the first one.

"[I] agree with the [given] NAICS."

"Specific industry: that's a perfect fit. General industry: that works as well, too."

...until it doesn't.

"Yes, I am familiar, but I hate them. They have me in warehousing, and say 'You operate the warehouse' but we do not. Not what we do."

"Somewhat familiar with. Do both at many locations. So one NAICS wouldn't apply to one location. We did not have specific NAICS looked up in advance. Mix within locations."

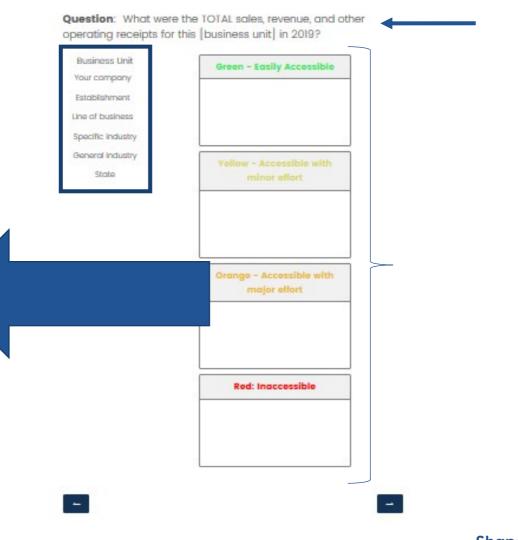
"All other codes are coming from a long 2020CENSUS.GOV Pre-decisional -- Disclosure Prohibited – Title 13 Pre-decisional

Card Sort



Sort into the four categories below how accessible or inaccessible the answer to this question is at each of these business units for your business. You will drag each of the six business units into one of the four categories.

- GREEN: Easily accessible
- Yallow: Accessible with minor effort
- ORANGE: Accessible with major effort
- RED: Inaccessible





Defining Accessibility

Green:

"Green means go. Green means info is available."

"Can run a report and get information."

"Green is anything I pull directly off of a financial statement that I'm already producing."

Yellow:

"I'd probably have to reach out for help."

"I would run a new report for, but not have to do a lot of analysis and digging to find [the data], or I can modify an existing report."

Orange:

"No one has any idea what we are looking for so they need to dig. If we don't know who to ask for it or know where to get it, but are pretty sure the data exist."

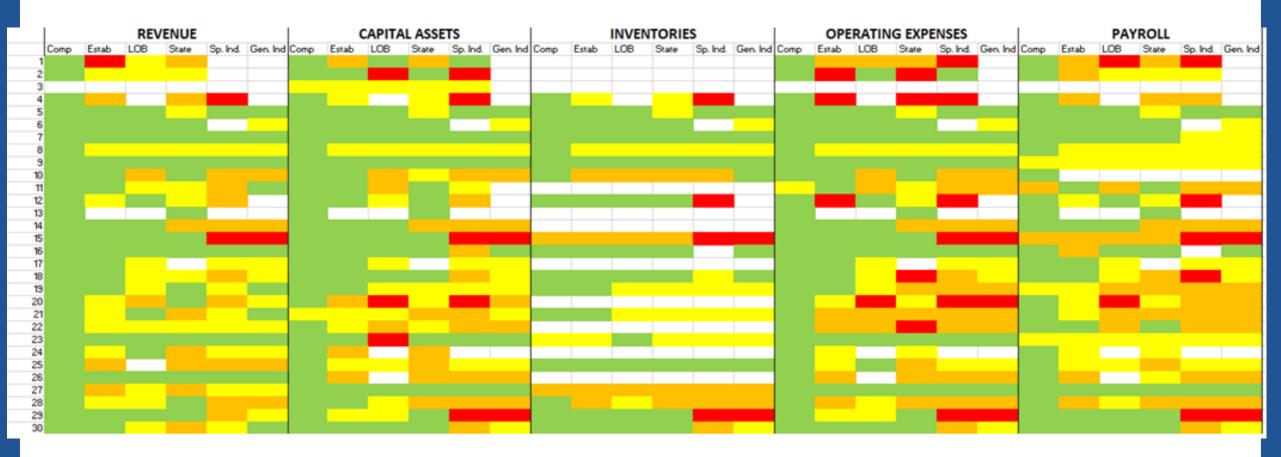
"Orange would take more effort - involving other people or creating additional reporting that we don't normally run."

Red:

"Red is inaccessible; there's no way for me to get that information, and it not tracked or maintained."

"Red is we just can't pull it."





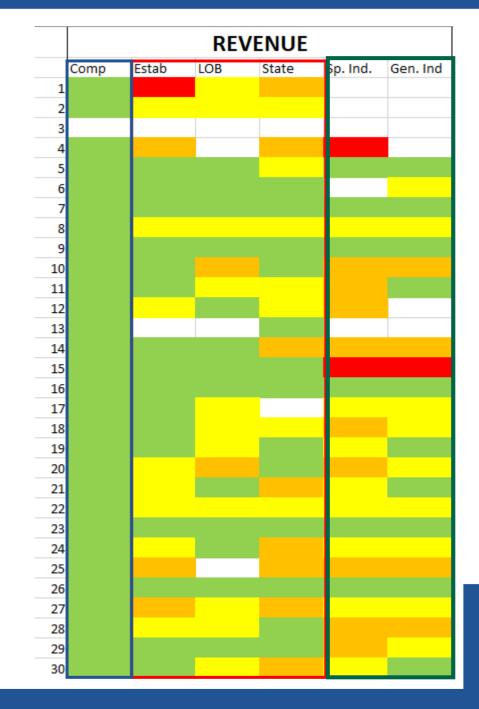


Card Sort: Revenue

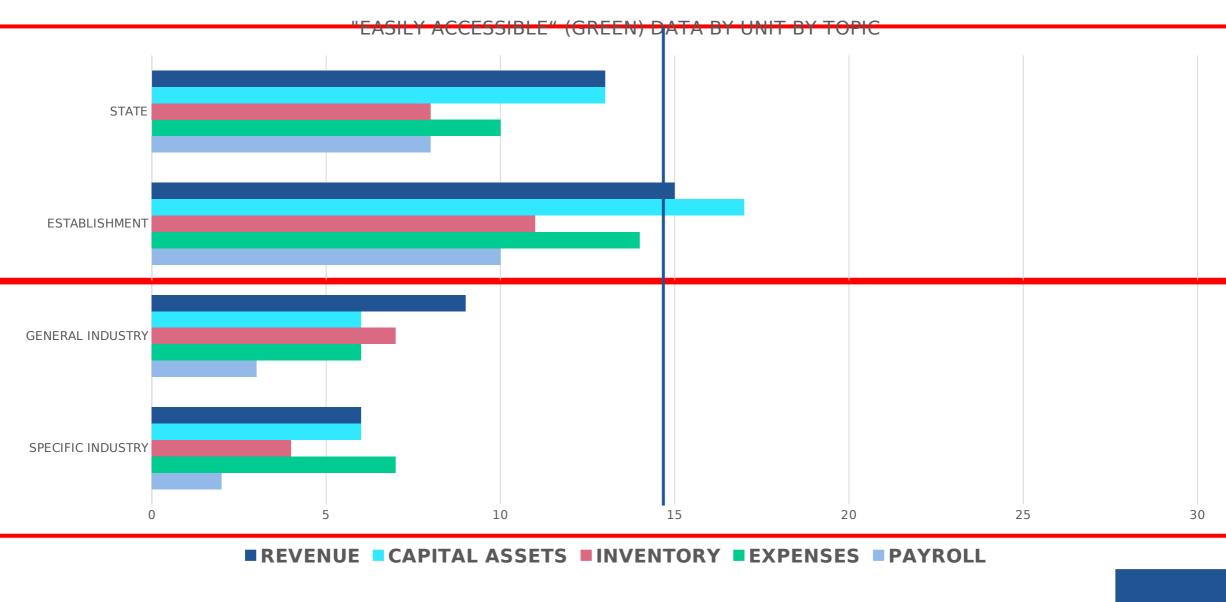
Question:

What were the TOTAL sales, revenue, and other operating receipts for this [business unit] in 2019?

REVENUE					
			ORANG		
	GREEN	YELLOW	E	RED	X
COMPANY	29	U	U	U	1
ESTABLISHMENT	15	9	3	1	2
LINE OF					
BUSINESS	13	10	2	U	5
STATE	13	8	7	0	2
SPECIFIC					
INDUSTRY	6	7	9	2	6
GENERAL					
INDUSTRY	9	9	4	1	7
2020CENSUS.C)re decisio	nal Dias	losure Pro	hihitod







2020CENSUS.GOV Pre-decisional -- Disclosure Prohibited — Title 13 U.S.C.



Key Takeaways:

- Using a generic Chart of Accounts during interviewing helps to center respondents to the task at hand.
- Use cognitive methodology to give context to the resultant data.
- Card sorts can be a useful tool in establishment surveys.
- Visualization of qualitative data can have a powerful impact with stakeholders.



Thank you!

Diane K. Willimack

<u>diane.k.willimack@censu</u> <u>s.gov</u> 1+ (301) 763-3538

Melissa A. Cidade

<u>melissa.cidade@census.g</u> <u>ov</u> 1+ (301) 763-8325

Demetria V. Hanna <u>demetria.v.hanna@census.</u> <u>gov</u> 1+ (301) 763-3351

Kristin Stettler kristin.j.stettler@census.go ⊻ 1+ (301) 763-7596

