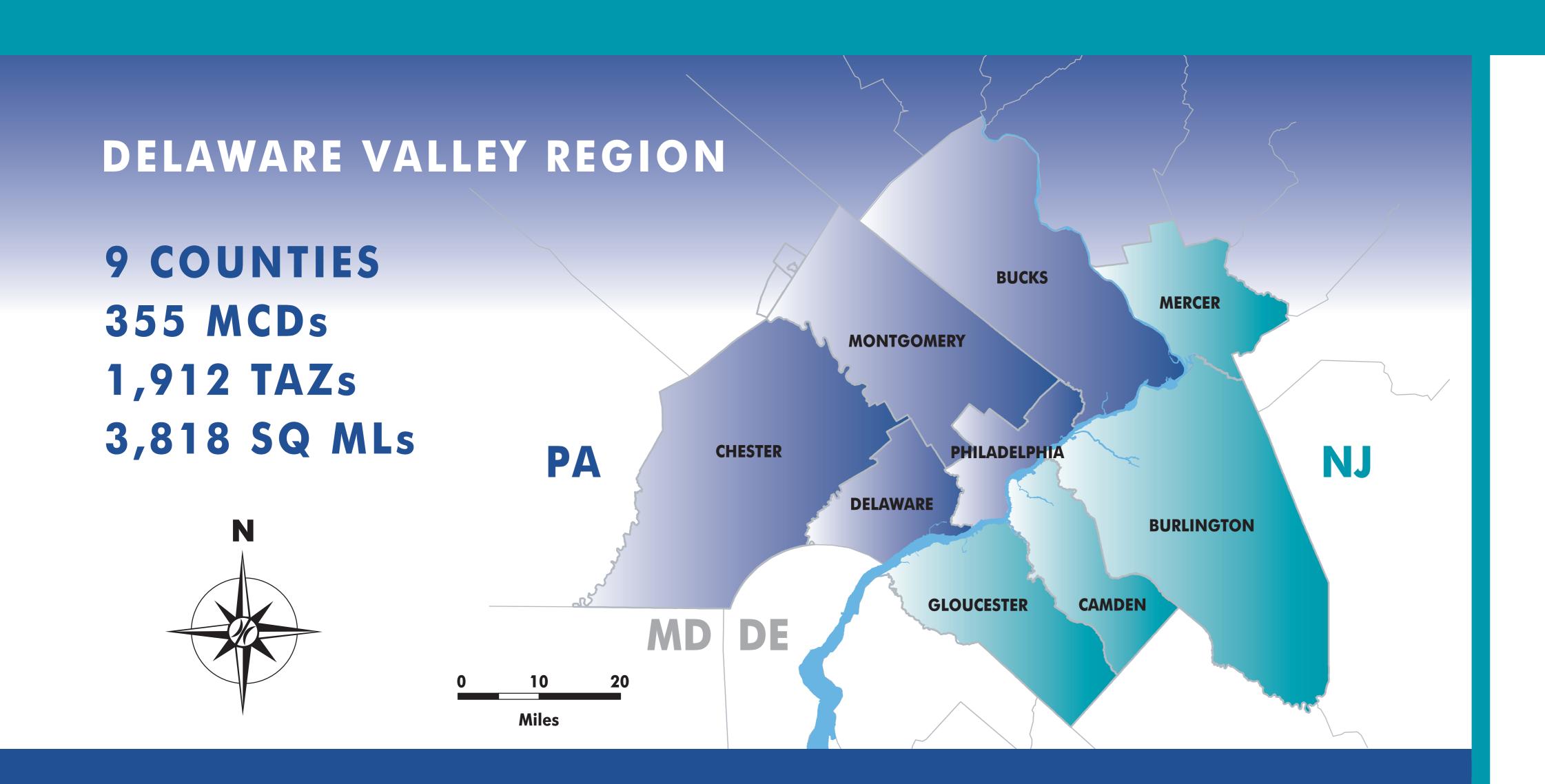
EVALUATION OF CTPP 2000 FOR THE DELAWARE VALLEY REGION





Part 3 Data Evaluation

- Data Rounding. Cell values from 1 through 7 have been rounded to 4. Values of 8 or greater have been rounded to the nearest multiple of 5 (10, 15, 20, etc.).
- **Disclosure Threshold.** An estimate of 4 workers in a worker flow will fail the threshold of 3 unweighted workers, but an estimate of 20 workers will usually pass the threshold. The threshold requirements have destroyed the value of zone-to-zone worker flows by means of transportation (18 modes). However, tables 3-08 and 3-14 can be used together to compute such data for 8 modes.

IMPACTS OF DISCLOSURE AVOIDANCE THRESHOLD ON TAZ-TO-TAZ WORKER FLOW BY MEANS OF TRANSPORTATION

WORKER FLOW TRIP TABLE	OXFORD BOROUGH		CITY OF PHILADELPHIA		NOTES
TOTAL WORKERS BY PLACE OF RESIDENCE	1,740		569,557		Resident Workers
TOTAL RECORDS PASSED RECORDS SUPPRESSED RECORDS	55 16 39	(29%) (71%)	813 338 475	(42%) (58%)	TAZ to TAZ Worker Flow
FREQUENCY OF	SUPPRESSED RECORDS	NO. OF WORKERS	SUPPRESSED RECORDS	NO. OF WORKERS	
SUPPRESSED RECORDS		(4 Workers) (20 Workers)	161 43	(4 Workers) (20 Workers)	Correctly Suppressed
	1 2	(25 Workers) (40+Workers)	13 3 7	(25 Workers) (30 Workers) (50+Workers)	Incorrectly Suppressed

RECOMMENDATIONS FOR THE 2010 CENSUS

- **1.Sample Size** One out of every six housing units was included in the 2000 sample for the long-form questionnaire. This sample size should be retained in the 2010 Census.
- 2. Nonresponse and Imputation As part of the data processing for Census 2000, the CB implemented imputation procedures which should also be implemented in the 2010 Census.

In order to reduce bias in the sample results, the CB should develop a new program to call back, or reinterview 15 percent of those who do not respond to most questions.

- **3.Place of Work Coding** Accurate geocoding of the work address is needed before conducting the 2010 Census. Such a program should be performed by the CB in cooperation with MPOs.
- **4.Respondondent, Enumerator, and Processing Errors**The CB has developed quality control programs to reduce the respondent, enumerator, and processing errors. Such programs should be continued in the future.
- 5. Communication and Public Relations Programs
 To reduce nonsampling errors in the 2010 Census, the CB should implement several marketing programs, including TV advertisement, partnership, toll-free telephone number, forms in several languages...etc.
- **6.Data Swapping** Data swapping is designed to protect confidentiality in tables of frequency data. Such procedures should be used in the 2010 Census since they have no effect on total numbers.
- 7. Data Rounding Rounding should be changed in the 2010 Census to: 1-3 rounds to 2,4-6 rounds to 5,7-9 rounds to 8,10 or greater should not be rounded.
- 8. Disclosure Threshold The loss of worker flows by means of transportation due to the 2000 threshold requirements was significant and the data became totally useless. It is recommended not to use any threshold in the 2010 Census.

CONCLUSIONS

- In general, CTPP 2000 for the DVRPC region contains quality data for transportation planning studies.
- Unfortunately, some of Part 3 data cannot be used because of disclosure rules that resulted in a 62 percent loss of the worker flows by means of transportation.
- The proposed recommendations are consistent with those implemented in Census 2000, except for three items: (1) development of a 15 percent sub-sample to obtain more accurate responses, (2) elimination of the disclosure threshold because it results in useless data, and (3) changing data rounding rules to avoid data loss and inconsistency.
- Imputation procedures, swapping, and data rounding will be sufficient to protect confidentially in the 2010 Census.
- Almost all of CTPP 2000 data problems will disappear if the proposed recommendations are implemented.