AR-1 series data is published as, “Exports From Manufacturing Establishments” by the Bureau of the Census, Department of Commerce. It is available in pamphlet form or pdf at http://www.census.gov/mcd/exports/. For reasons of compatibility with newer years, the years 1997, 2000, and 2001 were removed from this cite in May 2006. As of June 2007 only data for the years 2002 and 2003 are posted. AR-1 for the years 1987—1991 were not included on this site. All of the data to recreate the paper are provided on the online appendix.

Included in this appendix are selected data from AR-1 used in the paper for the years 1987, 1991, 1997, 2001, and 2003. Data is provided as a .txt. 2003 is not used in the paper as when the paper was written, this data was not publicly available. Since it is available now, I have run the same exercises on it, with a write-up posted to the online appendix. However the Census warns that AR-1 for 2002 and 2003 are not comparable to previous years.

The final note is that the AR-1 data from 1987 differs from that reported in Coughlin and Mandelbaum. Since I use the OM data from their paper, I also use the AR-1 data from their paper, even though it differs from the published source for reasons unknown.

The AR-1 data columns are “postcode” “naics” “description” “year” “ar_mill” “tvs_mill”. For years before 1997, “naics” is replaced by “sic.” All values are nominal in ones.

“Postcode” is the 2-digit alpha code for states (also the ISO 3166-2 for the US)
“naics” is the 3-digit code for the manufacturing subsector from the 1997 North American Industry Classification System. It is followed by a “description” of each subsector.

Codes are found at [http://www.census.gov/epcd/www/naics.html](http://www.census.gov/epcd/www/naics.html)

30, ALL MANUFACTURES
311, FOOD AND KINDRED PRODUCTS
312, BEVERAGES AND TOBACCO PRODUCTS
313, TEXTILES AND FABRICS
314, TEXTILE MILL PRODUCTS
315, APPAREL AND ACCESSORIES
316, LEATHER AND ALLIED PRODUCTS
321, WOOD PRODUCTS
322, PAPER
323, PRINTING, PUBLISHING AND SIMILAR PRODUCTS
324, PETROLEUM AND COAL PRODUCTS
325, CHEMICALS
326, PLASTICS AND RUBBER PRODUCTS
327, NONMETALLIC MINERAL PRODUCTS
331, PRIMARY METAL MANUFACTURING
332, FABRICATED METAL PRODUCTS, NESOI
333, MACHINERY, EXCEPT ELECTRICAL
334, COMPUTER AND ELECTRONIC PRODUCTS
335, ELECTRICAL EQUIPMENT, APPLIANCES, AND COMPONENTS
336, TRANSPORTATION EQUIPMENT
337, FURNITURE AND FIXTURES
339, MISCELLANEOUS MANUFACTURED COMMODITIES

In 1987 and 1991, industries are classified by 2-digit 1987 SIC codes where 2 is all manufactures.
“Year” is the year.

“Ar_mill” is the value reported for direct exports from AR-1 in millions of current dollars. This value is estimated based on survey response and data from the unpublished Foreign Trade Statistics from the Foreign Trade Division of the Census. A “0” entry indicates the value was not reported. A “.” Indicates the entry was reported, but was withheld for reasons of disclosure concern or concerns about accuracy. This is not the case for 2003 where a “.” Indicates both non-entries and explicitly suppressed.

Finally, there is “tvs_mill.” This is the value of manufacturer’s shipments in millions of current dollars.

The OM series is proprietary and thus I cannot distribute it. I do provide some OM data that may be obtained free for non-profit purposes. The 1991 data comes from the Center for International Data at UC Davis. The columns are “postcode,” “sic,” “country,” “uncode,” “omsales,” and “year.” “uncode” is the 6-digit country code used by the United Nations. “omsales” is in current (1991) US dollars (ones).

The 1987 data comes from Coughlin and Mandelbaum (1991). The columns of data are: “postcode,” “om_mill,” and “year.” This data differs from the others in that it is only state totals and it is in millions of 1987 dollars.

If you have your own OM data for 2001 and 1997 (and 2003) you must prepare it for use in the programs. Title the variables “state” “naics” “country” “sales” “airvalue” “airweight” “shipvalue” and “shipweight.” All value are nominal in ones; weight in tons.