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| **Instance** |  | **Based on US CFS** | **Data sections in US CFS** | **Comments** |
| Goods Production/Consumption |  | formulation for annual goods consumption | Tables 115/243” and “Table 118/246 |  |
| Commodity Type/Quantity |  | * Standard Classification of Transported Goods (SCTG) Codes (US CFS Data; * Value to weight ratios | 2012 US CFS microdata (A ratio-value for each of the 41 SCTG items) | 1. concerns and potential solutions to them exist:    1. Concern: Detailed Make &Use Tables are for 2007, while CFS Microdata are for 2012  Solution: Assume uniform value-change across commodity types    2. Concern: Value to weight ratios range broadly within BEA's categories  Solution: |
| Shipment Size and Frequency |  | US CFS 2012 Microdata ( <http://www.census.gov/econ/cfs/> ) | Relevant variables   1. Commodity type (SCTG) 2. Shipment Quantity (SHIPMT\_WGHT, pounds) 3. Shipper industry (NAICS, requiring transformation to SSIC) 4. ~~Distance of shipment (SHIPMT\_DIST\_ROUTED, Miles)~~ - not used for final model 5. Mode (MODE) |  |
| Carrier Selection and Carrier Operations Model |  | Extra data  US CFS 2012 Microdata ( http://www.census.gov/econ/cfs/ ) |  |  |
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