

## VTrans Freight Element: Commodity Flows

Commodity Flows are presented using data originating from the Transearch planning tool, a data product of IHS Markit, and the Carload Waybill Sample, a data product provided by the Surface Transportation Board. Both sources use proprietary, confidential data that can be aggregated at various levels to understand the flow of commodities for planning purposes. The data presented in the Origin and Destinations Map, and in the Word Cloud graphics, are summarized at multiple points in data processing and therefore have limitations that should be kept in mind when interpreting. To best understand the information presented, the following methodology notes should be considered.

### Geographic Summaries

The trip data provided in the Transearch and Waybill databases include origins and destinations for each trip using data at the county level or the level of Bureau of Economic Analysis (BEA) Economic Areas. When using the Virginia geographies (e.g., Planning District Commissions, Metropolitan Planning Organizations) to summarize data, trips were summarized by origin and destination county and each geography was considered separately. For example, the data presented for 2030 inbound commodity flows at the Construction District level is the same data presented for 2030 inbound commodity flows by MPO; only the lens in which to view the data has changed. Additionally, some counties belong to multiple Planning District Commissions. In these cases, the county-level data is assigned to multiple Planning District Commissions and the totals across districts do not equal the statewide totals. Commodities traveling within the same geography (i.e., produced and consumed within the same district) are not displayed.

Lastly, it is important to note that the visualization displays origins and destinations only, not the *path* of travel. For this reason, the total amount of commodities that travel through each geography will be much greater than the data presented. For example, much of the travel occurring on Virginia roads does not originate or end in Virginia. These commodities pass through the state on the way to other locations. While not presented in these visuals, the path of travel represents an important consideration for transportation planning and highlights Virginia's role plays in the national freight network.

### Commodity Summaries

The raw Transearch and Waybill data classify commodity type using the Standard Transportation Commodity Code (STCC). Commodity flows are assigned an STCC by the producing entity using a seven-digit numeric code. The Transearch and Waybill data include a simplified interpretation of the STCC (presenting four and sometimes up to five digits within the code). In total, Transearch references over 760 commodity types across 40 commodity groups. Presenting 760 commodities in a word cloud proved to be too visually dense so commodity codes are summarized here at the level of the 40 commodity groups. See Appendix A for a full list of the commodity codes assigned to each group.

In some instances, the largest inbound and outbound commodity flows appear to belong to the same commodity group even though one might expect to see opposing commodity types moving inbound and outbound as regions import products in short supply and export products in excess supply. With more granular data, this import and export relationship may be more clear. However, geographic and commodity-type granularity was lost during data processing through aggregation, which may obscure the expected patterns in some of the visualizations.

## Appendix A: Standard Transportation Commodity Codes (STCC)

**Bold text** indicates the commodity grouping used for presentation in the Word Cloud. Commodities names are listed as presented in the STCC and alterations are noted if presented differently in the Word Cloud.

<b>1</b>	<b>Farm Products</b>	<b>13</b>	Crude Petrol. Or Natural Gas
01 12	Cotton, raw	13 11	Crude Petroleum
01 13	Grain	13 12	Natural Gas
01 14	Oil Kernels, Nuts or Seeds	13 21	Natural Gasoline
01 15	Field Seeds		
01 19	Misc. Field Crops	<b>14</b>	<b>Nonmetallic Minerals</b>
01 21	Citrus Fruits	14 11	Dimension Stone, quarry
01 22	Deciduous Fruits	14 21	Broken Stone or Riprap
01 23	Tropical Fruits	14 41	Gravel Or Sand
01 29	Misc. Fresh Fruits or Tree Nuts	14 51	Clay Ceramic or Refracted Minerals
01 31	Bulbs, roots Or Tubers	14 71	Chemical Or Fertilizer Mineral Crude
01 33	Leafy Fresh Vegetables	14 91	Misc. Nonmetallic Minerals, NEC
01 34	Dry Ripe Vegetable Seeds	14 92	Water
01 39	Misc. Fresh Vegetables		
01 41	Livestock	<b>19</b>	<b>Ordnance or Accessories (Presented as Guns and Ammunition)</b>
01 42	Dairy Farm Products	19 11	Guns, howitzers, mortars, Etc.
01 43	Animal Fibers	19 25	Guided Missiles or Space Vehicle
01 51	Live Poultry	19 29	Ammo or Related Parts, NEC
01 52	Poultry Eggs	19 31	Tracked Combat Vehicle or Parts
01 91	Horticultural Specialties	19 41	Military Fire Control Equip
01 92	Animal Specialties	19 51	Small Arms, 30mm Or Less
01 99	Farm Prod, NEC	19 61	Small Arms Ammo, 30mm Or Less
		19 91	Misc. Ordnance or Accessories
<b>8</b>	<b>Forest Products</b>	<b>20</b>	<b>Food or Kindred Products</b>
08 42	Barks or Gums, crude	20 11	Meat, Fresh or Chilled
08 61	Misc. Forest Products	20 12	Meat, Fresh Frozen
		20 13	Meat Products
<b>9</b>	<b>Fresh Fish or Marine Products (Presented as Fish)</b>	20 14	Animal By-prod, inedible
09 12	Fresh Fish or Whale Products	20 15	Dressed Poultry, Fresh
09 13	Marine Products	20 16	Dressed Poultry, Frozen
09 89	Fish Hatcheries	20 17	Processed Poultry or Eggs
<b>10</b>	<b>Metallic Ores</b>	20 21	Creamery Butter
10 11	Iron Ores	20 23	Condensed, Evaporated Or Dry Milk
10 21	Copper Ores	20 24	Ice Cream or Related Frozen Desserts
10 31	Lead Ores	20 25	Cheese or Special Dairy Products
10 32	Zinc Ores	20 26	Processed Milk
10 33	Lead and Zinc Ores Combined	20 31	Canned or Cured Sea Foods
10 41	Gold Ore	20 32	Canned Specialties
10 42	Silver Ore	20 33	Canned Fruits, vegetables, Etc.
10 51	Bauxite Or Other Alum Ores	20 34	Dehyd. Or Dried Fruit or Vegetables
10 61	Manganese Ores	20 35	Pickled Fruits or Vegetables
10 71	Tungsten Ores	20 36	Processed Fish Products
10 81	Chromium Ores	20 37	Frozen Fruit, Vegetables or Juice
10 92	Misc. Metal Ores	20 38	Frozen Specialties
		20 39	Canned or Preserved Food, Mixed
<b>11</b>	<b>Coal</b>	20 41	Flour Or Other Grain Mill Products
11 11	Anthracite	20 42	Prepared or Canned Feed
11 21	Bituminous Coal	20 43	Cereal Preparations
11 22	Lignite	20 44	Milled Rice, Flour or Meal

20 45 Blended or Prepared Flour  
20 46 Wet Corn Milling Or Milo  
20 47 Dog, cat Or Other Pet Food, NEC  
20 51 Bread Or Other Bakery Prod  
20 52 Biscuits, Crackers or Pretzels  
20 61 Sugar Mill Prod Or By-prod  
20 62 Sugar, Refined, Cane Or Beet  
20 71 Candy Or Other Confectionery  
20 82 Malt Liquors  
20 83 Malt  
20 84 Wine, brandy Or Brandy Spirit  
20 85 Distilled or Blended Liquors  
20 86 Soft Drinks or Mineral Water  
20 87 Misc. Flavoring Extracts  
20 91 Cottonseed Oil Or By-prod  
20 92 Soybean Oil or By-products  
20 93 Nut or Vegetables Oils or By-products  
20 94 Marine Fats or Oils  
20 95 Roasted or Instant Coffee  
20 96 Margarine, shortening, Etc.  
20 97 Ice, Natural or Manufactured  
20 98 Macaroni, spaghetti, Etc.  
20 99 Misc. Food Preparations, NEC

**21 Tobacco Products (Presented as Tobacco)**

21 11 Cigarettes  
21 21 Cigars  
21 31 Chewing Or Smoking Tobacco  
21 41 Stemmed or Re-dried Tobacco

**22 Textile Mill Products (Presented as Textile)**

22 11 Cotton Broad-woven Fabrics  
22 17 Cotton Broad-woven Fabrics  
22 21 Man-made or Glass Woven Fiber  
22 22 Silk-woven Fabrics  
22 31 Wool Broad-woven Fabrics  
22 41 Narrow Fabrics  
22 51 Knit Fabrics  
22 71 Woven Carpets, mats Or Rugs  
22 72 Tufted Carpets, rugs Or Mats  
22 79 Carpets, mats Or Rugs, NEC  
22 81 Yarn  
22 84 Thread  
22 91 Felt Goods  
22 92 Lace Goods  
22 93 Padding, upholstery Fill, Etc.  
22 94 Textile Waste, Processed  
22 95 Coated or Imprinted Fabric  
22 96 Cord or Fabrics, industrial  
22 97 Wool Or Mohair  
22 98 Cordage Or Twine  
22 99 Textile Goods, NEC

**23 Apparel or Related Products (Presented as Apparel)**

23 11 Men's Or Boys Clothing  
23 31 Women's Or Children's Clothing  
23 51 Millinery

23 52 Caps or Hats or Hat Bodies  
23 71 Fur Goods  
23 81 Gloves, mittens Or Linings  
23 84 Robes or Dressing Gowns  
23 85 Raincoats or Other Rain Wear  
23 86 Leather Clothing  
23 87 Apparel Belts  
23 89 Apparel, NEC  
23 91 Curtains or Draperies  
23 92 Textile House furnishings  
23 93 Textile Bags  
23 94 Canvas Products  
23 95 Textile Prod, pleated, Etc.  
23 96 Apparel Findings  
23 99 Misc. Fabricated Textile Products

**24 Lumber or Wood Products (Presented as Lumber or Wood)**

24 11 Primary Forest Materials  
24 21 Lumber Or Dimension Stock  
24 29 Misc. Sawmill or Planing Mill  
24 31 Millwork Or Cabinetwork  
24 32 Plywood Or Veneer  
24 33 Prefab Wood Buildings  
24 34 Kitchen Cabinets, wood  
24 39 Structural Wood Prod, NEC  
24 41 Wood Cont. Or Box Shooks  
24 91 Treated Wood Products  
24 92 Rattan Or Bamboo Ware  
24 93 Lasts or Related Products  
24 94 Cork Products  
24 95 Hand Tool Handles  
24 96 Scaffolding Equip or Ladders  
24 97 Wooden Ware Or Flatware  
24 98 Wood Prod, NEC  
24 99 Misc. Wood Products

**25 Furniture or Fixtures (Presented as Furniture)**

25 11 Benches, chairs, Stools  
25 12 Tables or Desks  
25 13 Sofas, Couches, Etc.  
25 14 Buffets, China Closets, Etc.  
25 15 Bedsprings or Mattresses  
25 16 Beds, dressers, chests, Etc.  
25 17 Cabinets or Cases  
25 18 Children's Furniture  
25 19 Household Or Office Furniture, NEC  
25 31 Public Building Or Related Furniture  
25 41 Wood Lockers, partitions, Etc.  
25 42 Metal Lockers, partitions, Etc.  
25 91 Venetian Blinds, shades, Etc.  
25 99 Furniture or Fixtures, NEC

**26 Pulp, paper Or Allied Products (Presented as Paper)**

26 11 Pulp Or Pulp Mill Products  
26 21 Paper  
26 31 Fiber, Paper or Pulp board

26 42 Envelopes  
26 43 Paper Bags  
26 44 Wallpaper  
26 45 Die-cut Paper or Pulp board Products  
26 46 Pressed or Molded Pulp Goods  
26 47 Sanitary Paper Products  
26 49 Misc. Converted Paper Products  
26 51 Containers or Boxes, paper  
26 54 Sanitary Food Containers  
26 55 Fiber Cans, Drums or Tubes  
26 61 Paper Or Building Board

## **27 Printed Matter (Presented as Printed Material)**

27 11 Newspapers  
27 21 Periodicals  
27 31 Books  
27 41 Misc. Printed Matter  
27 61 Manifold Business Forms  
27 71 Greeting Cards, Seals, Etc.  
27 81 Blank book, Loose Leaf Binder  
27 91 Svc Indus for Print Trades

## **28 Chemicals or Allied Products (Presented as Chemicals)**

28 11 Industrial, Inorganic, Or Org Chemicals  
28 12 Potassium Or Sodium Compound  
28 13 Industrial Gases  
28 14 Crude Prod of Coal, gas, petroleum  
28 15 Cyclic Intermediates or Dyes  
28 16 Inorganic Pigments  
28 18 Misc. Industrial Organic Chemicals  
28 19 Misc. Indus Inorganic Chemicals  
28 21 Plastic Mater or Synthetic Fibers  
28 31 Drugs  
28 41 Soap Or Other Detergents  
28 42 Specialty Cleaning Preparations  
28 43 Surface Active Agents  
28 44 Cosmetics, perfumes, Etc.  
28 51 Paints, Lacquers, Etc.  
28 61 Gum or Wood Chemicals  
28 71 Fertilizers  
28 79 Misc. Agricultural Chemicals  
28 91 Adhesives  
28 92 Explosives  
28 93 Printing Ink  
28 99 Chemical Preparations, NEC

## **29 Petroleum or Coal Products (Presented as Petro Or Coal Products)**

29 11 Petroleum Refining Products  
29 12 Liquefied Gases, coal Or Petroleum  
29 51 Asphalt Paving Blocks or Mix  
29 52 Asphalt Coatings or Felt  
29 91 Misc. Coal or Petroleum Products

## **30 Rubber or Misc. Plastics (Presented as Rubber)**

30 11 Tires or Inner Tubes  
30 21 Rubber Or Plastic Footwear

30 31 Reclaimed Rubber  
30 41 Rub or Plastic Hose or Belting  
30 61 Misc. Fabricated Products  
30 71 Misc. Plastic Products  
30 72 Misc. Plastic Products

## **31 Leather or Leather Products (Presented as Leather Products)**

31 11 Leather, finished Or Tanned  
31 21 Industrial Leather Belting  
31 31 Boot Or Shoe Cut Stock  
31 41 Leather Footwear  
31 42 Leather House Slippers  
31 51 Leather Gloves or Mittens  
31 61 Leather Luggage or Handbags  
31 99 Leather Goods, NEC

## **32 Clay, concrete, glass Or Stone (Presented as Clay Concrete Stone or Glass)**

32 11 Flat Glass  
32 13 Laminated Safety Glass  
32 21 Glass Containers  
32 29 Misc. Glassware, blown Or Pressed  
32 41 Portland Cement  
32 51 Clay Brick or Tile  
32 53 Ceramic Floor Or Wall Tile  
32 55 Refractories  
32 59 Misc. Structural Clay Products  
32 61 Vitreous China Plumbing Fixtures  
32 62 Vitreous China Kitchen Articles  
32 64 Porcelain Electric Supplies  
32 69 Misc. Pottery Products  
32 71 Concrete Products  
32 73 Ready-mix Concrete, Wet  
32 74 Lime Or Lime Plaster  
32 75 Gypsum Products  
32 81 Cut Stone or Stone Products  
32 91 Abrasive Products  
32 92 Asbestos Products  
32 93 Gaskets or Packing  
32 95 Nonmetal Minerals, Processed  
32 96 Mineral Wool  
32 99 Misc. Nonmetallic Minerals

## **33 Primary Metal Products (Presented as Metal)**

33 11 Blast Furnace Or Coke  
33 12 Primary Iron or Steel Products  
33 13 Electrometallurgical Products  
33 15 Steel Wire, Nails or Spikes  
33 16 Cold Finishing Of Steel Shapes  
33 21 Iron or Steel Castings  
33 31 Primary Copper Smelter Products  
33 32 Primary Lead Smelter Products  
33 33 Primary Zinc Smelter Products  
33 34 Primary Aluminum Smelter Products  
33 39 Misc. Prim Nonferrous Smelter Products  
33 51 Copper Or Alloy Basic Shapes  
33 52 Aluminum Or Alloy Basic Shapes

33 56 Misc. Nonferrous Basic Shapes  
33 57 Nonferrous Wire  
33 61 Aluminum Or Alloy Castings  
33 62 Copper or Alloy Castings  
33 69 Misc. Nonferrous Castings  
33 91 Iron or Steel Forgings  
33 92 Nonferrous Metal Forgings  
33 99 Primary Metal Products, NEC

**34 Fabricated Metal Products (Presented as Fabricated Metal)**

34 11 Metal Cans  
34 21 Cutlery, not Electrical  
34 23 Edge Or Hand Tools  
34 25 Hand Saws or Saw Blades  
34 28 Builders or Cabinet Hardware  
34 29 Misc. Hardware  
34 31 Metal Sanitary Ware  
34 32 Plumbing Fixtures  
34 33 Heating Equip, not Electrical  
34 41 Fabricated Structural Metal Products  
34 42 Metal Doors, Sash, Etc.  
34 43 Fabricated Plate Products  
34 44 Sheet Metal Products  
34 46 Architectural Metal Work  
34 49 Misc. Metal Work  
34 52 Bolts, Nuts, Screws, Etc.  
34 61 Metal Stampings  
34 81 Misc. Fabricated Wire Products  
34 91 Metal Shipping Containers  
34 92 Metal Safes or Vaults  
34 93 Steel Springs  
34 94 Valves or Pipe Fittings  
34 99 Fabricated Metal Products, NEC

**35 Machinery**

35 11 Steam Engines, Turbines, Etc.  
35 19 Misc. Internal Combustion Engines  
35 22 Farm Machinery Or Equipment  
35 23 Farm Machinery Or Equipment  
35 24 Lawn Or Garden Equipment  
35 31 Construction Machinery Or Equipment  
35 32 Mining Machinery or Parts  
35 33 Oil Field Machinery Or Equipment  
35 34 Elevators or Escalators  
35 35 Conveyors or Parts  
35 36 Hoists, Industry Cranes, Etc.  
35 37 Industrial Trucks, Etc.  
35 41 Machine Tools, Metal Cutting  
35 42 Machine Tools, Metal Forming  
35 44 Special Dies, tools, jigs, Etc.  
35 45 Machine Tool Accessories  
35 48 Metalworking Machinery  
35 51 Food Prod Machinery  
35 52 Textile Machinery or Parts  
35 53 Woodworking Machinery  
35 54 Paper Industries Machinery  
35 55 Printing Trades Machinery

35 59 Misc. Special Industry Mach  
35 61 Industrial Pumps  
35 62 Ball or Roller Bearings  
35 64 Ventilating Equipment  
35 66 Mech. Power Transmission Equipment  
35 67 Industrial Process Furnaces  
35 69 Misc. General Industrial  
35 72 Typewriters or Parts  
35 73 Electronic Data Processing Equipment  
35 74 Accounting Or Calculating Equipment  
35 76 Scales or Balances  
35 79 Misc. Office Machines  
35 81 Automatic Merchandising Machines  
35 82 Commercial Laundry Equipment  
35 85 Refrigeration Machinery  
35 89 Misc. Service Industry Machinery  
35 92 Carburetors, Pistons, Etc.  
35 99 Misc. Machinery or Parts

**36 Electrical Equipment**

36 11 Electric Measuring Instruments  
36 12 Electrical Transformers  
36 13 Switchgear or Switchboards  
36 21 Motors or Generators  
36 22 Industrial Controls or Parts  
36 23 Welding Apparatus  
36 24 Carbon Prod for Electric Uses  
36 29 Misc. Electrical Industrial Equipment  
36 31 Household Cooking Equipment  
36 32 Household Refrigerators  
36 33 Household Laundry Equipment  
36 34 Electric House wares Or Fans  
36 35 Household Vacuum Cleaners  
36 36 Sewing Machines or Parts  
36 39 Misc. Household Appliances  
36 41 Electric Lamps  
36 42 Lighting Fixtures  
36 43 Current Carrying Wiring Equipment  
36 44 Non-current Wiring Devices  
36 51 Radio Or TV Receiving Sets  
36 52 Phonograph Records  
36 61 Telephone Or Telegraph Equipment  
36 62 Radio Or TV Transmitting Equipment  
36 71 Electronic Tubes  
36 74 Solid State Semi conducts  
36 79 Misc. Electronic Components  
36 91 Storage Batteries or Plates  
36 92 Primary Batteries  
36 93 X-ray Equipment  
36 94 Electric Equip For Intern Comb Engine  
36 99 Electrical Equipment, NEC

**37 Transportation Equipment**

37 11 Motor Vehicles  
37 12 Passenger Motor Car Bodies  
37 13 Motor Bus Or Truck Bodies  
37 14 Motor Vehicle Parts or Accessories  
37 15 Truck Trailers

37 21	Aircraft	40 27	Stone, Clay or Glass Scrap
37 22	Aircraft or Missile Engines	40 28	Leather Waste Or Scrap
37 23	Aircraft Propellers or Parts	40 29	Misc. Waste Or Scrap
37 29	Misc. Aircraft Parts		
37 32	Ships or Boats	<b>41</b>	<b>Misc. Freight Shipments (Presented as Miscellaneous)</b>
37 41	Locomotives or Parts	41 11	Misc. Freight Shipments
37 42	Railroad Cars	41 21	Special Commodities
37 51	Motorcycles, Bicycles or Parts	41 92	Special Commodities
37 69	Missile Or Space Vehicle Parts		
37 91	Trailer Coaches	<b>42</b>	<b>Shipping Containers (Not Presented)</b>
37 99	Transportation Equipment, NEC	42 11	Shipping Containers
		42 21	Semi-trailers Returned Empty
		42 31	Empty Equipment, Reverse Route
<b>38</b>	<b>Instruments, Photo Equipment, Optical Equip (Presented as Photo or Optical Equipment)</b>	<b>43</b>	<b>Mail or Contract Traffic (Presented as Mail)</b>
38 11	Engrg, Lab Or Scientific Equipment	43 11	Mail And Express Traffic
38 21	Mechanical Measuring Or Control Equipment	43 21	Other Contract Traffic
38 22	Automatic Temperature Controls		
38 31	Optical Instruments or Lenses	<b>44</b>	<b>Freight Forwarder Traffic (Not Presented)</b>
38 41	Surgical or Medical Instruments	44 11	Freight Forwarder Traffic
38 42	Orthopedic or Prosthetic Supplies		
38 43	Dental Equipment or Supplies	<b>45</b>	<b>Shipper Association Traffic (Not Presented)</b>
38 51	Ophthalmic or Opticians Goods	45 11	Shipper Association Traffic
38 61	Photographic Equip or Supplies		
38 71	Watches, Clocks, Etc.	<b>46</b>	<b>Misc. Mixed Shipments (Presented as Mixed Shipments)</b>
		46 11	FAK Shipments
<b>39</b>	<b>Misc. Manufacturing Products</b>	46 21	Mixed Shipments, Multi-STCC
39 11	Jewelry, Precious Metal, Etc.		
39 14	Silverware Or Plated Ware	<b>47</b>	<b>Small Packaged Freight Shipments (Presented as Small Packaged Goods)</b>
39 31	Musical Instruments or Parts	47 11	Small Packaged Freight Shipments
39 41	Games or Toys		
39 42	Dolls or Stuffed Toys	<b>48</b>	<b>Waste Hazardous Materials</b>
39 43	Children's Vehicle or Parts, NEC	48 04	Waste Nonflammable Compressed Gases
39 49	Sporting Or Athletic Goods	48 05	Waste Flammable Compressed Gases
39 51	Pens or Parts	48 07	Waste Flammable Liquids
39 52	Pencils, crayons, or Artists Materials	48 08	Waste Flammable Liquids
39 53	Marking Devices	48 09	Waste Flammable Liquids
39 55	Carbon Paper or Inked Ribbons	48 12	Flammable Liquids
39 61	Costume Jewelry or Novelties	48 13	Waste Combustible Liquids
39 62	Feathers, Plumes, Etc.	48 14	Combustible Liquids
39 63	Buttons	48 15	Waste Combustible Liquids
39 64	Apparel Fasteners	48 16	Waste Flammable Solids
39 91	Brooms, Brushes, Etc.	48 17	Waste Flammable Solids
39 92	Linoleum Or Other Coverings	48 18	Waste Oxidizing Materials
39 93	Signs or Advertising Displays	48 21	Waste Poison B, Organic
39 94	Morticians Goods	48 23	Waste Poisonous Materials
39 96	Matches	48 25	Waste Etiologic Agents
39 97	Furs, dressed Or Dyed	48 29	Waste Radioactive Materials
39 99	Manufactured Prod, NEC	48 31	Waste Corrosive Materials
		48 32	Waste Corrosive Materials
<b>40</b>	<b>Waste or Scrap Materials (Presented as Scrap Metal)</b>	48 35	Waste Corrosive Materials
40 11	Ashes	48 36	Waste Corrosive Materials
40 21	Metal Scrap or Tailings	48 45	Waste Other Regulated Materials, Group C
40 22	Textile Scrap or Sweepings	48 61	Waste Miscellaneous Hazardous Materials
40 23	Wood Scrap Or Waste	48 62	Waste Misc. Hazardous Materials
40 24	Paper Waste Or Scrap		
40 25	Chemical Or Petroleum Waste		
40 26	Rubber Or Plastic Scrap		

48 63 Waste Miscellaneous Hazardous Materials  
48 66 Waste Miscellaneous Hazardous Materials  
48 70 Hazardous Waste, N.O.S.  
48 75 Waste Stream Other Regulated

**49 Hazardous Materials**

49 01 Ammunition & Class A Explosives  
49 02 Class B Explosives  
49 03 Class C Explosives  
49 04 Non Flammable Compressed Gases  
49 05 Flammable Compressed Gases  
49 06 Flammable Liquids  
49 07 Flammable Liquids  
49 08 Flammable Liquids  
49 09 Flammable Liquids  
49 12 Combustible Liquids  
49 13 Combustible Liquids  
49 14 Combustible Liquids  
49 15 Combustible Liquids  
49 16 Combustible Solids  
49 17 Flammable Solids  
49 18 Oxidizing Materials  
49 19 Organic Peroxides  
49 21 Poisons B, organic  
49 23 Poisons B, inorganic  
49 25 Irritating Materials - Etiologic Agents  
49 26 Radioactive Materials  
49 27 Radioactive Materials, Fissile Cl Iii  
49 28 Radioactive Materials, Fissile Cl Ii  
49 29 Radioactive Materials, Fissile Cl I  
49 31 Corrosive Materials  
49 32 Corrosive Materials  
49 33 Corrosive Materials  
49 34 Corrosive Materials  
49 35 Corrosive Materials

**50 Other Transearch (50 XX series codes are unique to Transearch) (Not Presented)**

50 10 Warehouse & Distribution Center  
50 21 Rail Intermodal Drayage to Ramp  
50 22 Rail Intermodal Drayage from Ramp  
50 31 Air Freight Drayage to Airport  
50 32 Air Freight Drayage from Airport