

American Metal Market

Non-ferrous Scrap

Methodology and Price Specifications

American Metal Market

American Metal Market (AMM) is the leading independent supplier of market intelligence, pricing, assessments, analysis and commentary to the North American metals industries. AMM publishes widely used reference prices for non-ferrous metals, steel and scrap markets.

AMM is completely independent and has no vested commercial interest in any of the markets it prices.

AMM's reporters are required to follow a Code of Conduct.

AMM reporters are required to follow robust pricing procedures during their market reporting and pricing activities.

All work by AMM reporters is peer reviewed and approved prior publication by senior reporters.

All prices and assessments are based on regular contact with a wide variety of market participants, a group which is reviewed periodically by senior editors to ensure a balance of participants, buyers, sellers and others legitimately and actively involved in the marketplace.

AMM treats all communications of price, assessments, contract details and all other information as confidential and details are never shared with third parties.

If you have any questions, please contact the pricing administrator, pricing@amm.com.

AmericanMetalMarket

Non-ferrous Scrap Methodology and Price Specifications

The price discovery process methodology

The aim of this section is to provide a clear overview of the pricing methodology and price specifications of all the non-ferrous scrap markets that AMM assesses.

AMM produces independent, fair and representative price assessments for the US non-ferrous scrap market on a periodic basis, most often daily, weekly and monthly. It reserves the right, based on market variations or other factors, to change the frequency of any price, assessment or index published after notifying the market of its intent.

AMM's reporters are charged with speaking to a broad sample of market participants closely or specifically involved in the buying and selling of the metal of interest. Representatives of this market, may include both sides of known contract(s), may include producers, consumers, traders and brokers.

The reporters' goal is to discover as many details as possible of all market activity including concluded business, made offers, and received bids or prices quotes over a certain defined period – generally the period since the conclusion of the previous quotation.

Pricing data is usually collected via phone conversations and email exchanges with market participants; all

the relevant pricing details are entered into the AMM pricing database and available for peer review.

AMM follows industry convention for all price points, assessments and indexes. Reporters ensure that the information they receive matches these conventions.

Occasionally AMM might receive price data for material where a transaction, contract, reported bid, offer or quote may differ in some element from convention – for instance, non-standard material quality, delivery terms or delivery location, cargo size or payment terms. In such cases AMM normalizes the data.

AMM does not use volume/quantity/tonnage weighted averages and will not use information that is suspect or from an anonymous sources who refuse to detail and verify their involvement in the industry.

At the end of a pricing session, AMM reporters will collate information received and review it before setting a price or assessment. In some cases, it will set a price range, to reflect the spread of prices at which business has been transacted, offered or bid. In other cases it will specify as single number, midpoint, or index which is compiled from single numbers and/or ranges.

While AMM does not use volume/quantity/tonnage weighted averages, it does use weighting in that greater

importance is given to actual and/or concluded transaction data. Depending on market liquidity, it is not always possible to obtain actual transaction data; in such cases, AMM reserves the right to base its prices on also on bids, offers and assessments and the context of related benchmarks and/or analogous transactions, bids, offers and assessments to inform any or no directional change in pricing.

When required, particularly in instances where a market moves dramatically, AMM seeks to confirm all information on deals either by requesting a signed copy of the contract; we also accept other materials as evidence of claimed deals and reserve the right to check deal information with the counterparty, middleman, trader or other knowledgeable participant.

AMM uses its expert judgment and applies consistent procedures to exclude outlying numbers and discard prices that it believes may be questionable, unrepeatable or otherwise unrepresentative of current market conditions.

All price assessment inputs are gathered by one or more reporters who cover that/those specific market(s). Prices are reviewed and approved by a senior reporter or editor (all of whom have access to the first reporter's or reporters' documentation) prior to publication. In this way AMM ensures consistency in the application of the

methodology and the exercising of judgement.

In the event that no relevant data has been reported in the assessed period, for example as a result of holidays, AMM reserves the right to roll the price over.

Methodology and price specification review process

AMM continually develops and revises its methodologies in consultation with industry participants. If there are

changes in the industry, AMM will revise or adopt product specifications, trading terms, conditions or other factors that reflect and are representative of typical working practices in the industry. All methodologies, changes, revisions, adaptations or other are approved by AMM's Editor and senior management.

Please note that changes to the methodology and/or details affecting the price are implemented following a formal consultation process which starts with AMM posting on its website and/

or in its daily issue an advance pricing notice providing clear details and time-frame for the change proposed. AMM concurrently reaches out to known participants in the specific market for feedback, comment and suggestions. The objective of the consultation process is to give market participants sufficient time and opportunity to provide feedback. AMM will consider all views about the change proposed, but reserves the right to make changes it deems necessary.

Copper Scrap

No. 1 heavy copper and wire:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean, untinned, uncoated, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burnt wire which is brittle. Hydraulically briquetted copper subject to agreement.
Frequency:	Twice a month (approx. 1st and 15th)
ISRI code:	Berry

No. 2 heavy copper and wire:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (min. 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Birch

Light copper:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (min. 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers, and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators and fire extinguishers; refrigerator units; electrotypes shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement. Any items excluded in this grade are also excluded in the higher grades above.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Dream

Red brass solids:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Shall be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; closed water meters; gates; pot pieces; ingots and burned brass; aluminium, silicon, and manganese bronzes; iron and non-metallics. No piece to measure more than 12 inches over any one part or weigh over 100 pounds. Heavier pieces acceptable upon mutual agreement between buyer and seller.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Ebony

Red brass turnings, borings:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of turnings from red brass composition material and should be sold subject to sample or analysis. Also includes borings.
Frequency: Twice a month (approx. 1st & 15th)

Cocks and faucets:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of mixed clean red and yellow brass, including chrome or nickel-plated, free of gas cocks, beer faucets, and aluminium and zinc base die cast material, and to contain a minimum of 35% semi-red.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Grape

Brass pipe:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of brass pipe free of plated and soldered materials or pipes with cast brass connections. To be sound, clean pipes free of sediment and condenser tubes.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Melon

Yellow brass solids:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of mixed yellow brass solids, including brass castings, rolled brass, rod brass, tubing and miscellaneous yellow brasses, including plated brass. Must be free of manganese-bronze, aluminium bronze, unsweated radiators or radiator parts, iron, and excessively dirty and corroded materials. Must also be free of any type of munitions including, but not limited to, bullet casings.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Honey

Mixed yellow brass turnings, borings:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of yellow brass turnings, free of aluminium, manganese and composition turnings, not to contain over 3% of free iron, oil or other moisture; to be free of grindings and babbitts. To avoid dispute, to be sold subject to sample or analysis. Also includes borings.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Nomad

Yellow brass rod ends:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new, clean rod ends from free turning brass rods or forging rods, not to contain more than 0.30% tin and not more than 0.15% alloyed iron. To be free of Muntz metal and naval brass or any other alloys. To be in pieces not larger than 12 inches and free of foreign matter.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Noble

Yellow brass rod turnings:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist strictly of rod turnings, free of aluminium, manganese, composition, Tobin and Muntz metal turnings; not to contain over 3% free iron, oil or other moisture; to be free of grindings and babbitts; to contain no more than 0.30% tin and not more than 0.15% alloyed iron.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Night

70-30 brass clips:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of the cuttings of new unleaded yellow brass sheet or plate, to be clean and free from foreign substances and not to contain more than 10% of clean brass punching under ¼ inch. To be free of Muntz metal and naval brass.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Label

Auto radiators (unswaged):

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of mixed automobile radiators, to be free of aluminium radiators, and iron-finned radiators. All radiators to be subject to deduction of actual iron. The tonnage specification should cover the gross weight of the radiators, unless otherwise specified.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Ocean

High-grade bronze gears:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of red brass bushings and bearings from automobiles and other machinery, shall contain not less than 12% high tin-base babbitt, and shall be free of iron-backed bearings.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Elder

High-grade low lead bronze:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	It is recommended these materials be sold by analysis.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Eland

Manganese bronze solids:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall have a copper content of not less than 55%, a lead content of not more than 1%, and shall be free of aluminium bronze and silicon bronze.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Parch

Miscellaneous nickel-‘silver’ solids:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new, clean nickel silver clippings, plate, rod and forgings, and other rolled shapes, free of chrome or any other plating material. Must be sold on nickel content specifications such as 10%–12%–15%– 18%–20%. Leaded nickel silver clippings should be packed and sold separately. A description as to its physical characteristics should be made in offering all nickel silver material.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Major

Manganese bronze turnings:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall have a copper content of not less than 55%, a lead content of not more than 1%, and shall be free of aluminium bronze and silicon bronze.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Parch

Aluminium Scrap

Segregated low-copper alloy clips:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new, clean, uncoated and unpainted aluminium scrap of one specified aluminium alloy with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other nonmetallic items. Oil and grease not to total more than 1%. Also free from punchings less than ½ inch (1.27 cm) in size.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Tooth

Mixed low-copper alloy clips:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new, clean, uncoated and unpainted low copper aluminium scrap of two or more alloys with a minimum thickness of 0.015 inches (.38 mm) and to be free of 2000 and 7000 series, hair wire, wire screen, punchings less ½ inch (1.25 cm) diameter, dirt, and other non-metallic items. Grease and oil not to total more than 1%. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Taboo

Mixed clips:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%
Frequency: Twice a month (approx. 1st & 15th)

Aluminium borings, turnings, clean and dry:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of clean, uncorroded aluminium borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other non-metallic items. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute, material should be sold on basis of definite maximum zinc, tin and magnesium content.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Telic

Old aluminium, sheet and cast:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of clean old alloy aluminium sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Oil and grease not to total more than 1%. Up to 10% Tale permitted.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Taint/Tabor

Used beverage cans, clean and dry:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)

Location: US/Canada, specified city

Pricing point: Dealer buying price, delivered to yard

Quality: Shall have a minimum density of 14 pounds per cubic foot (225 kg/m³), and a maximum density of 17 pounds per cubic foot (273 kg/m³) for unflattened UBC and 22 pounds per cubic foot (353 kg/m³) for flattened UBC. Size: Minimum 30 cubic feet (.85 m³), with bale range dimensions of 24" to 40" (61 to 132 cm) by 30 inch to 52 inch (76 to 132 cm) by 40 inch to 84 inch (102 to 213 cm). The only acceptable tying method shall be as follows: four to six 5/8 inch (1.6 cm) x .020 inch (5 mm) steel bands, or six to ten #13 gauge steel wires (aluminium bands or wires are acceptable in equivalent strength and number). Use of skids and/or support sheets of any material is not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastic, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminium items, other than used beverage cans, are not acceptable. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Frequency: Twice a month (approx. 1st & 15th)

ISRI code: Taldon

Industrial castings:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)

Location: US/Canada, specified city

Pricing point: Dealer buying price, delivered to yard

Quality: Shall consist of all clean aluminium castings which may contain auto and airplane castings but no ingots, and to be free of iron, brass, dirt and other non-metallic items. Oil and grease not to total more than 2%.

Frequency: Twice a month (approx. 1st & 15th)

ISRI code: Tense

63S aluminium solids:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)

Location: US/Canada, specified city

Pricing point: Dealer buying price, delivered to yard

Quality: Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%. Also free from punchings less than 1/2 inch (1.27 cm) in size.

Frequency: Twice a month (approx. 1st & 15th)

ISRI code: Tough

75S aluminium clips:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new, clean, uncoated and unpainted aluminium scrap of one specified aluminium alloy with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other nonmetallic items. Oil and grease not to total more than 1%. Also free from punchings less than ½ inch (1.27 cm) in size.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Tooth

75S borings, turnings, as is:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of aluminium borings and turnings of one specified alloy. Material should be free of oxidation, dirt, free iron, stainless steel, magnesium, oil, flammable liquids, moisture and other non-metallic items. Fines should not exceed 3% through a 20 mesh (U.S. standard) screen.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Teens

Aluminium utensils:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean old alloy aluminium sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Oil and grease not to total more than 1%. Up to 10% Tale permitted.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Taint/Tabor

Painted aluminium siding:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean, low copper aluminium siding scrap, painted one or two sides, free of plastic coating, iron, dirt, corrosion, fiber, foam, or fiberglass backing or other non-metallic items.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Tale

Litho sheets:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	To consist of 1000 and/or 3000 series alloys, to be free of paper, plastic, excessively inked sheets, and any other contaminants. Minimum size of 3 inches (8 cm) in any direction.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Tablet

Lead Scrap

Heavy soft lead:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean soft scrap lead, free of other materials such as drosses, battery plates, lead covered cable, hard lead, collapsible tubes, foil, type metals, aluminium, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Racks

Mixed hard lead:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean lead solids, free of other materials, such as drosses, battery plates, lead covered cable, collapsible tubes, type metals, aluminium, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Radio

Undrained, whole old batteries:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Consisting of SLI (starting, lighting & ignition), automotive, truck, 8-D and commercial golf cart and marine-type batteries. Cases to be either plastic or rubber and to be complete. Non-lead (i.e., ni-cad, ni-fe, carbonaire, etc.) not acceptable. Other types i.e. aircraft (aluminium) gel-cel, lawnmower, etc., and partial, cracked or broken batteries or batteries without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Rink

Wheel weights:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	To consist of lead tire balances with or without iron clips. Not to include scrap lead, lugs or plates unless specifically agreed to. To be free of foreign material. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Ropes

Zinc Scrap

New zinc die cast:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of new or unused, clean, zinc base die castings. Castings to be unplated, unpainted, and free from corrosion.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Scabs

Old zinc die cast:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of miscellaneous old zinc base die castings, with or without iron and other foreign attachments. Must be free of borings, turnings, dross pieces, chunks, melted pieces and skimmings. All unmeltables, dirt, foreign attachments, and volatile substances (such as rubber, cork, plastic, grease, etc.) are deductible. Material containing in excess of 30% iron will not constitute good delivery.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Saves

Old zinc scrap:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean dry scrap zinc, such as sheets, jar lids, clean unalloyed castings and anti-corrosion plates. Borings and turnings are not acceptable. Material must not be excessively corroded or oxidized. All foreign attachments and extraneous materials are deductible.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Score

Zinc die cast automotive grilles:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean, old or used zinc base die cast automotive grilles, free from soldered material. All foreign attachments and extraneous materials are deductible.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Scout

Nickel Scrap

New nickel clips and solids:

Currency and unit:	US cents per pound (Canadian cities prices are in local currency)
Location:	US/Canada, specified city
Pricing point:	Dealer buying price, delivered to yard
Quality:	Shall consist of clean new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Nickel min. 99.00%, cobalt max. 0.25%, copper max. 0.50%. Free of castings, as well as any foreign attachments or other contamination.
Frequency:	Twice a month (approx. 1st & 15th)
ISRI code:	Radio

Nickel turnings:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Nickel min. 99.00%, cobalt max. 0.25%, copper max. 0.50%
Frequency: Twice a month (approx. 1st & 15th)

New nickel-copper alloy clips and solids:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of new, clean R and K-Monel solids and clippings. Free of cast material, foreign attachments and all other contamination.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: House

New nickel-copper alloy turnings and shavings:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of mixed Monel turnings and borings containing a minimum of 60.00% nickel content, on a dry basis.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Lemur

Nickel-copper alloy castings:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Shall consist of various types of clean Monel castings, assaying minimum 60.00% nickel. Must be free of foreign attachments or any other contamination.
Frequency: Twice a month (approx. 1st & 15th)
ISRI code: Lemon

Nickel-chrome-iron alloy solids:

Currency and unit: US cents per pound (Canadian cities prices are in local currency)
Location: US/Canada, specified city
Pricing point: Dealer buying price, delivered to yard
Quality: Nickel 76.00%, chromium 15.50%, iron 8.00%
Frequency: Twice a month (approx. 1st & 15th)

Secondary Smelters Aluminium Scrap

Mixed low copper clips:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of new, clean, uncoated and unpainted low copper aluminium scrap of two or more alloys with a minimum thickness of 0.015 inches (.38 mm) and to be free of 2000 and 7000 series, hair wire, wire screen, punchings less ½ inch (1.25 cm) diameter, dirt, and other non-metallic items. Grease and oil not to total more than 1%. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.
Frequency:	Twice a week, every Monday and Thursday
ISRI code:	Taboo

Mixed high copper clips:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys in 2000-series with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%
Frequency:	Twice a week, every Monday and Thursday
ISRI code:	Score

Mixed high zinc clips:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys in 7000-series with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%
Frequency:	Twice a week, every Monday and Thursday

1-1-3 sows:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of aluminium scrap which has been sweated or melted into a form or shape such as an ingot, sow or slab for convenience in shipping; to be free from corrosion, dross or any non-aluminium inclusions. Should be sold subject to sample or analysis.
Frequency:	Twice a week, every Monday and Thursday
ISRI code:	Throb

Siding, painted:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of clean, low copper aluminium siding scrap, painted one or two sides, free of plastic coating, iron, dirt, corrosion, fiber, foam, or fiberglass backing or other non-metallic items.
Frequency:	Twice a week, every Monday and Thursday
ISRI code:	Tale

Mixed clips:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%
Frequency:	Twice a week, every Monday and Thursday

Old sheet:

Unit and Currency:	US cents per pound
Location:	US Midwest
Pricing point:	Buying price, delivered to smelters
Quality:	Shall consist of clean old alloy aluminium sheet of two or more alloys, free of foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, radiator shells, airplane sheet, bottle caps, plastic, dirt, and other non-metallic items. Oil and grease not to total more than 1%. Up to 10% Tale permitted.
Frequency:	Twice a week, every Monday and Thursday
ISRI code:	Taint/Tabor

Old cast:

Unit and Currency: US cents per pound
Location: US Midwest
Pricing point: Buying price, delivered to smelters
Quality: Aluminium castings for consumption by secondary aluminium smelters, crushed cast, shreddable, less than 1% magnesium and zinc, low iron, low contamination; minimum recovery rate 92%
Frequency: Twice a week, every Monday and Thursday

Turnings, clean and dry, high grade:

Unit and Currency: US cents per pound
Location: US Midwest
Pricing point: Buying price, delivered to smelters
Quality: Zinc max. 1.5%. Shall consist of clean, uncorroded aluminium borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other non-metallic items. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute, material should be sold on basis of definite maximum zinc, tin and magnesium content.
Frequency: Twice a week, every Monday and Thursday

Turnings, clean and dry, mixed grade:

Unit and Currency: US cents per pound
Location: US Midwest
Pricing point: Buying price, delivered to smelters
Quality: Zinc max. 5%. Shall consist of clean, uncorroded aluminium borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other non-metallic items. Material containing iron in excess of 10% and/or free magnesium or stainless steel or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute, material should be sold on basis of definite maximum zinc, tin and magnesium content.
Frequency: Twice a week, every Monday and Thursday

Aluminium-copper radiators:

Unit and Currency: US cents per pound
Location: US Midwest
Pricing point: Buying price, delivered to smelters
Quality: Shall consist of clean aluminium and copper radiators, and/or aluminium fins on copper tubing, free of brass tubing, iron and other foreign contamination.
Frequency: Twice a week, every Monday and Thursday

Non-ferrous auto shred (90% aluminium):

Unit and Currency: US cents per pound

Location: US Midwest

Pricing point: Buying price, delivered to smelters

Quality: Derived from wet or dry media separation device, the material must be dry and not contain more than 1% maximum free zinc, 1% maximum free magnesium, and 1% maximum of analytical iron. Not to contain more than a total 2% maximum of non-metallics, of which no more than 1% shall be rubber and plastics. To be free of excessively oxidized material, air bag canisters, or any sealed or pressurized items. Any variation to be sold by special arrangement between buyer and seller.

Frequency: Twice a week, every Monday and Thursday

ISRI code: Twitch

Used beverage can scrap:

Unit and Currency: US cents per pound

Pricing point: f.o.b. shipping point

Quality: Shall have a minimum density of 14 pounds per cubic foot (225 kg/m³), and a maximum density of 17 pounds per cubic foot (273 kg/m³) for unflattened UBC and 22 pounds per cubic foot (353 kg/m³) for Guidelines for Non-ferrous Scrap Code Item Code Item flattened UBC. Size: Minimum 30 cubic feet (.85 m³), with bale range dimensions of 24" to 40" (61 to 132 cm) by 30" to 52" (76 to 132 cm) by 40" to 84" (102 to 213 cm). The only acceptable tying method shall be as follows: four to six 5/8" (1.6 cm) x .020" (5 mm) steel bands, or six to ten #13 gauge steel wires (aluminium bands or wires are acceptable in equivalent strength and number). Use of skids and/ or support sheets of any material is not acceptable. Must be magnetically separated material and free of steel, lead, bottle caps, plastic cans and other plastic, glass, wood, dirt, grease, trash, and other foreign substances. Any free lead is basis for rejection. Any and all aluminium items, other than used beverage cans, are not acceptable. Variations to this specification should be agreed upon prior to shipment between the buyer and seller.

Frequency: Twice a week, every Monday and Thursday

ISRI code: Taldon

Segregated low copper alloy clips: 5052:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: 5052 alloy scrap only. Shall consist of new, clean, uncoated and unpainted aluminium scrap of one specified aluminium alloy with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other nonmetallic items. Oil and grease not to total more than 1%. Also free from punchings less than ½ inch (1.27 cm) in size.

Frequency: Twice a week, every Monday and Thursday

ISRI code: Tooth

Segregated low copper alloy clips: 3105:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: 3105 alloy scrap only. Shall consist of new, clean, uncoated and unpainted aluminium scrap of one specified aluminium alloy with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other nonmetallic items. Oil and grease not to total more than 1%. Also free from punchings less than ½ inch (1.27 cm) in size.

Frequency: Twice a week, every Monday and Thursday

ISRI code: Tooth

Mixed low copper alloy clips:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: Shall consist of new, clean, uncoated and unpainted aluminium scrap of two or more alloys with a minimum thickness of .015 inch (.38 mm) and to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%. Also free from punchings less than ½ inch (1.27 cm) in size.

Frequency: Twice a week, every Monday and Thursday

ISRI code: Tough

Painted siding:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: Shall consist of new clean, low copper aluminium siding scrap, painted one side ONLY, free of iron, dirt, corrosion, fiber backing, pastisol and any other foreign contamination.

Frequency: Twice a week, every Monday and Thursday

Brass Mill Copper Scrap

Brass mill No. 1 copper:

Unit and Currency:	US cents per pound
Pricing point:	Delivered
Quality:	Shall consist of No. 1 bare, uncoated, unalloyed copper wire, not smaller than No. 16 B & S wire gauge. Green copper wire and hydraulically compacted material to be subject to agreement between buyer and seller.
Frequency:	Weekly. Every Wednesday
ISRI code:	Barley

Refiners' Copper Scrap

Refiners' copper No. 1:

Unit and Currency:	US cents per pound
Pricing point:	Delivered
Quality:	Shall consist of clean, untinned, uncoated, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burnt wire which is brittle. Hydraulically briquetted copper subject to agreement.
Frequency:	Weekly. Every Wednesday
ISRI code:	Berry

Refiners' copper No. 2:

Unit and Currency:	US cents per pound
Pricing point:	Delivered
Quality:	Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (min. 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.
Frequency:	Weekly. Every Wednesday
ISRI code:	Birch

Brass Ingot Makers' Copper Scrap

Brass Ingot Makers' No. 1 bare bright:

Unit and Currency:	US cents per pound
Pricing point:	Delivered buyers' works
Quality:	Shall consist of No. 1 bare, uncoated, unalloyed copper wire, not smaller than No. 16 B & S wire gauge. Green copper wire and hydraulically compacted material to be subject to agreement between buyer and seller.
Frequency:	Weekly. Every Wednesday
ISRI code:	Barley

Brass Ingot Makers' No. 1:

Unit and Currency:	US cents per pound
Pricing point:	Delivered buyers' works
Quality:	Shall consist of clean, unalloyed, uncoated copper clippings, punchings, bus bars, commutator segments, and wire not less than 1/16 of an inch thick, free of burnt wire which is brittle; but may include clean copper tubing. Hydraulically briquetted copper subject to agreement.
Frequency:	Weekly. Every Wednesday
ISRI code:	Candy

Brass Ingot Makers' No. 2:

Unit and Currency:	US cents per pound
Pricing point:	Delivered buyers' works
Quality:	Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (min. 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement.
Frequency:	Weekly. Every Wednesday
ISRI code:	Birch

Brass Ingot Makers' light copper:

Unit and Currency:	US cents per pound
Pricing point:	Delivered buyers' works
Quality:	Shall consist of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (min. 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers, and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators and fire extinguishers; refrigerator units; electrotype shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement. Any items excluded in this grade are also excluded in the higher grades above.
Frequency:	Weekly. Every Wednesday

Brass Ingot Makers' No. 1 comp. solids:

Unit and Currency: US cents per pound

Pricing point: Delivered buyers' works

Quality: Shall consist of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Shall be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; closed water meters; gates; pot pieces; ingots and burned brass; aluminium, silicon, and manganese bronzes; iron and non-metallics. No piece to measure more than 12 inches over any one part or weigh over 100 lbs. Heavier pieces acceptable upon mutual agreement between buyer and seller.

Frequency: Weekly. Every Wednesday

ISRI code: Ebony

Brass Ingot Makers' comp., borings, turnings:

Unit and Currency: US cents per pound

Pricing point: Delivered buyers' works

Quality: Shall consist of turnings from red brass composition material and should be sold subject to sample or analysis.

Frequency: Weekly. Every Wednesday

ISRI code: Enerv

Brass Ingot Makers' radiators:

Unit and Currency: US cents per pound

Pricing point: Delivered buyers' works

Quality: Shall consist of mixed automobile radiators, to be free of aluminium radiators, and iron-finned radiators. All radiators to be subject to deduction of actual iron. The tonnage specification should cover the gross weight of the radiators, unless otherwise specified.

Frequency: Weekly. Every Wednesday

ISRI code: Ocean

Brass Ingot Makers' yellow brass solids:

Unit and Currency: US cents per pound

Pricing point: Delivered buyers' works

Quality: Shall consist of mixed yellow brass solids, including brass castings, rolled brass, rod brass, tubing and miscellaneous yellow brasses, including plated brass. Must be free of manganese-bronze, aluminium bronze, unsweated radiators or radiator parts, iron, and excessively dirty and corroded materials. Must also be free of any type of munitions including, but not limited to, bullet casings.

Frequency: Weekly. Every Wednesday

ISRI code: Honey

Smelters' Lead Scrap

Scrap lead:

Unit and Currency: US dollars per hundredweight

Pricing point: Delivered to smelter

Quality: Shall consist of clean lead solids, free of other materials, such as drosses, battery plates, lead covered cable, collapsible tubes, type metals, aluminium, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Frequency: Every two weeks. Tuesday

ISRI code: Radio

Remelt lead:

Unit and Currency: US dollars per hundredweight

Pricing point: Delivered to smelter

Quality: Shall consist of clean soft scrap lead, free of other materials such as drosses, battery plates, lead covered cable, hard lead, collapsible tubes, foil, type metals, aluminium, zinc, iron and brass fittings, dirty chemical lead and radioactive materials. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Frequency: Every two weeks. Tuesday

ISRI code: Racks

Whole batteries:

Unit and Currency: US dollars per hundredweight

Pricing point: Delivered to smelter

Quality: Consisting of SLI (starting, lighting & ignition), automotive, truck, 8-D and commercial golf cart and marine-type batteries. Cases to be either plastic or rubber and to be complete. Non-lead (i.e., ni-cad, ni-fe, carbonaire, etc.) not acceptable. Other types i.e. aircraft (aluminium) gel-cel, lawnmower, etc., and partial, cracked or broken batteries or batteries without caps and the amount of liquid content and any variations to the specification subject to special agreement. Review packaging specifications and regulatory status pertaining to shipping with buyer prior to sale.

Frequency: Every two weeks. Tuesday

ISRI code: Rink

Cable lead:

Unit and Currency: US dollars per hundredweight

Pricing point: Delivered to smelter

Quality: Free of armored covered cable, and foreign material.

Frequency: Every two weeks. Tuesday

ISRI code: Relay

Smelters' Zinc Scrap

New zinc clippings:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: Shall consist of any new pure zinc sheets or stampings free from corrosion. To contain no foreign material or attachments. Printers zinc, such as engravers zinc, lithograph sheets and addressograph plates subject to special arrangements. Printers zinc to be free of routings.

Frequency: Every two weeks. Tuesday

ISRI code: Screen

Old zinc (clean):

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: Shall consist of clean dry scrap zinc, such as sheets, jar lids, clean unalloyed castings and anti-corrosion plates. Borings and turnings are not acceptable. Material must not be excessively corroded or oxidized. All foreign attachments and extraneous materials are deductible.

Frequency: Every two weeks. Tuesday

ISRI code: Score

Galvanizers' dross:

Unit and Currency: US cents per pound

Pricing point: Delivered

Quality: Shall consist of unsweated zinc dross removed from the top of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 90%. Heavier pieces acceptable upon mutual agreement between buyer and seller. Shall be free of skimmings. Broken pieces under 2 inches in diameter shall not exceed 10% of the weight of each shipment.

Frequency: Every two weeks. Tuesday

ISRI code: Seal

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