

Industrial Organic Residue Management

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Rodney J. Fry, P.Eng.

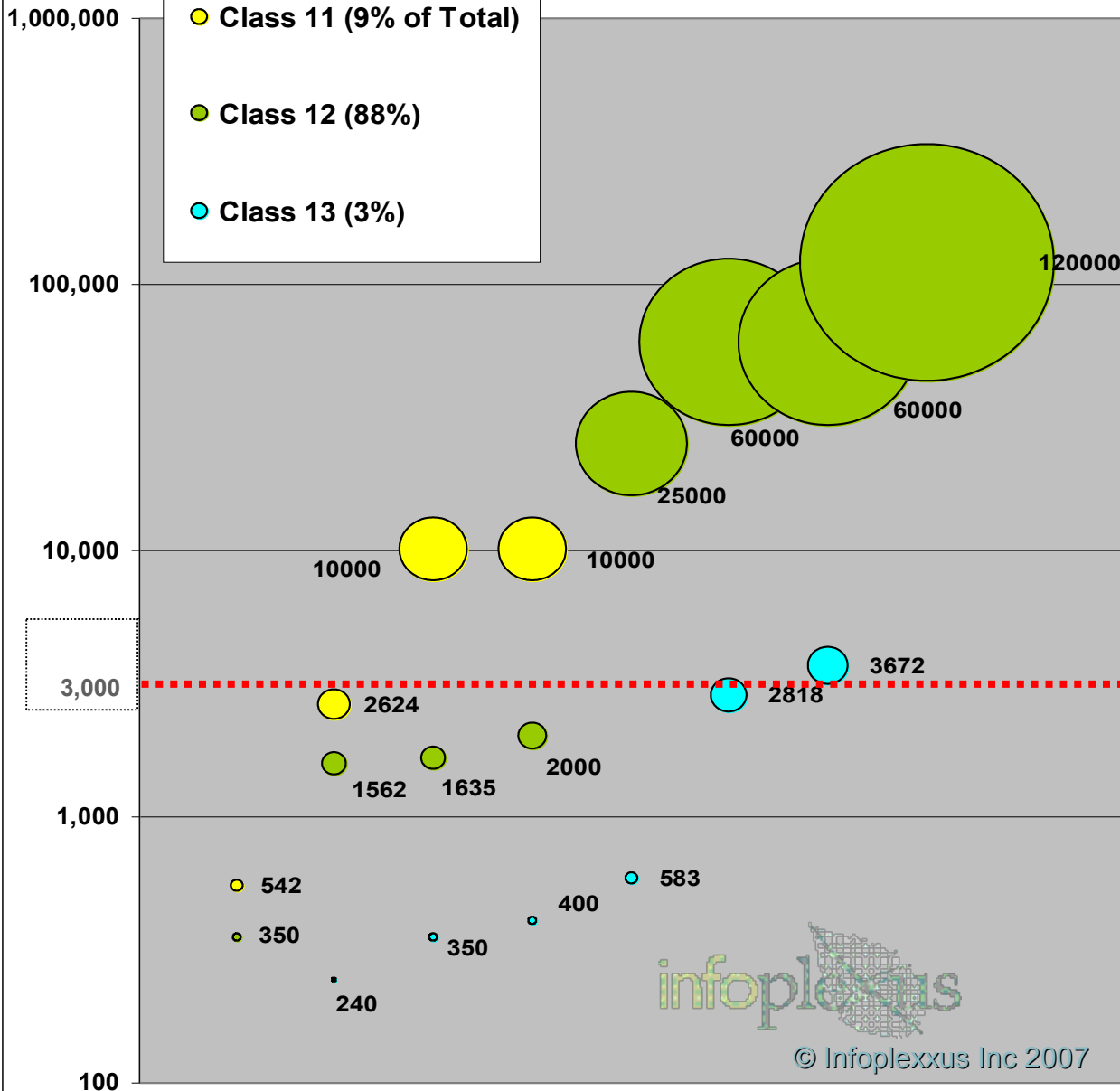
Web: www.envirem.com

Email: rodf@envirem.com

Ph: (506) 459-3464

Composting in New Brunswick

Volume of Feedstock - Data from 18 Facilities

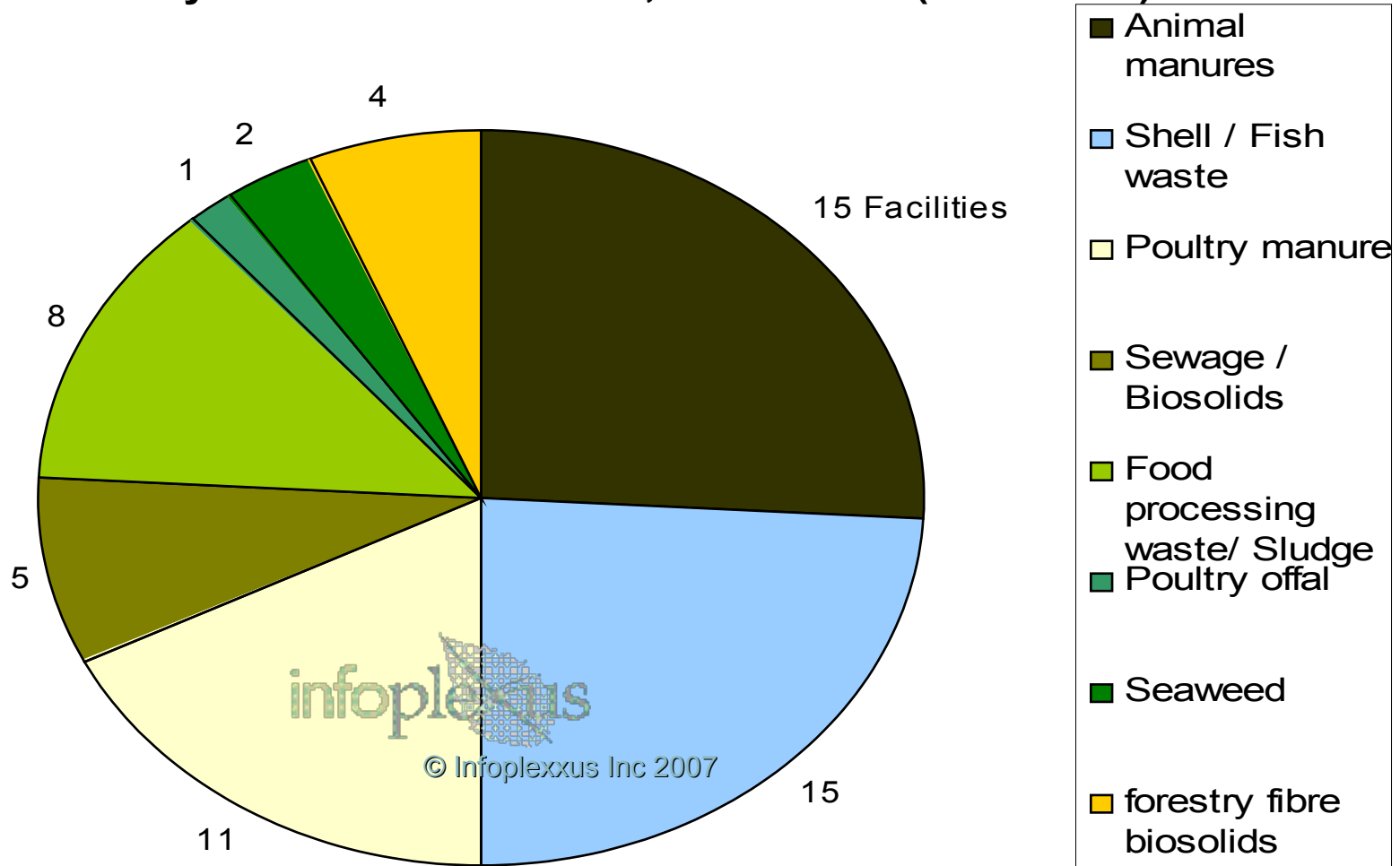


33 licensed facilities in NB

- 314,000 tonnes
- 6 MSW or biosolid facilities (Class 11) = 9% of total volume
- 10 at > 3,000 t/y (Class 12) = 88%
- 16 < 3,000 t/y (Class 13) = 3%

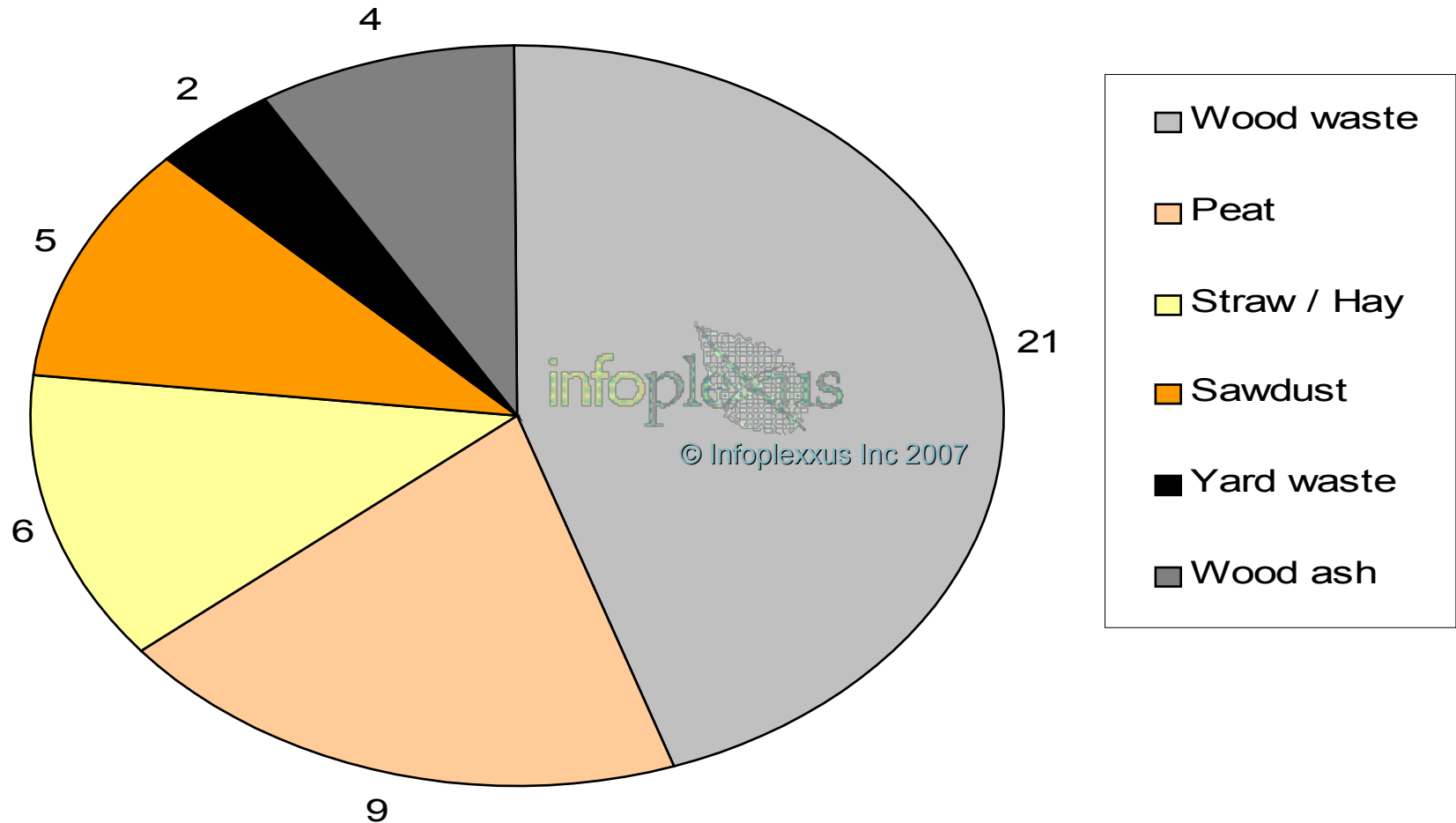
Non-MSW Composting in NB

**Nutrient Feedstocks Composted in NB
by Number of Facilities, All Classes (Total =33)**



Non-MSW Composting in NB

**Carbon Feedstocks Composted in NB
by Number of Facilities, All Classes (Total =33)**



Wood Wastes from Sawmills, Forest Product Mills

- 1) **wood-yard scrapings,**
- 2) **sawdust,**
- 3) **chips,**
- 4) **fines,**
- 5) **kiln-dried shavings**
- 6) **tops & ends,**
- 7) **stumps, or logs**
- 8) **knots,**
- 9) **cedar slab waste**
- 10) **shingle hair waste**
- 11) **wood-ash from biomass boiler**
- 12) **waste manufactured board or wood products,**
- 13) **mining of current or historical industrial-owned wood-waste landfills**

Current disposal options include:

- **use as biomass within cogeneration boiler facilities,**
- **as feedstock in mulch production,**
- **production of wood pellet fuel,**
- **barn litter,**
- **production of secondary pulp/paper or wood products**
- **disposed in industrial landfill**
- **feedstock for composting**

Bark Wastes from Sawmills, Forest Products Mills

- 1) **wood-yard scrapings**
- 2) **bark from wet/dry debarkers,**
- 3) **hot-ponds bark waste,**
- 4) **hogfuel or chipper waste**
- 5) **green biomass waste from woodlands operations,**
- 6) **mining of current or historical industrial-owned bark waste landfills**

Current disposal options include:

- **use as biomass within cogeneration boiler facilities,**
- **as feedstock in mulch production,**
- **disposed in industrial landfill**
- **feedstock for composting**

Pulp and Paper Mill Residues

- 1) **biosolids from settling ponds and lagoons**
- 2) **primary clarifier biosolids**
- 3) **secondary wwtp biosolids**
- 4) **anaerobic digestate biosolids**
- 5) **waste paper carbon fibre,**
- 6) **waste clay-fibre,**
- 7) **pin-chips,**
- 8) **chip fines,**
- 9) **screening rejects and knots**
- 10) **wood-ash, fly-ash and bottom-ash**
- 11) **precipitated lime,**
- 12) **grits and dregs**
- 13) **bio-sulphur slurry**
- 14) **mining of current or historical industrial-owned landfills**

Current disposal options include:

- **disposed in industrial landfills or lagoons,**
- **land spreading as soil amendment,**
- **placed in noise berms,**
- **feedstock for Anaerobic Digestion**
- **feedstock for composting**

Livestock and Feedlot Residues

- 1) **manures and bedding**
- 2) **poultry layer manure**
- 3) **poultry broiler manure bedding**
- 4) **beef manure,**
- 5) **horse manures**
- 6) **swine manure**
- 7) **sheep manure**
- 8) **swine lagoon DAF solids**
- 9) **Race track manure**
- 10) **zoo or park animals manure and bedding**

Current disposal options include:

- **land spreading as fertilizer**
- **disposed in landfill or lagoons,**
- **feedstock for Anaerobic Digestion**
- **feedstock for composting**
- **CFIA restricting re-use back into animal feeds**

Livestock Processing, Slaughterhouse and Rendering Residues

- 1) **dead or diseased cull animals**
- 2) **SRM diseased materials**
- 3) **slaughterhouse wastes**
- 4) **paunch manure,**
- 5) **feathers,**
- 6) **hides, skins**
- 7) **blood-water**
- 8) **carcasses from fur-bearing animals
mink, fox, or seal**
- 9) **other animal processing wastes**
- 10) **bone-meals,**
- 11) **blood meals**
- 12) **feather-meals**
- 13) **waste from animal feed production
plants,**
- 14) **wastes from rendering plants**

Current disposal options include:

- **land spreading as fertilizer**
- **disposed in landfill or lagoons,**
- **feedstock for Anaerobic Digestion**
- **feedstock for composting**
- **CFIA restricting re-use back into
animal feeds**

Salmon and Fin-Fish Aquaculture and Fish Processing Residues

- 1) **fish processing residues,**
- 2) **DAF solids from fish processing plant**
- 3) **mortalities,**
- 4) **viscera,**
- 5) **heads and racks,**
- 6) **blood-water**
- 7) **net-cleaning wastes**
- 8) **fish feces,**
- 9) **aquaculture cage bottom cleaning wastes,**
- 10) **waste from seaweed or kelp harvesting/processing operations,**
- 11) **algae bloom wastes,**
- 12) **shoreline clean-up wastes,**
- 13) **off-shore fishery wastes from boats,**
- 14) **fishing ship bilge clean-out wastes**

Current disposal options include:

- **re-use within rendering industries,**
- **land spreading as fertilizer**
- **disposed in landfill or lagoons,**
- **feedstock for Anaerobic Digestion**
- **feedstock for composting**

Shellfish Aquaculture and Shellfish Processing Residues

- 1) **lobster & shells,**
- 2) **clam & shells,**
- 3) **mussel and shells,**
- 4) **shrimp and shells**
- 5) **oyster and shells,**
- 6) **cooked shellfish processing waste**

Current disposal options include:

- **re-use within rendering industries,**
- **land spreading as fertilizer**
- **disposed in landfill or lagoons,**
- **feedstock for composting**

Agriculture Food Processing Residues

- 1) potato skins and peels,
- 2) lagoon biosolids
- 3) digester cake
- 4) blueberry screenings
- 5) cranberry screenings
- 6) spent mushroom wastes,
- 7) pharmaceutical/ nutraceutical wastes
- 8) dredge material from lagoon of food processing plants

Current disposal options include:

- re-use within rendering or feed industries,
- land spreading as fertilizer
- disposed in landfill or lagoons,
- feedstock for Anaerobic Digestion,
- feedstock for composting

Municipal Wastewater Treatment Biosolids

- 1) lime stabilized sewage biosolids,
- 2) sewage lagoon dredging wastes
- 3) dried or dewatered sewage biosolids
- 4) septage tank wastes and dewatered septage biosolids,
- 5) anaerobic digestate from sewage wwtp,
- 6) sewage biosolids from drying beds

Current disposal options include:

- disposed in municipal landfills or lagoons,
- land spreading as soil amendment,
- dried or pelletized as a fertilizer
- feedstock for Anaerobic Digestion
- feedstock for composting