Meal Bins

- Flat and Corrugated – 12mm or 25mm
- Pipes - one inlet pipe and one or two venting pipes or split bin- 2 inlet pipes and 2 venting pipes
- Bridging control
  - Vibrating motor - too much leads to packing
  - Fan - air cannon
  - Magnetic pulse
  - Bar with chains attached to auger/expensive
Meal Bin in Kildalton with air cannon bridging control, unloading auger and one inlet pipe and two venting pipes
Bins and Flexi-augers

- Flexi-auger diameters
  - 55mm poultry,
  - 75mm pigs/dairy,
  - 90mm high output/beet pulp nuts
- One flexi-auger can have one 90° and one 45° bend
- The bin must be at least 1.5m beyond the nearest meal trough (front or rear)
Flexi-augers

- Minimum bend radii
  - 45° and 0.75m radius
  - 90° and 1.5m radius
- Options for bringing it into the parlour
  - Two separate lines are better than one
    - less wear and tear
    - less electrical work
    - less noise/more efficient/flexible
Bins and Augers

• Release some meal 5 minutes after filling to help prevent bridging - nuts may be warm
• Slides to shut off parlour hoppers
• First and last - which fills first?
• Bin angles
  - 60 deg. - nuts
  - 65-70 deg. coarse ration
  - 70 deg. full fat soya
• Warm nuts will bridge - molasses sticks them together
Big high level bins

- Hexagonal with 5’ flat sides 2.5 tonnes per ft. ht.
- 12’ across the flat and 13’ across the diagonals
- 30’ high
- Mc Keown’s, Bailleboro
- Price ?
Molasses

• 3000 diet feeders (in 2000) - 40% use molasses – according to industry sources
• Brochure and information pack available from Premier Molasses, Harbour Rd, Foynes, Co. Limerick - contact person - Eamonn Byrne, 069 65311 or www.indigo.ie/premiermolases/
• Every 5°C drop in temp. doubles viscosity
• 156 gals/tonne - 73% DM - s.g 1.4 (range 1.35-1.45)
• Premier gets it at 78-80% DM
• Storage and filling systems
  - pump - tank on/near ground
  - gravity flow - over top or in unloading door in diet feeder
  - gravity flow into loader bucket is messy
  - purpose built tank c/w stand and proper valve
  - 100mm or 125mm pipe and valve for gravity flow system

The Irish Agriculture and Food Development Authority