Manor Farm, Wilton

Mr. David Lemon

Manor Farm is interested in 2 rainwater harvesting schemes, at the sprayer mixing and storage shed and for the new cattle shed at the bale storage area.

1. Sprayer shed.

Roof area 430m² x 814mm rainfall x 0.8 efficiency = 280m³ (280,000litres max annual rainfall)

Maximum monthly rainfall 70mm x 430 x 0.8 = 24,000litres

A 30,000litre plastic tank seems to be the largest available costs from £3,500 and its dimensions are diameter 3.54m x height 3.65m if situated within the sprayer shed

2. Cattle Watering



Roof area is estimated at 1200m², with new Steel roof increasing efficiency

1200m² x .814 x .85 = 830m³ (830,000 litres)

30 dry cows can drink approximately 50 litres/day = 1500 x 150 days = 135,000 litres

November to March provides 382mm rain = 458,000l

A 100,000 litre steel tank set to gravity feed the supply Costs from £4000.

Country side Stewardship grant aids if successful under RP18 £73.34/m³ plus Rainwater goods RP16 £11.55/m and First flush diverter RP9 £174/unit

Planning permission, CSFA approval and all works must meet British standards

Please be aware any rainwater falling on an open cattle feed or collecting yard within a NVZ is classed as slurry and will need to be collected and stored for 5 months and not spread within the closed periods