The Scapegoat, Holman Hunt
Big Bird Too Large for Sesame Street

If it walks like a duck and quacks like a duck, the saying goes, then it’s a duck. A ten-foot-tall, 1,500-pound bird that hung around a water hole in the outback of Australia eight million years ago didn’t quack, but paleontologist Peter F. Murray says it was a gigantic duck—or maybe a goose.

It is the biggest bird yet known, slightly larger than the previous titleholder, Madagascar’s elephant bird, which became extinct about 500 years ago.

Murray has excavated remains of Dromornis stirtoni at Alcoota, 100 miles northeast of Alice Springs. At Camfield Station, 250 miles north of Alice, the Northern Territory Museum scientist also uncovered several skulls of a slightly smaller but related bird, Bullockornis plaei (left and above), which was four million years older.

The two had been known only from fragmentary remains, which made it difficult for experts to place them in the avian scheme of things. But Murray’s finds have enabled him to make a detailed examination of the birds’ characteristics. He concludes that their closest relatives are geese and ducks, not raities like the kiwi or the emu, as had previously been thought.

The birds’ enormous size deprived them of one typical bird trait, Murray says: They were too heavy to fly.
A NAUSEATING JOB, BUT IT MUST BE DONE

(Resident Roosevelt takes hold of the investigating muck-rake himself in the packing-house scandal.)
The Great Horse Manure Crisis of 1884

1894, The Times newspaper predicted… “In 50 years, every street in London will be buried under nine feet of manure.”
What % of AMR infections in people are caused by use of AM in livestock and fish?

- <5%
- 5-15%
- 15-50%
- We don’t know
What you worry about and what makes you sick and kills you are not the same.
### Cases of FBD per year in India

<table>
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<tr>
<th>Method</th>
<th>Cases</th>
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<tbody>
<tr>
<td>Community surveys</td>
<td>Around 3 billion cases</td>
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<tr>
<td>Comparisons with other countries</td>
<td>Around 400 million</td>
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<tr>
<td>World Health Organisation FERG</td>
<td>Around 100 million</td>
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<tr>
<td>Media reports</td>
<td>Around 20,000 cases</td>
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<tr>
<td>Official reports</td>
<td>Around 100 cases</td>
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Pareto principle: the vital few and the trivial many

The top 10 human disease cause 90% burden

WHO, 2014

Grace et al., 2012
Ferguson study
First global study of burden of FBD

Havelaar et al., 2015