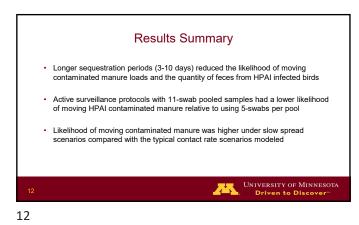
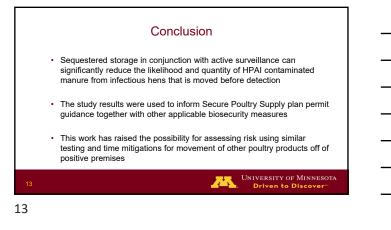


Loads N	loved Off	the Pre	mises l	Before	Detection	on
Adequate contact	Pool size for	Mean H5N2 HPAI virus concentration (log ₁₀ EID ₅₀ per- gram) in an 8 metric ton load (8000 kg) of manure mov Sequestration period (days)				
rate scenario	Daily RRT- PCR testing	0	3	5	7	10
Typical	5	3.7	2.5	2.2	2.2	2.1
	11	3.4	2.3	2.1	2	1.4
Slow	5	3.2	2.9	2.8	2.7	2.6
	11	3	2.7	2.6	2.5	2.4







- The likelihood of contamination of stored eggs may depend on the source and timing of collection.
 - Eggs from uninfected premises
 - Eggs from test-negative barns on the infected premises
 - Eggs laid by infected flocks several days before detection
 - Eggs laid by infected flocks close to detection (these are disposed)

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Parameter name	Parameter description	Distribution/Value
Latent period distribution	Length of the latent period	Gamma distributed: mean 0.71 days; standard deviation 0.48 days; shape 2.21; scale 0.32
Infectious period distribution	Length of the infectious period	Weibull distributed: mean 3.76 days; standard deviation 1.99 days; shape 1.97; scale 4.24
Manure production rate	Amount of manure per-hen per-day	80 grams per-hen per-day
House size	Number of layer hens per-house	100,000 birds
rRT-PCR test sensitivity	Probability of detection given that at least one swab from an infectious bird is included in the pool	Beta distributed: 0.865

