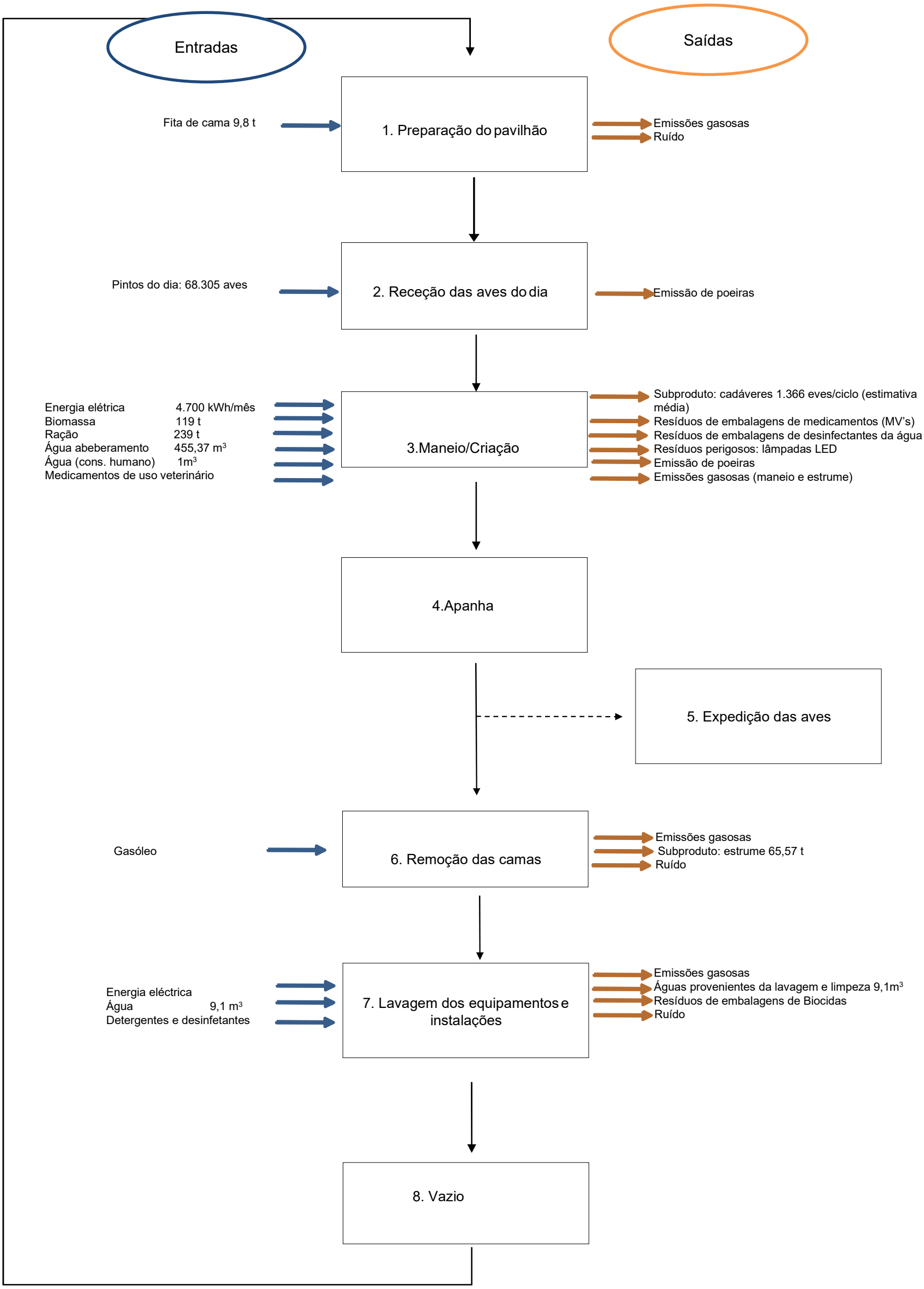Fluxograma dos balanços mássicos e energéticos por ciclo