MWPS-72699

Farrowing & Gestation Building

20 farrowing & 25 gestation stalls. This plan is for a 33' x 64' (or 66') stud-frame building housing 20 farrowing sows and 25 gestation sows in the same room. Exposing the gestation sows to the farrowing room 6-7 weeks before farrowing allows them to adjust to the new environment and to build up an apparent immunity in their pigs. Year-round mechanical ventilation is provided. Plan A shows a totally slotted floor over a liquid manure storage pit Plan B shows a partly slotted floor over a flush gutter.

CAUTION!

Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access. Furthermore, any deviation from the given specifications may result in structural failure, property damage, and personal injury including loss of life.

WARRANTY DISCLAIMER

This plan provides conceptual information only. **Neither midwest plan service nor any of the cooperating land-grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan.** Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access.



20 Farrowing & 25 Gestation Stalls Plan MWPS-72699 Farrowing and Gestation Building

-Siphon Flush Tank

Sow

Alley

This plan is for a 33's 64' (or 65') stud-frame building hous-ing 20 larrowing sows and 25 gestation sows in the same room. Exposing the gestation sows to the tarrowing room 6'. Y weeks before tarrowing allows them to adjust to the new environment and to build up an apparent immunity in there types. Year-courd mechanical ventilation is provided. Plan A solves a totally solited floor over a liquid manure storage pit. Plan B shows a parity solited floor over a flush gutter.

33'

General Specifications

Fans: Select exhaust fans for the stated capacity at 1/6" static pressure. especially pit fans to prevent backdrafting when larger

Plts: Use 3500 psi concrete with 7% air entrainment. Use steel of at least 40,000 psi yield, install steel and concrete ans turn on

carefully and accurately. Pump pits to within 6" of the bottom at least once a year

Check for solids buildup: increase aglation and pump from port nearest its solids buildup: an early humping Heat: Desired from all temperature is about 72°F. Provide 70,000-75,000 Blurh supplemental heat (3000 Blurhnfarrowing stell and 500 Blurh gestation stell).

It hearts supplied in the floor or with heated mats on the stats provide about 150 varts (550 Bul) per farrowing stato I floor heart, plus about 250 varts (900 Bul) per farrowing stall with oreefheed heat lamps or radiant heaters for use during farcwing incolicon heart suscel, provide exerthead heart of about 600 varies into licon heart suscel, provide exerthead heart of about 600 varies (2000 Bturhr) per farrowing stall.

Protecting swine from fan failure

- We know of no devoe that will successfully ventilate a hop house automatically in the case of failure of one or more fans or the whole electric supply system. Install a loud automatic warning system to alert anyone at or near the farm mstead.

- Have someone baby-sit your animals if you are going to be away for more than a tew trouts. If there are storm warnings out, or it your herd is in an expectably sometime stage (a number of newborn litters. For example).
 Post instructions on what to do in hor weather, mid weath-er, cold weather, who to phone for additional advoc, etc.
 Prepare waik doors and perhaps summer ventilation panels to be proped open part away or fully conclained coors, operate prans and in hor weather. Indicopened doors, operate prans and in hor weather. Indicopened doors, operate prans and in hor weather, conclaind frans.
 Consider a stand-by generator to sugment hand-opened doors, operate prans and in hor weather, conclaind frans.
- when power fails

Manure storage pit

Pt depth is based on 0.54 cu ft/day manure per farrowing stall, 0.15 cu ft/day manure per gestation stall, 6' left in pit atter pumping, 6' freeboard, and 12' additional clearance to improve underfloor ventilation.

Slat designs

variation and grouting. Dimensions in these plans assume concrete slats as listed below and may need to be adjusted for other designs or mate-nals. Allow about 22 at each end of a stat for construction

Stat Pig Farrowing, Sow-pig Cestation (nes) span nursery Finishing Nursery, Gestation (statis)** Boar (pens) 4' 4'/4'.#3 4'/4'.#3 Width X (epit) lower bar size 4'/4'.#3 6' 4'X4'.#3 4'/4'.#3 4'/4'.#3 4'/4'.#3 8' 4'X4'.#3 4'/4'.#4 4'/4'.#4 4'/4'.#4 8' 4'X5'.#4 4'/5'.#4 5'/5'.#5 4'/6'.#5 10' 4'X5'.#4 5'/X5'.#5 4'/6'.#5 5'/X5'.#5 10' 4'X5'.#4 5'/X5'.#5 4'/6'.#5 5'/X5'.#5 10' 4'X5'.#4 5'/X5'.#5 4'/6'.#5 5'/X5'.#5
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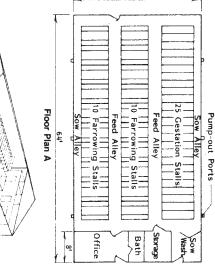
Concrete stats are not recommended for nos under 40 lb	columns 35 psf 50 psf	50 plf 100 plf	Design Loads Slats Per foot of slat
for nos under 40 lb	65 psf	150 ptf	
	65 psf	150 pit	

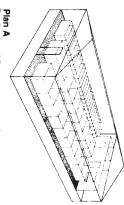
SOMS

"For sows in stalls, use a maximum of 4" wide stats

WEEKS

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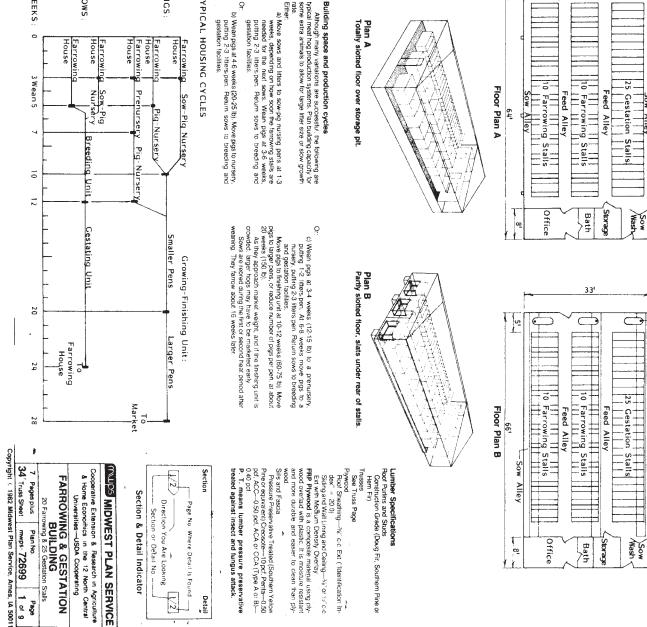
rate Although many variations are successful, the following are typical meat hog production systems. Plan building capacity for some extra animals to allow for large litter size or slow growth

FILLER

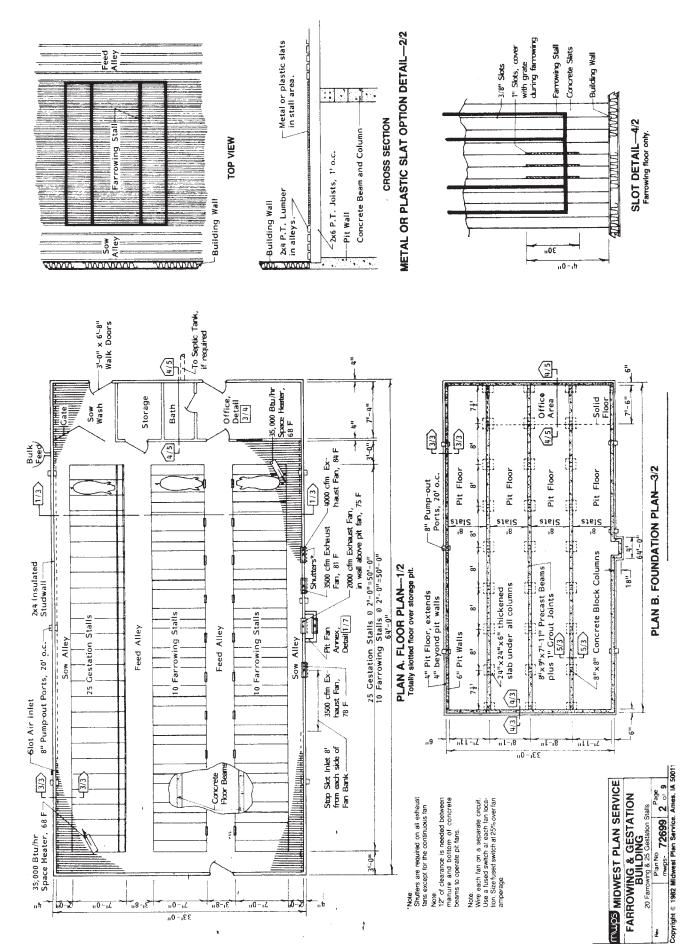
- 9
- b) Wean pigs at 4-6 weeks (20-25 lb). Move pigs to nursery, putting 2-3 litters/pen. Return sows to breeding and gestation facilities

TYPICAL HOUSING CYCLES

PICS:



Page Page 6 7 similar to pages similar to page . JF 72601 ~7 of 72694



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