



WATER

WATER Vaccination

VACCINE STORAGE AND TRANSPORT

- Store at 2-8°C (35-45°F).
- Transport in cooler with ice pack until used.
- Do not expose to sunlight.

WATER

- **Quality:** check twice yearly for organic matter, chlorine, pH, heavy metals, bacteria. Keep a record of analysis results.
Chlorinator: turn off 72 hours before vaccination.
Aqueduct: use charcoal filter 72 hours prior to vaccination.
- **Quantity:** if a water meter is used, vaccinate with 40% of the daily consumption.
- The vaccine should be consumed within two hours.
- A practice run using only water, one or two days before vaccination, will verify the amount of water needed for vaccination.

GUIDELINES FOR WATER VACCINATION IN LITRES PER 1,000 BIRDS

Age (wks)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Broiler Chickens	10	20	29	38													
Replacement Pullets	7	14	24	30	33	38	44	48	51	57	60	65	68	71	74	76	76
Turkeys (repr.)	15	30	45	60	76	98	120	151	181	204	227	250	257	264	257	257	257
Turkeys (meat)	10	23	38	53	60	68	76										

- **Important:** Assuming an outside temperature of 21°C (70°F).
The values can change dependent on temperature, season, humidity and feed type.

DRINKERS

Bell drinkers: 1/100 birds
Troughs 6': 1/150 birds

Nipples: 1/15 birds
Troughs 8': 1/200 birds

Cups: 1/30 birds

HYGIENE

- Clean the drinkers with a mild soap. Do not use a disinfectant.
- Flush the water lines.
- Rinse with water and powdered milk (1 lb./50 gallons) (~454g/ 190 litres).
- If possible, avoid filters and pressure reducers (to avoid minerals, bacteria and disinfectant residues).

WATER STARVATION

- Should create a degree of thirst in the birds.
- Guideline of two hours before vaccination.
- **Breeders:** turn off the water one hour before turning off the lights. Vaccinate one hour after the lights are turned on.
- Vaccinate on feed day, after feeding.

VACCINE PREPARATION

- Add skim milk powder (1 lb./50 gallons) (~454g/ 190 litres) to water used for vaccination and mix thoroughly.
- Dissolve the vaccine by adding water to the vaccine vials.
- Add the vaccine to the skim milk solution.
- Rinse each vial properly (otherwise, 15% of the vaccine may be lost), mix the vaccine solution thoroughly.
- Note the serial number and the expiry date of vaccines.

VACCINATION

- Vaccinate on feed days.
- Bell drinkers, troughs and cups: pour by hand into each drinker.
- Nipples: transfer the vaccine from a tank to water lines with a sump pump (1/3 H.P) or by gravity.
- Open the water line at the end of the line.
- Close the line when the white vaccine solution comes through.
- **Avoid using a medicator or a proportioner**
- Walk among the birds to encourage drinking.
- Water the birds when the vaccine is completely consumed.

SAFETY MEASURES AND EMPTY CONTAINER DISPOSAL

- Wear gloves, mask and safety glasses during preparation and vaccine administration to avoid eye infection (conjunctivitis) following Newcastle virus contact. Burn all empty containers.