Growt



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- · Improved gr
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growt

- · health conse
- · trimmer care

growth

- · anabolic ste
 - natural & syn
 - mostly testos
- · beta adreno
 - -denbuterol (i
 - -ractopamine
- somatotropi

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erolds / HGPs			
nthetic			
sterone derivatives			
ceptor agonists			
illegal)			
(pigs with SOP)			
in (BST)			

more growth promoters

- · antibiotic (feed additives)
- rumen modifiers
 - -ionophores e.g. monensin
- · probiotics
 - Lactobacillus spp

hormonal growth promoters

- · Good nutrition is essential
- · Record keeping required
- · European Union bans use

hormonal growth promoters

- androgens
 - -testosterone
 - -trenbolone acetate
- oestrogens
- -oestradiol
- -zeranol
- progestagens
 - -progesterone

Hormonal Growth Promotants

- · mechanism of action
 - increase nitrogen retention
 - -decrease catabolism
- -growth hormone

hormonal growth promoters

- · rate of gain 1 10-15%
- more muscling
 - -thicker fibrils
 - -may be tougher meat
- · less fat (wastage)

side effects

- · increased mounting
- · rectal & vaginal prolapse
- · oedema
- · udder development
- · abortion if pregnant

hormonal growth promoters

- · Compudose 100, 200, 400
 - -Oestradiol benzoate
- · Implus Magnum
- Oestradiol benzoate
- -Trenbolone acetate

hormonal growth promoters

- · Revalor H and Revalor S:
 - Oestradiol benzoate
 - Trenbolone acetate

hormonal growth promoters

- · Synovex S, H, Plus:
 - Oestradiol monobenzoate
 - -Trenbolone acetate
- · Synovex C
- -Oestradiol monobenzoate
- -Progesterone

uses

- · Steers, Heifers (non-breeding)
 - Compudose, Implus, Revalor & Synovex
- Calves
 - -Compudose, Implus, Revalor & Synovex
- Bulls
 - -(zeranol Raigro® no NZ license)

MAF Requirements

- · HGPs are for use in cattle only.
- HGPs are administered by a veterinarian or trained technician.
- · HGPs implanted in the ear only

MAF Requirements

- · ear tags
 - MAF approved ear tag
 - -secondary ID tag
 - -orange "growth promotant" tag
 - -lost ear tags must be replaced
- MAF approved ear tags must not be used for any other purpose

hormonal growth promoters



MAF Requirements

- Records completed at time of implantation and kept for 5 years
- Fines up to \$20,000 for individuals and up to \$100,000 for companies for noncompliance

hormonal growth promoters





implantation

anabolic steroids

- · uses
 - -convalescing animals
 - -renal disease (anaem
 - -performance enhancers
- · products
 - -ethylestrenol
 - nandrolone
 - -stanolozol



anabolic steroids

- · Stimulate erythropoiesis
 - -Bone marrow
- · Stimulate appetite
- · Muscle mass increased
- · Promote healing

contraindications

- · Anticoagulants (warfarin)
- · Diabetes I insulin need
- · Liver disease

consider

- · Monitor liver function (tests)
- · Monitor weight
- Appetite
- · Blood serum electrolytes

somatotropin

- peptide
 - -must be injected daily
- · use
 - -BST used overseas
- -PST registered in NZ but not used
- -EST registered but no real indications

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growth promoters

- · HGPs cattle only
 - National database: http://atis.org.nz
 - info: http://www.foodsafety.govf.nz/industry/ sectors/meat-ostrich-emu-game/hgps/ vets.htm
- Anabolic steroids
 - use with great care diversion
- Rumen modifiers
 - minimal anabolic effect on grazing cattle