

The Value of a Topdress

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Show Feed Manager/Nutritionist

Profile Nutrition

Base Feed vs Requirements

- Basic requirements of the pig depend upon:
 - **Gender** (male or female) gilts will be leaner, eat less, and grow slower
 - **Lean growth potential** - % lean or muscle, amount of backfat etc.. ↑ Muscle ↑ AA needed
 - **Environment** - colder = higher requirements
 - **Feed intake** - ambient temperature, gender, environment, immune status all impact voluntary feed intake

Base Feed vs Requirements

- Example:
 - Modern showpig
 - 60% + lean
 - 1.8 – 2.0 ADG
 - Barrow
 - High lean growth potential
 - Lysine requirements:
 - 50 – 100 15 - 19 g/day
 - 100 – 200 19 - 22 g/day
 - 200 – 270 23 - 25 g/day

Base Feed vs Requirements

- What does the base feed supply?
- Example showpig feed:
 - 20% crude protein
 - 1.2% lysine
 - 0.7 – 0.8% Ca
 - 0.6 – 0.7% P
 - 0.35- 0.4% Available P
 - 4.0% crude fat
 - 1500 kcal/lb (NRC)

Why Use a Topdress?

- What a Topdress supplies:
 - Protein
 - Amino acids (lysine most important)
 - Minerals (Ca, P,)
 - Vitamins (A,D,E, & B vitamins)
 - Energy (fat & carbohydrates)
 - Other nutrients
- For this example = 2.0% lysine

Base Feed vs Requirements

Pig's Lys requirement:

| Wt. range | Lys g/day |
|-----------|-----------|
| 50 – 100 | 15 - 19 |
| 100 – 200 | 19 - 22 |
| 200 – 270 | 23 - 25 |

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|-----------|-----------|
| 50 – 100 | 15 - 19 |
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| 200 – 270 | 23 - 25 |

Base feed supplies:

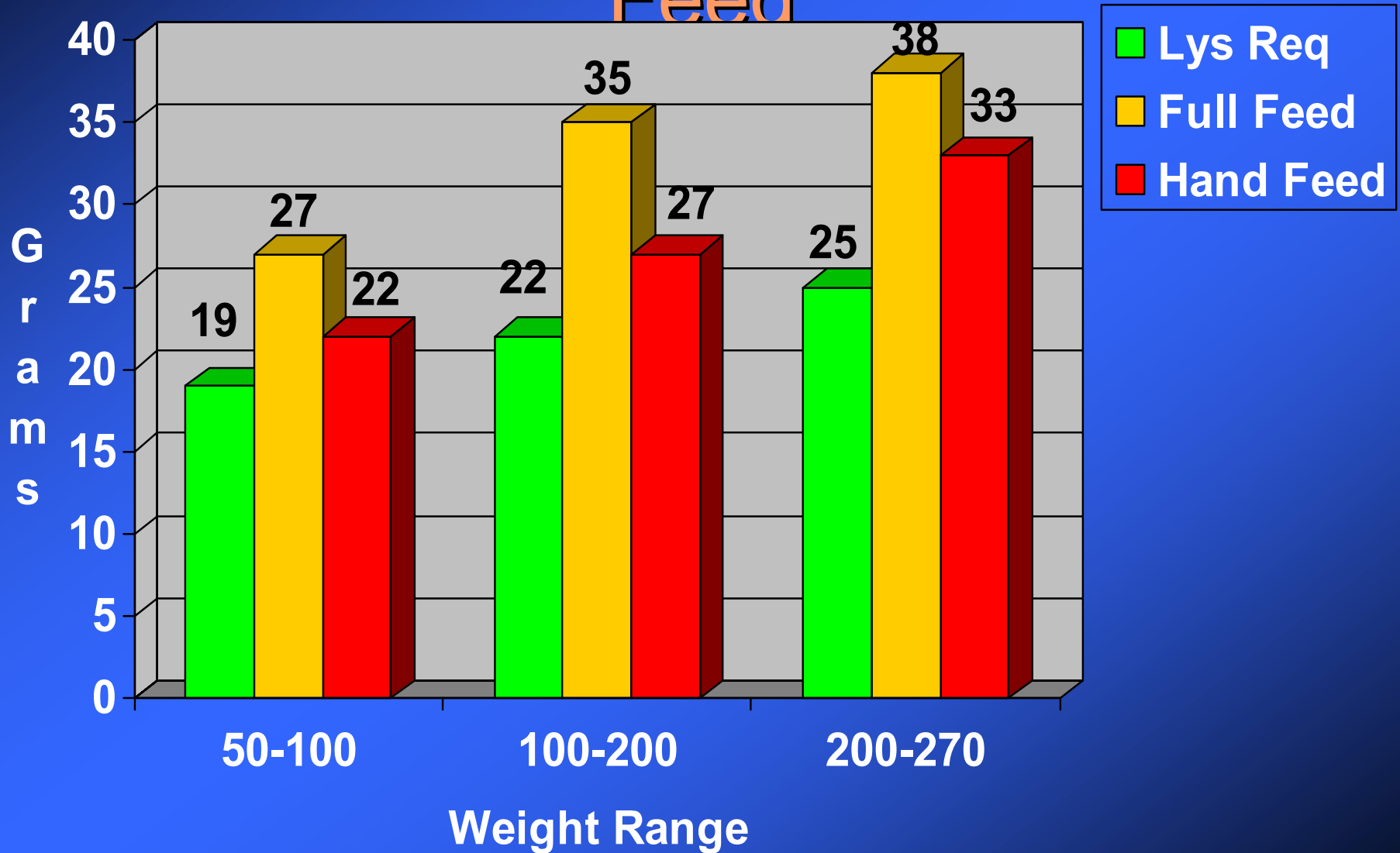
Self Feeder

| Feed Intake | Lys g/day |
|-------------|-----------|
| 4.0 – 5.0 | 22 - 27 |
| 5.0 – 6.5 | 27 - 35 |
| 6.5 – 7.0 | 35 - 38 |

Hand Feeding

| Feed Intake | Lys g/day |
|-------------|-----------|
| 3.0 – 4.0 | 16 - 22 |
| 4.0 – 5.0 | 22 - 27 |
| 5.0 – 6.0 | 27 - 33 |

Daily Lysine Requirement & Base Feed



Using a Topdress Correctly

- Example:
 - Pig weighs 260 lbs
 - Upper weight limit is 270 lbs
 - 14 days until show
 - Desired gain about 1 lb/day
 - Want to retain muscle and freshness
 - Pig's lysine requirement is about 25 grams/day

Using a Topdress Correctly

2 lbs/day basic feed (1.2% lysine)

- $2 \times 453.6 \times 0.012 = 10.9$ grams lysine

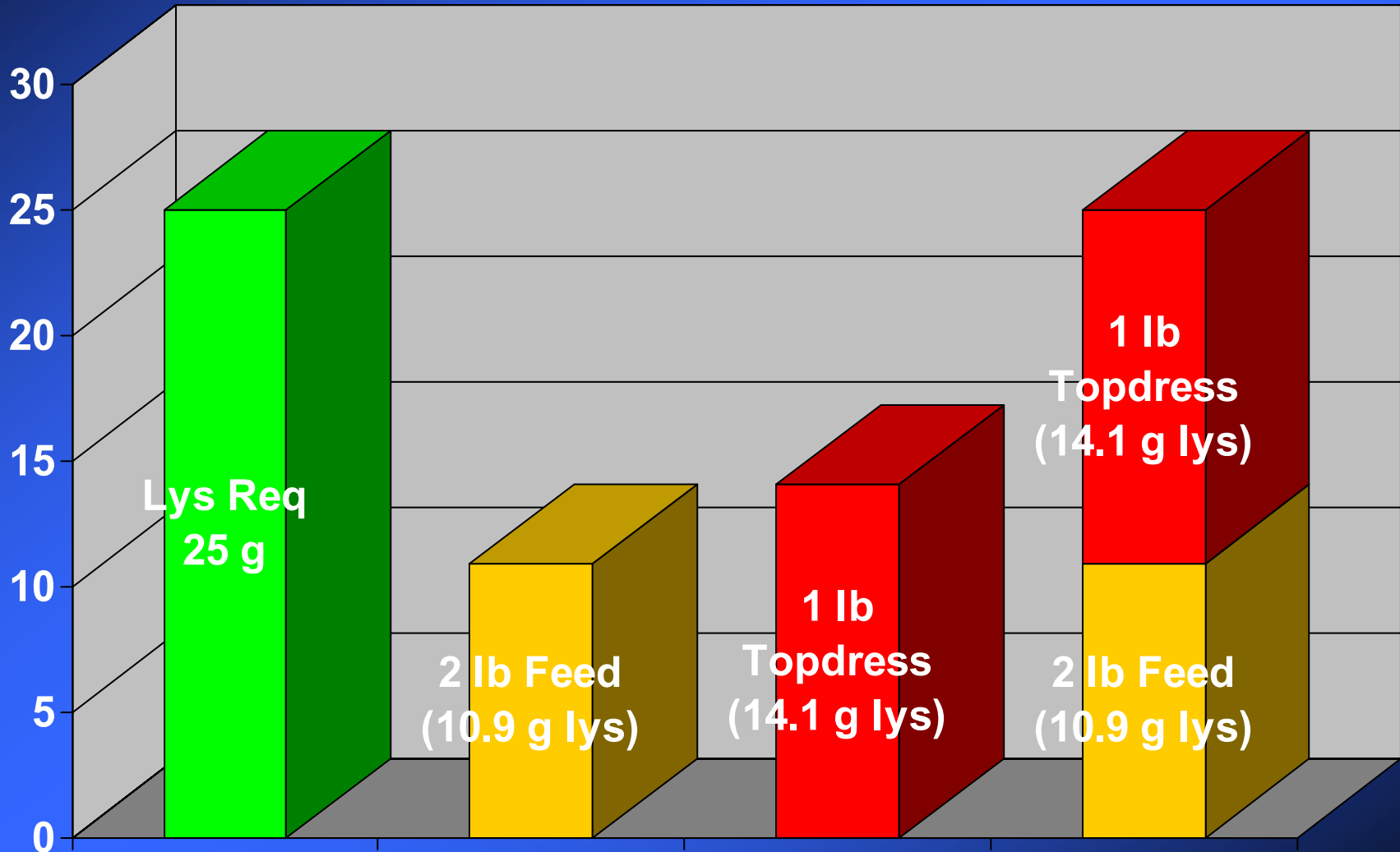
Topdress contains 32% crude protein and 2.0% lysine

- Needed – 25 grams lysine
- Feed supplies 10.9 grams
- Still Needed 14.1 grams

1 lb of Topdress supplies 9.07 grams lysine

$14.1 / 9.07 = 1.6$ lb/day Topdress needed

Using a Topdress Correctly



When to Use a Topdress?

- When feed intake is low
 - Lean genetics
 - Immune system activation
 - Environment
- When restricting feed intake
- To increase nutrient intake when
 - Holding
 - Pushing

Many Different Products



Using a Topdress

So, which one do I use?

Using a Topdress Correctly

- Many products contain Paylean
- Some cannot be fed to all species
- Use the right product for the right reason
- Use the one that works for you

When to Use a Topdress?

- To produce specific effects
 - More muscle
 - More cover or backfat
 - Increase growth rate
 - Enhance skin, hair, & muscle
 - Specific ingredients cause specific effects

Topdress

You determine the
value of a Topdress

The Value of a Topdress

Thank You