



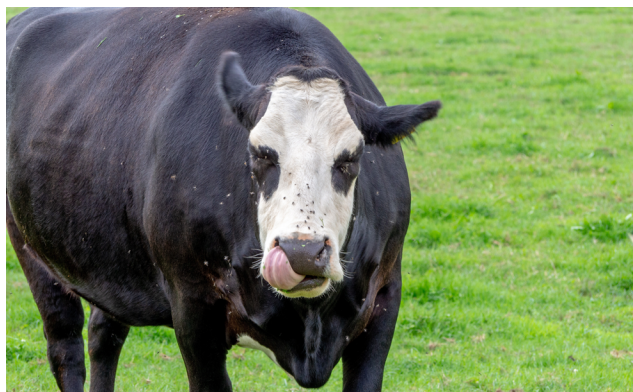
Building Your Herd: Example (Version 1)

Bull: CLOVER Herf 253



Breed: Hereford

Cow: CLOVER AngX 483



Breed: Angus Hereford Cross

Genetic Instructions for White Markings:

Bull's Traits: White Markings (FF)

Roll the Dice. Is the number:

- ___ Odd – Dominant white face and dewlap (F)
– OR –
___ Even – Dominant white face and dewlap (F)

+

Cow's Traits: White Markings (Ff)

Roll the Dice. Is the number:

- ___ Odd – Dominant white face and dewlap (F)
– OR –
___ Even – Recessive no white markings (f)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
- If your calf has the traits **FF**, it will have white markings.
- If your calf has the traits **ff**, it will be a solid color.



Building Your Herd: Pair 1 (Version 1)

Bull: CLOVER Ang B834



Photo courtesy of American Angus Association

Breed: Black Angus

Cow: CLOVER AngX 483



Breed: Angus Hereford Cross

Genetic Instructions for Color:

Bull's Traits: Black (BB)

Roll the Dice. Is the number:

- ___ Odd – Dominant black color (B)
– OR –
___ Even – Dominant black color (B)

+

Cow's Traits: Black (Bb)

Roll the Dice. Is the number:

- ___ Odd – Dominant black color (B)
– OR –
___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be Black.
- If your calf has the traits **BB**, it will be Black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)
– OR –

____ Even – Recessive no white markings (f)

+

Cow's Traits: White Markings (Ff)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)
– OR –

____ Even – Recessive no white markings (f)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
 - If your calf has the traits **FF**, it will have white markings.
 - If your calf has the traits **ff**, it will be a solid color.
-

Genetic Instructions for Horns:

Bull's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

+

Cow's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.



Building Your Herd: Pair 2 (Version 1)

Bull: CLOVER Ang B834



Breed: Black Angus

Cow: CLOVER Herf 275



Breed: Hereford

Genetic Instructions for Color:

Bull's Traits: Black (BB)

Roll the Dice. Is the number:

___ Odd – Dominant black color (B)

– OR –

___ Even – Dominant black color (B)

+

Cow's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)

– OR –

___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____

Trait from Bull;

Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be black.
- If your calf has the traits **BB**, it will be black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)
– OR –

____ Even – Recessive no white markings (f)

+

Cow's Traits: White Markings (FF)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)
– OR –

____ Even – Dominant white face and dewlap (F)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
- If your calf has the traits **FF**, it will have white markings.
- If your calf has the traits **ff**, it will be a solid color.

Genetic Instructions for Horns:

Bull's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

+

Cow's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.



Building Your Herd: Pair 3 (Version 1)

Bull: CLOVER Ang R234



Photo courtesy of Red Angus Association of America

Breed: Red Angus

Cow: CLOVER AngX 483



Breed: Angus Hereford Cross

Genetic Instructions for Color:

Bull's Traits: Black (BB)

Roll the Dice. Is the number:

___ Odd – Dominant black color (B)

– OR –

___ Even – Dominant black color (B)

+

Cow's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)

– OR –

___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____

Trait from Bull;

Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be black.
- If your calf has the traits **BB**, it will be black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)
– OR –

____ Even – Recessive no white markings (f)

+

Cow's Traits: White Markings (Ff)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)
– OR –

____ Even – Recessive no white markings (f)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
 - If your calf has the traits **FF**, it will have white markings.
 - If your calf has the traits **ff**, it will be a solid color.
-

Genetic Instructions for Horns:

Bull's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

+

Cow's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.



Building Your Herd: Pair 4 (Version 1)

Bull: CLOVER Ang R234



Breed: Red Angus

Cow: CLOVER Herf 386



Breed: Hereford

Genetic Instructions for Color:

Bull's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)
– OR –

___ Even – Recessive red color (b)

+

Cow's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)
– OR –

___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____

Trait from Bull;

Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be black.
- If your calf has the traits **BB**, it will be black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)

– OR –

____ Even – Recessive no white markings (f)

+

Cow's Traits: White Markings (FF)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)

– OR –

____ Even – Dominant white face and dewlap (F)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
- If your calf has the traits **FF**, it will have white markings.
- If your calf has the traits **ff**, it will be a solid color.

Genetic Instructions for Horns:

Bull's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)

– OR –

____ Even – Recessive no horns (h)

+

Cow's Traits: Horns (Hh)

Roll the Dice. Is the number:

____ Odd – Dominant horns (H)

– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.



Building Your Herd: Pair 5 (Version 1)

Bull: CLOVER Herf 642



Photo courtesy of Rausch Hereford

Breed: Hereford

Cow: CLOVER Ang R733



Photo courtesy of Red Angus Association of America

Breed: Red Angus

Genetic Instructions for Color:

Bull's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)

– OR –

___ Even – Recessive red color (b)

+

Cow's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)

– OR –

___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____

Trait from Bull;

Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be black.
- If your calf has the traits **BB**, it will be black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: White Markings (FF)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)
– OR –

____ Even – Dominant white face and dewlap (F)

+

Cow's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)
– OR –

____ Even – Recessive no white markings (f)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
- If your calf has the traits **FF**, it will have white markings.
- If your calf has the traits **ff**, it will be a solid color.

Genetic Instructions for Horns:

Bull's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

+

Cow's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.



Building Your Herd: Pair 6 (Version 1)

Bull: CLOVER Herf 253



Photo courtesy of Select Sires

Breed: Hereford

Cow: CLOVER Ang B426



Photo courtesy of American Angus Association

Breed: Black Angus

Genetic Instructions for Color:

Bull's Traits: Red (bb)

Roll the Dice. Is the number:

___ Odd – Recessive red color (b)

– OR –

___ Even – Recessive red color (b)

+

Cow's Traits: Black (BB)

Roll the Dice. Is the number:

___ Odd – Dominant black color (B)

– OR –

___ Even – Recessive red color (b)

=

Calf's Inherited Traits: _____

Trait from Bull;

Trait from Cow

What color is the calf? _____

- If your calf has the traits **Bb**, it will be black.
- If your calf has the traits **BB**, it will be black.
- If your calf has the traits **bb**, it will be a recessive color like red.

Genetic Instructions for White Markings:

Bull's Traits: White Markings (FF)

Roll the Dice. Is the number:

____ Odd – Dominant white face and dewlap (F)
– OR –

____ Even – Dominant white face and dewlap (F)

+

Cow's Traits: No White Markings (ff)

Roll the Dice. Is the number:

____ Odd – Recessive no white markings (f)
– OR –

____ Even – Recessive no white markings (f)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have white markings? _____

- If your calf has the traits **Ff**, it will have white markings.
- If your calf has the traits **FF**, it will have white markings.
- If your calf has the traits **ff**, it will be a solid color.

Genetic Instructions for Horns:

Bull's Traits: Horns (HH)

Roll the Dice. Is the number:

____ Odd – Dominant horns (H)
– OR –

____ Even – Dominant horns (H)

+

Cow's Traits: No Horns (Polled) (hh)

Roll the Dice. Is the number:

____ Odd – Recessive no horns (h)
– OR –

____ Even – Recessive no horns (h)

=

Calf's Inherited Traits: _____
Trait from Bull; Trait from Cow

Does the calf have horns? _____

- If your calf has the traits **Hh**, it will have horns.
- If your calf has the traits **HH**, it will have horns.
- If your calf has the traits **hh**, it will not have horns.

COLOR YOUR CALF

Let's see what your calf looks like!

Use what you learned above about your calf's color, horns, and markings to show us what your herd's first calf looks like:

