*Top of Form*

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| --- | --- | --- | --- |
| *The Basic Three Colors: Ash Red, Blue, & Brown*  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Ash Red* | *Ash Red* | *Ash Red* | *Ash Red* |
|  |  |  |  |
| *Ash Red* | *Blue* | *Ash Red carrying Blue* | *Ash Red* |
|  |  |  |  |
| *Ash Red* | *Brown* | *Ash Red carrying Brown* | *Ash Red* |
|  |  |  |  |
| *Ash Red carrying Blue* | *Ash Red* | *50% Ash Red (pure) 50% Ash Red carrying Blue* | *50% Ash Red 50% Blue* |
|  |  |  |  |
| *Ash Red carrying Blue* | *Blue* | *50% Ash Red carrying Blue 50% Blue* | *50% Ash Red 50% Blue* |
|  |  |  |  |
| *Ash Red carrying Blue* | *Brown* | *50% Ash Red carrying Brown 50% Blue carrying Brown* | *50% Ash Red 50% Blue* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Ash Red* | *50% Ash Red (pure) 50% Ash Red carrying Brown* | *50% Ash Red 50% Brown* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Blue* | *50% Blue carrying Brown 50% Ash Red carrying Blue* | *50% Ash Red 50% Brown* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Brown* | *50% Ash Red carrying Brown 50% Brown* | *50% Ash Red 50% Brown* |
|  |  |  |  |
| *\*Blue* | *Ash Red* | *Ash Red carrying Blue* | *Blue* |
|  |  |  |  |
| *Blue* | *Blue* | *Blue* | *Blue* |
|  |  |  |  |
| *Blue* | *Brown* | *Blue carrying Brown* | *Blue* |
|  |  |  |  |
| *Blue carrying Brown* | *Ash red* | *50% Ash Red carrying Blue 50% Ash Red carrying Brown* | *50% Blue 50% Brown* |
|  |  |  |  |
| *Blue carrying Brown* | *Blue* | *50% Blue (pure) 50% Blue carrying Brown* | *50% Blue 50% Brown* |
|  |  |  |  |
| *Blue carrying Brown* | *Brown* | *50% Blue carrying Brown 50% Brown* | *50% Blue 50% Brown* |
|  |  |  |  |
| *\*Brown* | *Ash Red* | *Ash Red carrying Brown* | *Brown* |
|  |  |  |  |
| *\*Brown* | *Blue* | *Blue carrying Brown* | *Brown* |
|  |  |  |  |
| *Brown* | *Brown* | *Brown* | *Brown* |
|  |  |  |  |
| ***Dilute***  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Non-Dilute* | *Dilute* | *Non-Dilute carrying Dilute* | *Non-Dilute* |
|  |  |  |  |
| *\*Dilute* | *Non-Dilute* | *Non-Dilute carrying Dilute* | *Dilute* |
|  |  |  |  |
| *Dilute* | *Dilute* | *Dilute* | *Dilute* |
|  |  |  |  |
| *Non-Dilute carrying Dilute* | *Non-Dilute* | *50% Non-Dilute 50% Non-Dilute carrying Dilute* | *50% Non-Dilute 50% Dilute* |
|  |  |  |  |
| *Non-Dilute carrying Dilute* | *Dilute* | *50% Dilute 50% Non-Dilute carrying Dilute* | *50% Non-Dilute 50% Dilute* |
|  |  |  |  |
| ***Pale***  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Non-Pale* | *Pale* | *Non-Pale carrying Pale* | *Non-Pale* |
|  |  |  |  |
| *\*Pale* | *Non-Pale* | *Non-Pale carrying Pale* | *Pale* |
|  |  |  |  |
| *Pale* | *Pale* | *Pale* | *Pale* |
|  |  |  |  |
| *Non-Pale carrying Pale* | *Non-Pale* | *50% Non-Pale 50% Non-Pale carrying Pale* | *50% Non-Pale 50% Pale* |
|  |  |  |  |
| *Non-Pale carrying Pale* | *Pale* | *50% Pale 50% Non-Pale carrying Pale* | *50% Non-Pale 50% Pale* |
|  |  |  |  |
| ***Grizzle***  *For these examples, Grizzle will include all Torts, Mottles, & Tiger Grizzles. Grizzle is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Grizzle* | *Non-Grizzle* | *50% Grizzle 50% Non-Grizzle* | *50% Grizzle 50% Non-Grizzle* |
|  |  |  |  |
| *Grizzle* | *Grizzle* | *50% Grizzle 25% Homozygous Grizzle 25% Non-Grizzle* | *50% Grizzle 25% Homozygous Grizzle 25% Non-Grizzle* |
|  |  |  |  |
| *Homozygous Grizzle* | *Non-Grizzle* | *Grizzle* | *Grizzle* |
|  |  |  |  |
| *Homozygous Grizzle* | *Grizzle* | *50% Grizzle 50% Homozygous Grizzle* | *50% Grizzle 50% Homozygous Grizzle* |
|  |  |  |  |
| ***Indigo***  *For these examples, Andalusian (Spread Indigo) may be substituted for Indigo. Indigo is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Indigo* | *Non-Indigo* | *50% Indigo 50% Non-Indigo* | *50% Indigo 50% Non-Indigo* |
|  |  |  |  |
| *Indigo* | *Indigo* | *50% Indigo 25% Homozygous Indigo 25% Non-Indigo* | *50% Indigo 25% Homozygous Indigo 25% Non-Indigo* |
|  |  |  |  |
| *Homozygous Indigo* | *Non-Indigo* | *Indigo* | *Indigo* |
|  |  |  |  |
| *Homozygous Indigo* | *Indigo* | *50% Indigo 50% Homozygous Indigo* | *50% Indigo 50% Homozygous Indigo* |
|  |  |  |  |
| ***Dominant Opal***  *Dominant Opal is not sex-linked so the colors of the parents can be reversed and the same results will occur. NOTE: Dominant Opal carries a semi-lethal gene in the Homozygous state as indicated in the examples below.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Dominant Opal* | *Non-Dominant Opal* | *50% Dominant Opal 50% Non-Dominant Opal* | *50% Dominant Opal 50% Non-Dominant Opal* |
|  |  |  |  |
| *Dominant Opal* | *Dominant Opal* | *50% Dominant Opal 25% Non-Dominant Opal 25% Homozygous Dominant Opal (These Homozygous Dominant Opals may die young or not hatch at all.)* | *50% Dominant Opal 25% Non-Dominant Opal 25% Homozygous Dominant Opal (These Homozygous Dominant Opals may die young or not hatch at all.)* |
|  |  |  |  |
| *In the very rare case where a Homozygous Dominant Opal survives to breeding age: Homozygous Dominant Opal* | *Non-Dominant Opal* | *Dominant Opal* | *Dominant Opal* |
|  |  |  |  |
| ***Recessive Opal***  *Dominant Opal is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Recessive Opal* | *Non-Recessive Opal* | *Non-Recessive Opal carrying Recessive Opal* | *Non-Recessive Opal carrying Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opal carrying Recessive Opal* | *Recessive Opal* | *50% Non-Recessive Opal carrying Recessive Opal 50% Recessive Opal* | *50% Non-Recessive Opal carrying Recessive Opal 50% Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opal carrying Recessive Opal* | *Non-Recessive Opal carrying Recessive Opal* | *50% Non-Recessive Opal carrying Recessive Opal 25% Recessive Opal 25% Non-Recessive Opal* | *50% Non-Recessive Opal carrying Recessive Opal 25% Recessive Opal 25% Non-Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opal carrying Recessive Opal* | *Non-Recessive Opal* | *75% Non-Recessive Opal 25% Non-Recessive Opal carrying Recessive Opal* | *75% Non-Recessive Opal 25% Non-Recessive Opal carrying Recessive Opal* |
|  |  |  |  |
| *Recessive Opal* | *Recessive Opal* | *Recessive Opal* | *Recessive Opal* |
|  |  |  |  |
| ***Reduced***  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *\*Reduced* | *Non-Reduced* | *Non-Reduced carrying Reduced* | *Reduced* |
|  |  |  |  |
| *Non-Reduced* | *Reduced* | *Non-Reduced carrying Reduced* | *Non-Reduced* |
|  |  |  |  |
| *Non-Reduced carrying Reduced* | *Non-Reduced* | *50% Non-Reduced carrying Reduced 50% Non-Reduced* | *50% Reduced 50% Non-Reduced* |
|  |  |  |  |
| *Non-Reduced carrying Reduced* | *Reduced* | *50% Non-Reduced carrying Reduced 50% Reduced* | *50% Reduced 50% Non-Reduced* |
|  |  |  |  |
| *Reduced* | *Reduced* | *Reduced* | *Reduced* |
|  |  |  |  |
| ***Recessive Red***  *Recessive Red is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Recessive Red* | *Non-Recessive Red* | *Non-Recessive Red carrying Recessive Red* | *Non-Recessive Red carrying Recessive Red* |
|  |  |  |  |
| *Non-Recessive Red carrying Recessive Red* | *Recessive Red* | *50% Recessive Red 50% Non-Recessive Red carrying Recessive Red* | *50% Recessive Red 50% Non-Recessive Red carrying Recessive Red* |
|  |  |  |  |
| *Non-Recessive Red carrying Recessive Red* | *Non-Recessive Red carrying Recessive Red* | *50% Non-Recessive Red carrying Recessive Red 25% Recessive Red 25% Non-Recessive Red* | *50% Non-Recessive Red carrying Recessive Red 25% Recessive Red 25% Non-Recessive Red* |
|  |  |  |  |
| *Non-Recessive Red carrying Recessive Red* | *Non-Recessive Red* | *75% Non-Recessive Red 25% Non-Recessive Red carrying Recessive Red* | *75% Non-Recessive Red 25% Non-Recessive Red carrying Recessive Red* |
|  |  |  |  |
| *Recessive Red* | *Recessive Red* | *Recessive Red* | *Recessive Red* |
|  |  |  |  |
| ***Recessive White***  *Recessive White is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Recessive White* | *Non-Recessive White* | *Non Recessive White carrying Recessive White* | *Non Recessive White carrying Recessive White* |
|  |  |  |  |
| *Non-Recessive White carrying Recessive White* | *Recessive White* | *50% Recessive White 50% Non-Recessive White carrying Recessive White* | *50% Recessive White 50% Non-Recessive White carrying Recessive White* |
|  |  |  |  |
| *Non-Recessive White carrying Recessive White* | *Non Recessive White carrying Recessive White* | *50% Non-Recessive White carrying Recessive White 25% Recessive White 25% Non-Recessive White* | *50% Non-Recessive White carrying Recessive White 25% Recessive White 25% Non-Recessive White* |
|  |  |  |  |
| *Non-Recessive White carrying Recessive White* | *Non-Recessive White* | *75% Non-Recessive White 25% Non-Recessive White carrying Recessive White* | *75% Non-Recessive White 25% Non-Recessive White carrying Recessive White* |
|  |  |  |  |
| *Recessive White* | *Recessive White* | *Recessive White* | *Recessive White* |
|  |  |  |  |
| ***Milky***  *Milky is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Milky* | *Non-Milky* | *Non-Milky carrying Milky* | *Non-Milky carrying Milky* |
|  |  |  |  |
| *Non-Milky carrying* | *Milky* | *50% Milky 50% Non-Milky carrying Milky* | *50% Milky 50% Non-Milkycarrying Milky* |
|  |  |  |  |
| *Non-Milky carrying Milky* | *Non-Milky carrying Milky* | *50% Non-Milky carrying Milky 25% Milky 25% Non-Milky* | *50% Non-Milky carrying Milky 25% Milky 25% Non-Milky* |
|  |  |  |  |
| *Non-Milky carrying Milky* | *Non-Milky* | *75% Non-Milky 25% Non-Milky carrying Milky* | *75% Non-Milky 25% Non-Milky carrying Milky* |
|  |  |  |  |
| *Milky* | *Milky* | *Milky* | *Milky* |
|  |  |  |  |
| ***Pencil***  *Pencil is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Pencil* | *Non-Pencil* | *Non-Pencil carrying Pencil* | *Non-Pencil carrying Pencil* |
|  |  |  |  |
| *Non-Pencil carrying Pencil* | *Pencil* | *50% Pencil 50% Non-Pencil carrying Pencil* | *50% Pencil 50% Non-Pencil carrying Pencil* |
|  |  |  |  |
| *Non-Pencil carrying Pencil* | *Non-Pencil carrying Pencil* | *50% Non-Pencil carrying Pencil 25% Pencil 25% Non-Pencil* | *50% Non-Pencil carrying Pencil 25% Pencil 25% Non-Pencil* |
|  |  |  |  |
| *Non-Pencil carrying Pencil* | *Non-Recessive White* | *75% Non-Pencil 25% Non-Pencil carrying Pencil* | *75% Non-Pencil 25% Non-Pencil carrying Pencil* |
|  |  |  |  |
| *Pencil* | *Pencil* | *Pencil* | *Pencil* |
|  |  |  |  |
| ***Almond***  *NOTE: Almond carries a semi-lethal gene in the Homozygous state of cocks as indicated in the examples below. These birds lack vigor, can show "bladder eyes" and other eye defects, and may not live long if they hatch at all. \* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Almond* | *Non-Almond* | *50% Almond 50% Non-Almond* | *50% Almond 50% Non-Almond* |
|  |  |  |  |
| *\*Non-Almond* | *Almond* | *Almond* | *Non-Almond* |
|  |  |  |  |
| *Almond* | *Almond* | *25% Homozygous Almond 75% Almond* | *75% Almond 25% Non-Almond* |
|  |  |  |  |
| ***Faded***  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Faded* | *Non-Faded* | *50% Faded 50% Non-Faded* | *50% Faded 50% Non-Faded* |
|  |  |  |  |
| *\*Non-Faded* | *Faded* | *Faded* | *Non-Faded* |
|  |  |  |  |
| *Faded* | *Faded* | *Faded* | *Faded* |
|  |  |  |  |
| ***Qualmond***  *\* indicates a sex-linked mating* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Qualmond* | *Non-Qualmond* | *50% Qualmond 50% Non-Qualmond* | *50% Qualmond 50% Non-Qualmond* |
|  |  |  |  |
| *\*Non-Qualmond* | *Qualmond* | *Qualmond* | *Non-Qualmond* |
|  |  |  |  |
| *Qualmond* | *Qualmond* | *Qualmond* | *Qualmond* |
|  |  |  |  |
| ***Patterns***  *The rules for patterns apply regardless of the color or modifier present. As long as one understands the order of dominance in patterns, one can easily apply the rules to their breeding program. No pattern can reproduce another pattern more dominant than itself unless bred to one.* | | | |
| *CHECK Check or T-Pattern Check cannot produce Spread unless mated to one. Checks can produce bars or barless.* |  |  | *BAR Bars cannot produce checks or Spread unless mated to one. Bars can produce barless.* |
|  | *BARLESS Barless can only produce barless when mated together.* | |  |
|  |  |  |  |
| *Spread We include Spread here separately from the other modifiers and patterns based on information we have received that Spread is technically not a pattern, but it does affect the pattern of a bird. In the matings below, Impure Spread refers to Spread birds that care masking another pattern. Pure Spread will be referred to as Homozygous Spread. Spread is not sex-linked so the colors of the parents can be reversed and the same results will occur.* | | | |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Impure Spread* | *Non-Spread* | *50% Impure Spread 50% Non-Spread* | *50% Impure Spread 50% Non-Spread* |
|  |  |  |  |
| *Impure Spread* | *Impure Spread* | *50% Impure Spread 25% Homozygous Spread 25% Non-Spread* | *50% Impure Spread 25% Homozygous Spread 25% Non-Spread* |
|  |  |  |  |
| *Homozygous Spread* | *Non-Spread* | *Impure Spread* | *Impure Spread* |
|  |  |  |  |
| *Homozygous Spread* | *Homozygous Spread* | *Homozygous Spread* | *Homozygous Spread* |
|  |  |  |  |