*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 Red50% Blue* |
|  |  |  |  |
| *Ash Red carrying Blue* | *Blue* | *50% Ash Red carrying Blue50% Blue* | *50% Ash Red50% Blue* |
|  |  |  |  |
| *Ash Red carrying Blue* | *Brown* | *50% Ash Red carrying Brown50% Blue carrying Brown* | *50% Ash Red50% Blue* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Ash Red* | *50% Ash Red (pure)50% Ash Red carrying Brown* | *50% Ash Red50% Brown* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Blue* | *50% Blue carrying Brown50% Ash Red carrying Blue* | *50% Ash Red50% Brown* |
|  |  |  |  |
| *Ash Red carrying Brown* | *Brown* | *50% Ash Red carrying Brown50% Brown* | *50% Ash Red50% 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 Blue50% Ash Red carrying Brown* | *50% Blue50% Brown* |
|  |  |  |  |
| *Blue carrying Brown* | *Blue* | *50% Blue (pure)50% Blue carrying Brown* | *50% Blue50% Brown* |
|  |  |  |  |
| *Blue carrying Brown* | *Brown* | *50% Blue carrying Brown50% Brown* | *50% Blue50% 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-Dilute50% Non-Dilute carrying Dilute* | *50% Non-Dilute50% Dilute* |
|  |  |  |  |
| *Non-Dilute carrying Dilute* | *Dilute* | *50% Dilute50% Non-Dilute carrying Dilute* | *50% Non-Dilute50% 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-Pale50% Non-Pale carrying Pale* | *50% Non-Pale50% Pale* |
|  |  |  |  |
| *Non-Pale carrying Pale* | *Pale* | *50% Pale50% Non-Pale carrying Pale* | *50% Non-Pale50% 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% Grizzle50% Non-Grizzle* | *50% Grizzle50% Non-Grizzle* |
|  |  |  |  |
| *Grizzle* | *Grizzle* | *50% Grizzle25% Homozygous Grizzle25% Non-Grizzle* | *50% Grizzle25% Homozygous Grizzle25% Non-Grizzle* |
|  |  |  |  |
| *Homozygous Grizzle* | *Non-Grizzle* | *Grizzle* | *Grizzle* |
|  |  |  |  |
| *Homozygous Grizzle* | *Grizzle* | *50% Grizzle50% Homozygous Grizzle* | *50% Grizzle50% 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% Indigo50% Non-Indigo* | *50% Indigo50% Non-Indigo* |
|  |  |  |  |
| *Indigo* | *Indigo* | *50% Indigo25% Homozygous Indigo25% Non-Indigo* | *50% Indigo25% Homozygous Indigo25% Non-Indigo* |
|  |  |  |  |
| *Homozygous Indigo* | *Non-Indigo* | *Indigo* | *Indigo* |
|  |  |  |  |
| *Homozygous Indigo* | *Indigo* | *50% Indigo50% Homozygous Indigo* | *50% Indigo50% 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 Opal50% Non-Dominant Opal* | *50% Dominant Opal50% Non-Dominant Opal* |
|  |  |  |  |
| *Dominant Opal* | *Dominant Opal* | *50% Dominant Opal25% Non-Dominant Opal25% Homozygous Dominant Opal(These Homozygous Dominant Opals may die young or not hatch at all.)* | *50% Dominant Opal25% Non-Dominant Opal25% 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 Opalcarrying Recessive Opal* | *Non-Recessive Opalcarrying Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opalcarrying Recessive Opal* | *Recessive Opal* | *50% Non-Recessive Opalcarrying Recessive Opal50% Recessive Opal* | *50% Non-Recessive Opalcarrying Recessive Opal50% Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opalcarrying Recessive Opal* | *Non-Recessive Opalcarrying Recessive Opal* | *50% Non-Recessive Opalcarrying Recessive Opal25% Recessive Opal25% Non-Recessive Opal* | *50% Non-Recessive Opalcarrying Recessive Opal25% Recessive Opal25% Non-Recessive Opal* |
|  |  |  |  |
| *Non-Recessive Opalcarrying Recessive Opal* | *Non-Recessive Opal* | *75% Non-Recessive Opal25% Non-Recessive Opalcarrying Recessive Opal* | *75% Non-Recessive Opal25% Non-Recessive Opalcarrying 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-Reducedcarrying Reduced* | *Reduced* |
|  |  |  |  |
| *Non-Reduced* | *Reduced* | *Non-Reducedcarrying Reduced* | *Non-Reduced* |
|  |  |  |  |
| *Non-Reducedcarrying Reduced* | *Non-Reduced* | *50% Non-Reducedcarrying Reduced50% Non-Reduced* | *50% Reduced50% Non-Reduced* |
|  |  |  |  |
| *Non-Reducedcarrying Reduced* | *Reduced* | *50% Non-Reducedcarrying Reduced50% Reduced* | *50% Reduced50% 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 Redcarrying Recessive Red* | *Non-Recessive Redcarrying Recessive Red* |
|  |  |  |  |
| *Non-Recessive Redcarrying Recessive Red* | *Recessive Red* | *50% Recessive Red50% Non-Recessive Redcarrying Recessive Red* | *50% Recessive Red50% Non-Recessive Redcarrying Recessive Red* |
|  |  |  |  |
| *Non-Recessive Redcarrying Recessive Red* | *Non-Recessive Redcarrying Recessive Red* | *50% Non-Recessive Redcarrying Recessive Red25% Recessive Red25% Non-Recessive Red* | *50% Non-Recessive Redcarrying Recessive Red25% Recessive Red25% Non-Recessive Red* |
|  |  |  |  |
| *Non-Recessive Redcarrying Recessive Red* | *Non-Recessive Red* | *75% Non-Recessive Red25% Non-Recessive Redcarrying Recessive Red* | *75% Non-Recessive Red25% Non-Recessive Redcarrying 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 Whitecarrying Recessive White* | *Non Recessive Whitecarrying Recessive White* |
|  |  |  |  |
| *Non-Recessive Whitecarrying Recessive White* | *Recessive White* | *50% Recessive White50% Non-Recessive Whitecarrying Recessive White* | *50% Recessive White50% Non-Recessive Whitecarrying Recessive White* |
|  |  |  |  |
| *Non-Recessive Whitecarrying Recessive White* | *Non Recessive Whitecarrying Recessive White* | *50% Non-Recessive Whitecarrying Recessive White25% Recessive White25% Non-Recessive White* | *50% Non-Recessive Whitecarrying Recessive White25% Recessive White25% Non-Recessive White* |
|  |  |  |  |
| *Non-Recessive Whitecarrying Recessive White* | *Non-Recessive White* | *75% Non-Recessive White25% Non-Recessive Whitecarrying Recessive White* | *75% Non-Recessive White25% Non-Recessive Whitecarrying 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% Milky50% Non-Milky carrying Milky* | *50% Milky50% Non-Milkycarrying Milky* |
|  |  |  |  |
| *Non-Milky carrying Milky* | *Non-Milky carrying Milky* | *50% Non-Milky carrying Milky25% Milky25% Non-Milky* | *50% Non-Milky carrying Milky25% Milky25% Non-Milky* |
|  |  |  |  |
| *Non-Milky carrying Milky* | *Non-Milky* | *75% Non-Milky25% Non-Milky carrying Milky* | *75% Non-Milky25% 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% Pencil50% Non-Pencil carrying Pencil* | *50% Pencil50% Non-Pencil carrying Pencil* |
|  |  |  |  |
| *Non-Pencil carrying Pencil* | *Non-Pencil carrying Pencil* | *50% Non-Pencil carrying Pencil25% Pencil25% Non-Pencil* | *50% Non-Pencil carrying Pencil25% Pencil25% Non-Pencil* |
|  |  |  |  |
| *Non-Pencil carrying Pencil* | *Non-Recessive White* | *75% Non-Pencil25% Non-Pencil carrying Pencil* | *75% Non-Pencil25% 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% Almond50% Non-Almond* | *50% Almond50% Non-Almond* |
|  |  |  |  |
| *\*Non-Almond* | *Almond* | *Almond* | *Non-Almond* |
|  |  |  |  |
| *Almond* | *Almond* | *25% Homozygous Almond75% Almond* | *75% Almond25% Non-Almond* |
|  |  |  |  |
| ***Faded****\* indicates a sex-linked mating*  |
| *COCK* | *HEN* | *YOUNG COCKS* | *YOUNG HENS* |
| *Faded* | *Non-Faded* | *50% Faded50% Non-Faded* | *50% Faded50% 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% Qualmond50% Non-Qualmond* | *50% Qualmond50% 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.*  |
| *CHECKCheck or T-Pattern Check cannot produce Spread unless mated to one. Checks can produce bars or barless.* |  |  | *BARBars cannot produce checks or Spread unless mated to one. Bars can produce barless.* |
|  | *BARLESSBarless can only produce barless when mated together.* |  |
|  |  |  |  |
| *SpreadWe 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 Spread50% Non-Spread* | *50% Impure Spread50% Non-Spread* |
|  |  |  |  |
| *Impure Spread* | *Impure Spread* | *50% Impure Spread25% Homozygous Spread25% Non-Spread* | *50% Impure Spread25% Homozygous Spread25% Non-Spread* |
|  |  |  |  |
| *Homozygous Spread* | *Non-Spread* | *Impure Spread* | *Impure Spread* |
|  |  |  |  |
| *Homozygous Spread* | *Homozygous Spread* | *Homozygous Spread* | *Homozygous Spread* |
|  |  |  |  |