Let P = Property, L = LoILet N = Freq X = SecentyLet $S = \widetilde{\Sigma}X$ Hence total loss Z = E[N] E[Xp] + E[N] E[XL] + Unknown Interaction Rearranging, (Z - F[Jp) - F[JL]) = Unknown Interaction Term Let Y = Z - [[sp] - [[sl], actual total GLM/Tweedic Loss Lo I / Property Prediction Then I = Interaction affected by conelated freq & conelated sevention In (T) = Sum of correlated offerts In (Y)=1+B, (Np.NL) + B2(Xp:XL) + B3 (xp. XL: Np: NL.) - RHS = 1 + B: (freq interaction) + B2 (severly int.) + B3 (Total int.)
- Achieves ln(Y) = 1 when any of N or L is zero Final Model Z= e e + e e + e + e + B2 SEV + B3 All Pure premium: 4 To split interaction, just multiply by ratio P:L