Revision of May, 1918.

Key to the Soils of the River Flood Plains Province.

- **Glacial material**
  - Drainage well established
    - Brown to yellowish brown soil
      - Light brown mottled sandy clay subsoil
        - First bottom — Aroostook
        - Second bottom — Jackson
  - Drainage poorly established
    - Black soil
      - Brown yellow gray or mottled subsoil — First bottom — Papakating
      - No subsoil — Limestone substratum — First bottom — Romeo
    - Brown to dark brown soil
      - Yellow to gray or brown subsoil
        - First bottom — Genesee
        - Substratum gravel — First bottom — Ondawa
        - Mainly from crystaline rocks — First bottom — Podunk
      - Mottled brown subsoil — Soil stiff waxy intractable — Substratum of gravel — First bottom — Griffin
      - Brown to grayish-brown soil — Mottled brown, gray and yellow subsoil, neutral to alkaline — First bottom — Eel
    - Gray to light gray soil — Light gray slightly mottled subsoil — Heavy and compact — First bottom — Saco
    - Gray to black soil
      - Black or brown subsoil — Subsoil muck or peat — Wallkill
      - Light brown to gray subsoil — Gravelly substratum — Shallow poorly defined drainage channels — Maple
    - Gray soil — Pale yellow to yellowish gray mottled subsoil — First bottom — Basher
    - Reddish to red soil — Indian red subsoil — First bottom — Barbour
- **Piedmont material**
  - Drainage well established
    - Brown soil — Reddish brown subsoil — Gravelly substratum — Second bottom — Wickham
    - Brown soil — Brown to reddish brown subsoil — Ewen
    - Gray soil — Red to mottled red and yellow or yellow and gray subsoil — Subsoil residual — Altavista
  - Drainage poorly established
    - Indian red soil — Indian red subsoil — Material from Penn soils gives dominant color — First bottom (Piedmont equivalent of Moshannon) — Bermudian
    - Brown to reddish brown soil — Reddish micaceous subsoil — First bottom — Congaree
    - Yellowish brown soil — Yellow subsoil — Greasy feel — Material largely from Manor and Chester soils — Codorus
    - Chocolate to yellow brown mottled with red soil — Gray to bluish gray subsoil — Fresh or brackish overflow — Georgetown
    - Dark bluish gray soil — Bluish gray to dark slate blue subsoil — Subject to fresh or brackish overflow — Altamaha
    - Gray soil
      - Mottled yellow, gray and red subsoil — Plastic structure — Second bottom — Roanoke
      - Gray or white to mottled gray and yellow subsoil — First bottom — Wehadkee
- **Appalachian material**
  - Drainage well established
    - Brown to reddish brown soil — Red subsoil — From sandstone, shale and quartzite material — Second bottom — Waynesboro
    - Light brown soil — Yellow subsoil — Second bottom — Holston
    - First bottom — Casa
    - Blackened? — Steel gray to drab subsoil — Second bottom — Cape Fear
  - Drainage poorly established
    - Dark brown to black soil — Light brown to dark brown subsoil
      - From granitic and gneissic rocks — First bottom — Toxaway
      - From sandstone shale and quartzite material — First bottom — Pope
    - Gray soil — Mottled yellow and gray subsoil
      - Second bottom — Tyler
      - From sandstone and shale material — First bottom — Atkins
    - Dark brown soil — Dark brown subsoil — Outwash from anthracite coal beds — First bottom — Schuylkill
    - Reddish brown to Indian red soil — Indian red subsoil — From red sandstone and shale (Upshur material) — First bottom — Moshannon
    - Black soil — Light gray to black, tough, plastic clay subsoil — Light gray impervious clay stiff stratum mottled — Second bottom — Blago
    - Brown soil — Gray or mottled grayish and yellowish subsoil or lower subsoil — First bottom — Philo
- **Appalachian and Limestone material**
  - Drainage well established — Brown soil
    - Yellowish brown subsoil — Second bottom — Elk
    - Yellowish brown to reddish or mottled subsoil — Lower subsoil mainly rounded and angular chert — Second bottom — Riverton
    - Reddish brown to red subsoil — Second bottom — Cumberland
    - Yellowish brown soil — Yellow to pale yellow subsoil with frequent gray mottling in the lower subsoil — Second bottom — Monongahela
    - Grayish-brown soil — Yellowish brown heavier subsoil — Light grayish yellow calcareous parent material — Williamsburg
  - Drainage poorly established
    - Brown soil — Yellow subsoil — First bottom — Huntington
    - Gray soil
      - Gray subsoil — Impervious clay substratum — Iron concretions — Second bottom — Robertsville
      - Mottled brown subsoil — First bottom — Holly
    - Red soil — Mottled gray and brown subsoil — Principally from Decatur material — First bottom — Abernathy
    - Black soil — Mottled yellow, drab and bluish subsoil
      - First bottom — Dunning
      - Second bottom — Bagnell
    - Light brown to brown soil — Yellowish-brown to slightly reddish brown upper subsoil — Yellow to light reddish or dull red lower subsoil — Second bottom — Lycoming
- **Appalachian Limestone and Piedmont material**
  - Drainage well established — Brown soil — Yellowish to brown subsoil — Second bottom — Birdsboro
- **Glacial-Appalachian material**
  - Drainage well established — Brown soil — Yellow subsoil — Glacial gravel substratum — Second bottom — Wheeling
  - Drainage poorly established
    - Reddish brown soil — Red to mottled reddish, brownish and yellowish subsoil — First bottom — Freneau
    - Brown soil — Indian red subsoil — Substratum red Medina sandstone — First bottom — Hamlin
    - Olive-gray soil — Mottled gray, brown and yellow subsoil — Neville
- **Loessial material**
  - Drainage well established
    - Brown soil
      - Reddish upper subsoil — Yellowish red to yellow lower subsoil — Second bottom — Lintonia
      - Yellow subsoil
        - Second bottom — Dome shaped mounds — Lighter textured and lighter colored subsoil than Lintonia — Richland
        - Mottled substratum — Second bottom — Biscoe
      - Yellow mottled with drab and brown subsoil — Iron concretions — Second bottom — Olivier
      - Brown subsoil — Second bottom and old stream valleys — Buckner
      - Brown to yellowish-brown subsoils, uniformly oxidized due to adequate drainage and aeration — Bertrand
    - Black soil
      - Gray mottled to drab subsoil — Second bottom — Calcareous — Hancock
      - Dark brown to mottled reddish brown and gray subsoil — Sticky and impervious — Chariton
    - White soil — Drab subsoil — Impervious substratum — Second bottom — Neosho
  - Drainage poorly established
    - Black soil
      - Dark gray subsoil — First bottom — Wabash
      - Dark gray to drab mottled subsoil — Noncalcareous — Second bottom — Bremer
      - Brown to yellow subsoil faintly mottled with gray — Coarser textured than soil — Lime concretions — Second bottom — Iberia
      - Brown to light brown subsoil — Coarser textured than soil — First bottom — Cass
    - Brown soil
      - Brown to dark brown subsoil — First bottom
        - Vicksburg
        - Subsoil mottled — Yazoo
      - Brown to yellowish-brown subsurface — Bluish-gray, yellow and brown subsoil — Stoddard
      - Gray subsoil — First bottom — Collins
      - Yellow to yellowish brown subsoil — Coarser textured than soil — First bottom — Sarpy
      - Yellowish brown loamy silt soil — Mottled drab, brown and yellow lower subsoil, iron concretions — Dogwood
      - Grayish brown to dark grayish brown soil, finely granular, loose & friable, uniform to 36" — Substratum reddish material — Ray
      - Salmon red or pinkish red subsoil — First bottom — Portland
- **Loessial and Coastal Plain material**
  - Gray soil — Gray subsoil — Heavy tenacious waxy clay — Iron concretions — Second bottom — Calhoun
  - Dark gray mottled soil — Drab blue and yellow subsoil — First bottom — Sharkey
  - White soil — White subsoil — First bottom — Waverly
  - Gray soil mottled with yellowish-brown spots — Heavy mottled clay subsoil — Robinson
  - Drainage well established — Brown soil — Yellow or yellowish brown subsoil — Second bottom (Island-like ridges in first bottom) — Boeuf
- **Coastal Plain material**
  - Drainage well established
    - Black soil — Black or dark drab to yellowish brown subsoil — Highly calcareous — Second bottom (Terrace equivalent of Trinity) — Bell
    - Yellow soil — Yellow subsoil — Outwash from Lafayette and Port Hudson — St. Catherine
    - Yellow subsoil — Calcareous — Second bottom — Lewisville
    - Brown soil — Reddish brown to red subsoil — Second bottom — Some areas include Piedmont Appalachian material — Cahaba
    - Reddish brown soil — Red to reddish brown subsoil — Gravel substratum — Second bottom — Amite
    - Gray soil
      - Gray to mottled red, yellow and gray subsoil — Plastic and impervious — Second bottom — Leaf
      - Yellowish to pinkish mottled subsoil — Hoffman material — Second bottom — Augusta
      - Brown to black subsoil — Mainly Trinity material — Soil highly calcareous — First bottom — Catalpa
      - Red subsoil — Friable structure — Second bottom — Chattahoochee
    - Ashy-gray to ashy-black soil — Ashy-gray to black subsoil — Stiff, non-calcareous — Second bottom — Irving
    - Dark brown to black soil — Chocolate-brown or chocolate-red subsoil — First bottom — Pecos
    - Black soil
      - Black subsoil (Houston material) — First bottom — Trinity
      - Mottled gray and yellow subsoil
        - First bottom — Johnston
        - Second bottom — Okenee
      - Red subsoil (Miller material) — First bottom — Pledger
  - Drainage poorly established
    - Dark gray soil — Mottled gray and yellow subsoil — Impervious mottled gray substratum
      - First bottom — Chastain
      - Second bottom — Myatt
    - Gray soil — Yellow to mottled gray and yellow subsoil — Second bottom — Kalmia
    - Light brown soil — Yellow subsoil mottled with gray — First bottom — Thompson
    - Brown soil — Light brown subsoil — Derived from Lamar material — First bottom — Franklin
    - Reddish brown soil — Predominantly reddish subsoil — Locally mixed colors from Orangeburg, Susquehanna and Greenville material — First bottom — Hannahatchee
    - Dark brown soil — Mottled brown and gray subsoil — First bottom — Ochlockonee
    - White soil — Mottled white subsoil — Impervious — First bottom — Bibb
- **Residual Prairie material**
  - Drainage well established
    - Black soil
      - Chocolate red subsoil — Material from Red Beds — Second bottom — Kay
      - Black to brownish calcareous subsoil — First bottom — Frio
      - Brown subsoil — Terrace and colluvial slopes — La Crosse
      - Chocolate red subsoil — Calcareous, and contains other soluble salts — First bottom — Arno
    - Chocolate red soil
      - Chocolate reddish to grayish subsoil — Subsoil lighter textured than soil — Material from Red Beds
        - First bottom — Yahola
        - Second bottom — Reinach
      - Dark chocolate red subsoil — Highly calcareous — Material from Red Beds — First bottom — Miller
      - Dark brown to black subsoil — Material from Red Beds — Second bottom — McLain
      - Chocolate brown to salmon colored subsoil — Material partly from Red Beds — First bottom — Sowoke
    - Dark brown soil
      - Red subsoil — Material from Red Beds — Second bottom — Bastrop
      - First bottom — Portland
    - Brown soil
      - Brown subsoil — Stiff compact heavy clay
        - First bottom — Laredo (struck)
        - Second bottom
          - Calcareous — Laredo
          - Non-calcareous — Calumet
      - Slight chocolate brown to salmon colored subsoil — Lower subsoil coarser textured material partly from Red Beds — First bottom — Pulaski
      - Light brown subsoil
        - First bottom — Verdigris
        - Second bottom — Calcareous — Austin
    - Gray soil
      - Chocolate red subsoil — Material from Red Beds — Second bottom — Teller
      - Mottled yellow, gray and red subsoil — Plastic structure — Second bottom — Muskogee
      - Gravelly red clay soil — Second bottom — Travis
      - Light brown subsoil — Second bottom — Blanco
      - First bottom — Red in substratum — Perry
    - Brown to reddish-brown soil — Yellowish or reddish subsurface — Red or sandy clay subsoil — Yellowish-red or reddish-yellow clay substratum — Second bottom — Milam
    - Chocolate-brown to chocolate reddish-brown soil — Chocolate-red friable subsoil — Lower content of lime than Bastrop — Wichita
  - Drainage poorly established
    - Black soil
      - Gray subsoil — Highly calcareous — Intractable material
        - Substratum heavy clay — Cameron
        - Substratum gray fine sand — Rio Grande
      - Black subsoil — Soil friable — Limestone material — First bottom — Auglaize
    - Dark gray to black soil — Black or drab faintly mottled with rusty brown subsoil
      - First bottom — Osage
      - Second bottom — Brewer
    - Gray soil — Yellowish brown calcareous subsoil — First bottom — Uvalde
    - Red soil (Miller material) — Mottled drab subsoil — Bluish brownish plastic subsoil (Sharkey material) — First bottom — Buxin
    - Mottled light gray or light bluish-gray and pale yellow subsoils.
    - Mottled light bluish-gray, yellow, or yellowish-brown subsoils. Often compact at 30 to 40 inches. Friable.
    - Compact lower subsoil — Wrightsville