## AGE 222

Introduction to Farm Machinery Dr. O. U. Dairo















- Chain drive consist of endless chain whose links are designed to engage the tooth of a heeled sprocket
- Chain
- Sprocket
- Lubrication is essential
- Avoid excessive tension
- No creep
- Distance not restricted



## Hydraulic system

- Method of transmitting motion through a fluid medium from a power source to a machine or component
- Allows transmission to a remote or inaccessible sections of a machine
- Makes it easier to convert rotary motion to other forms of motion
- Basic components are pump, actuator, connector, valves, sump, fluid, filters, lines, couplers.





Tractor Implement Control Systems
<ul> <li>Nudging</li> <li>Implements control by hand lever at side of operator by pushing forward and back to neutral position for lifting and keeping in position.</li> <li>Auto-position</li> <li>Allows selection of predetermined position of implement by positioning the hand lever control. The position is maintained for the implement during operation regardless of leakages or obstructions</li> </ul>
<ul> <li>Auto-Draft</li> <li>Allows a selection of pre-determined draft or force required by an implement by a position on the lever control. A sensing device usually attached to the link system maintains the draft regardless of obstruction by varying the depth of penetration if used in tillage practices</li> </ul>