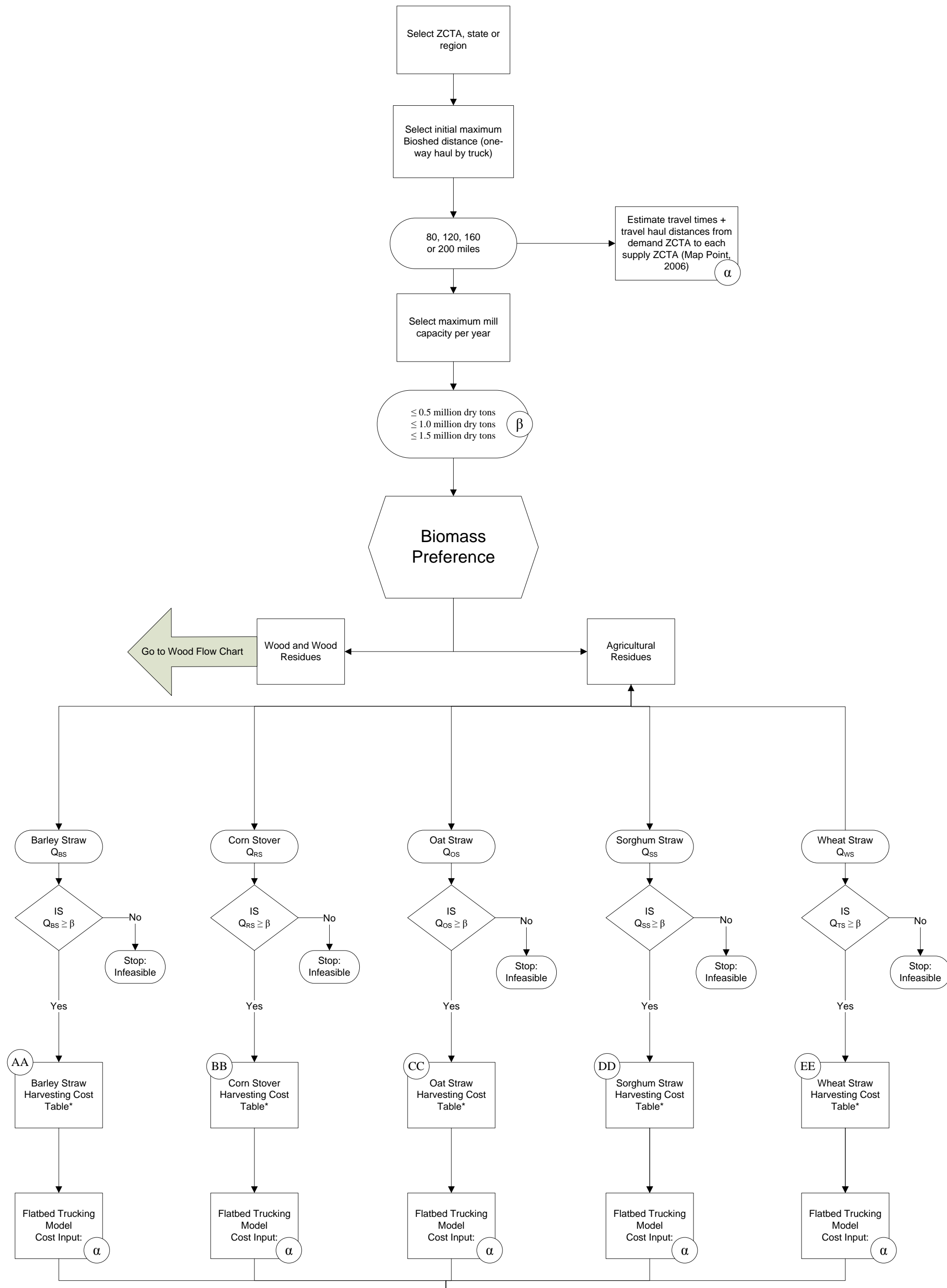


I. BIOMASS QUANTITY:
Resolution = ZCTA
Unit of measure = dry tons
Source:
NASS data

II. HARVESTING COSTS:
Resolution = County
Unit of measure = \$ / dry ton
Source:
Equation from Literature

III. TRANSPORTATION COSTS:
Resolution = ZCTA to ZCTA
Unit of measure = \$ / dry ton
Source:
BioSAT Trucking Model



ESTIMATE TOTAL COSTS, ATC, MC; DISPLAY MC (SUPPLY) CURVE; DISPLAY BIOSHED

Estimate „BIOMASS QTY“ ¹ each ZCTA

Estimate „CUMULATIVE Q“ ² for all ZCTAs in Bioshed (Retain Cumulative Q. for each ZCTA)

No „RESOURCE COST“ ³ G next step

*Estimate „HARVESTING COST“ ⁴ T for each ZCTA (\$ / dry ton * dry tons in STEP)

Estimate „TRUCKING COST“ ⁵ from each ZCTA in STEP to the demand ZCTA (\$ / dry ton * dry tons * # of hauls)

Estimate „TOTAL COST“ ⁶ f each ZCTA

Estimate cumulative „TOTAL COST“ for each ZCTA (e.g., ZCTA 11111 + ZCTA 11112 + + ZCTA 22222)

Estimate „AVERAGE TOTAL COST“ (ATC) for each ZCTA (Retain value for Display)

Sort ZCTAs in STEP in ⁸ pending order

Estimate ΔQ (change in quantity between cumulative quantities) + ΔTC (change in total cost STEP)

* ignore STEP if ag residue retains ZCTA ⁴

Estimate Marginal Cost Curve ¹⁰ = Producers Supply Curve, e.g.,

ZCTA	Q	ATC
11111	50	\$ 23 / ton
11112	65	\$ 23.10 / ton
11113	90	\$ 23.50 / ton
...
22222	1,000,000	\$ 101.10 / ton

Plot MC Curve ¹¹

Display Table of Costs + Quantities by ZCTA

Display Picture of Bioshed ¹³

