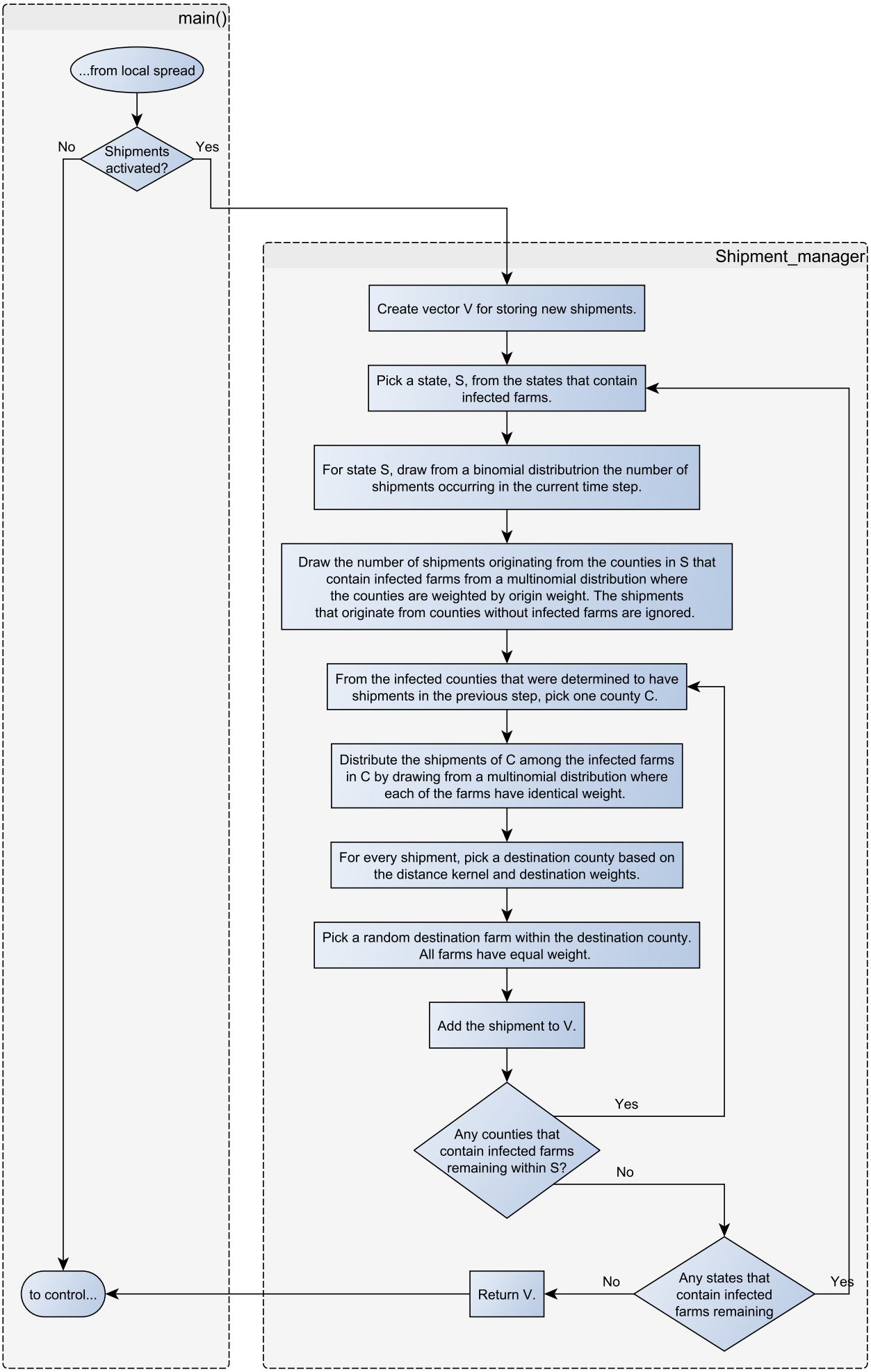
main()
...from local spread
Shipments activated?
No
Yes
to control...
Shipment_manager
Create vector V for storing new shipments.
Pick a state, S, from the states that contain infected farms.
For state S, draw from a binomial distributrion the number of shipments occurring in the current time step.
Draw the number of shipments originating from the counties in S that contain infected farms from a multinomial distribution where the counties are weighted by origin weight. The shipments that originate from counties without infected farms are ignored.
From the infected counties that were determined to have shipments in the previous step, pick one county C.
Distribute the shipments of C among the infected farms in C by drawing from a multinomial distribution where each of the farms have identical weight.
For every shipment, pick a destination county based on the distance kernel and destination weights.
Pick a random destination farm within the destination county. All farms have equal weight.
Add the shipment to V.
Any counties that contain infected farms remaining within S?
Yes
No
Any states that contain infected farms remaining
No
Yes
Return V.