

LOCATING MILK SURPLUS POTENTIAL AREAS OF VIDARBHA REGION USING GIS

Sources:

1. Census of India, 2001
2. Livestock Census, 2003, Govt. of Maharashtra
3. Statistical Handbook, Govt. of Maharashtra
4. Animal Husbandry Report 2003, Dept. of Animal Husbandry, Govt. of Maharashtra

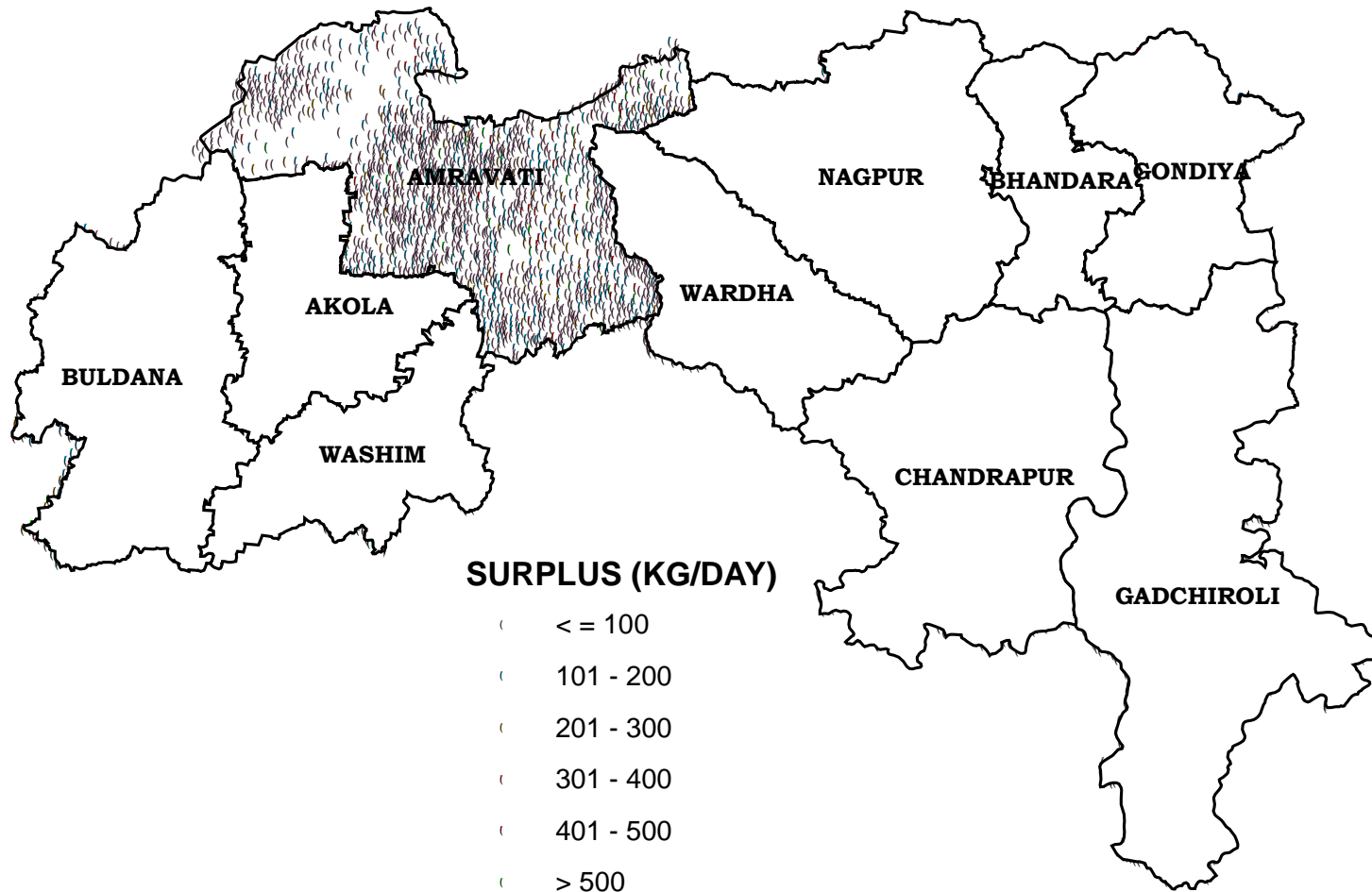


EXHIBIT-1: Village wise milk surplus classification

Note:

1. Village level bovine data not available from Govt. of Maharashtra for Yavatmal District hence excluded.
2. Surplus calculated on basis of estimated milk yield of in-milk bovine animal & overall surplus as a % of production as provided by Dept.of Animal Husbandry, Govt.of Maharashtra.
3. Village names as given in Livestock Census 2003, were matched manually with that of Census 2001, some remained unmatched.

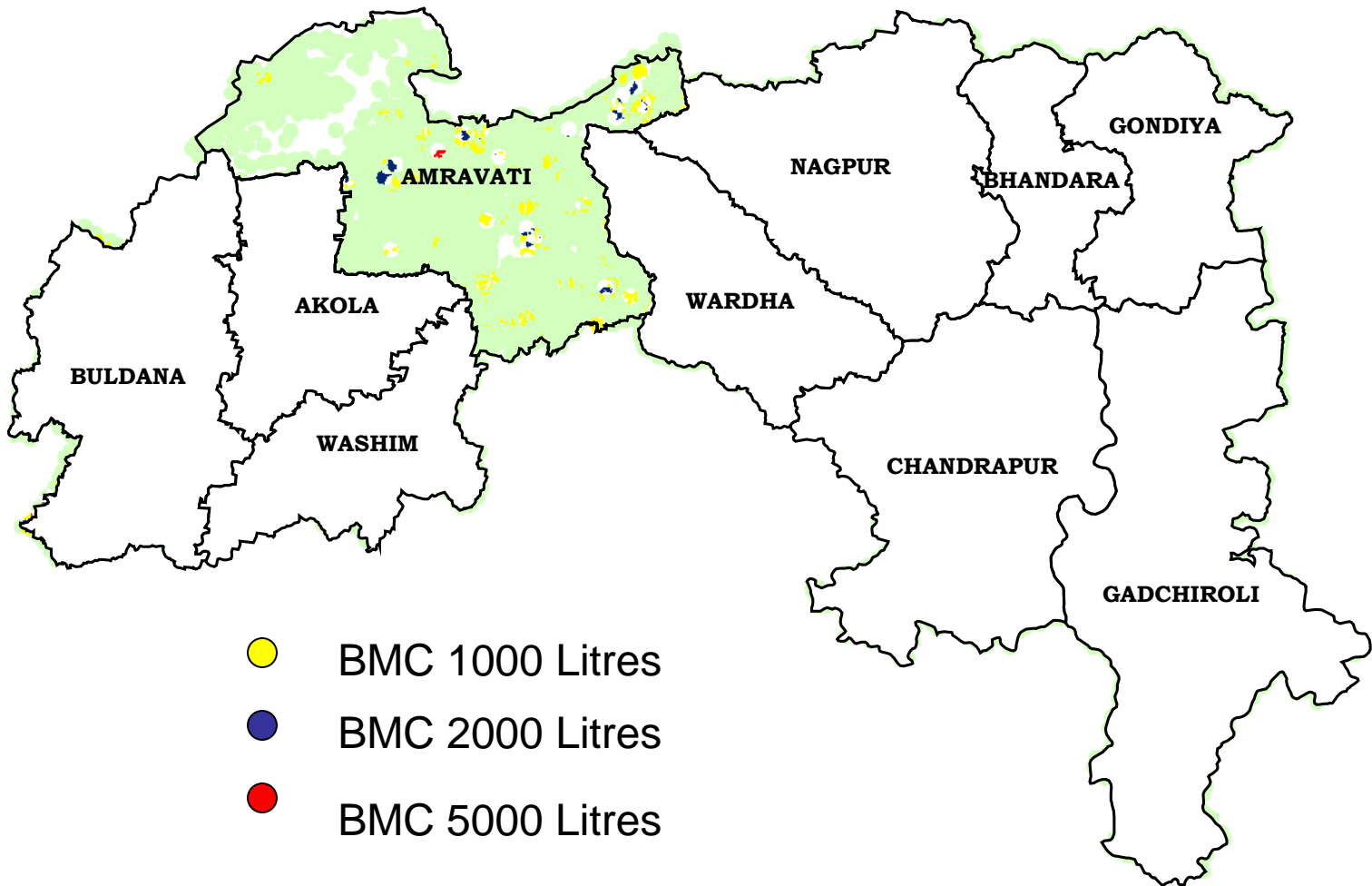


EXHIBIT-2: Possible Bulk Milk Cooler locations

Note:

1. Assuming that the bulk cooler is located in such a way that it serves all villages within a radius of 3 KM. Further the COMBINED SURPLUS ranges for these villages are 750-1000 ltr for BMC 1000 Ltr, 1500-2000 ltr for BMC 2000 Ltr and 3750-5000 ltr for BMC 5000 ltr (assuming capacity utilisation of atleast 75% would be required for a viable unit)
2. First hand view provided through published data, needs to be verified on ground.
3. Used Focal Function (Radial Basis/overlapping) method of ARCGIS

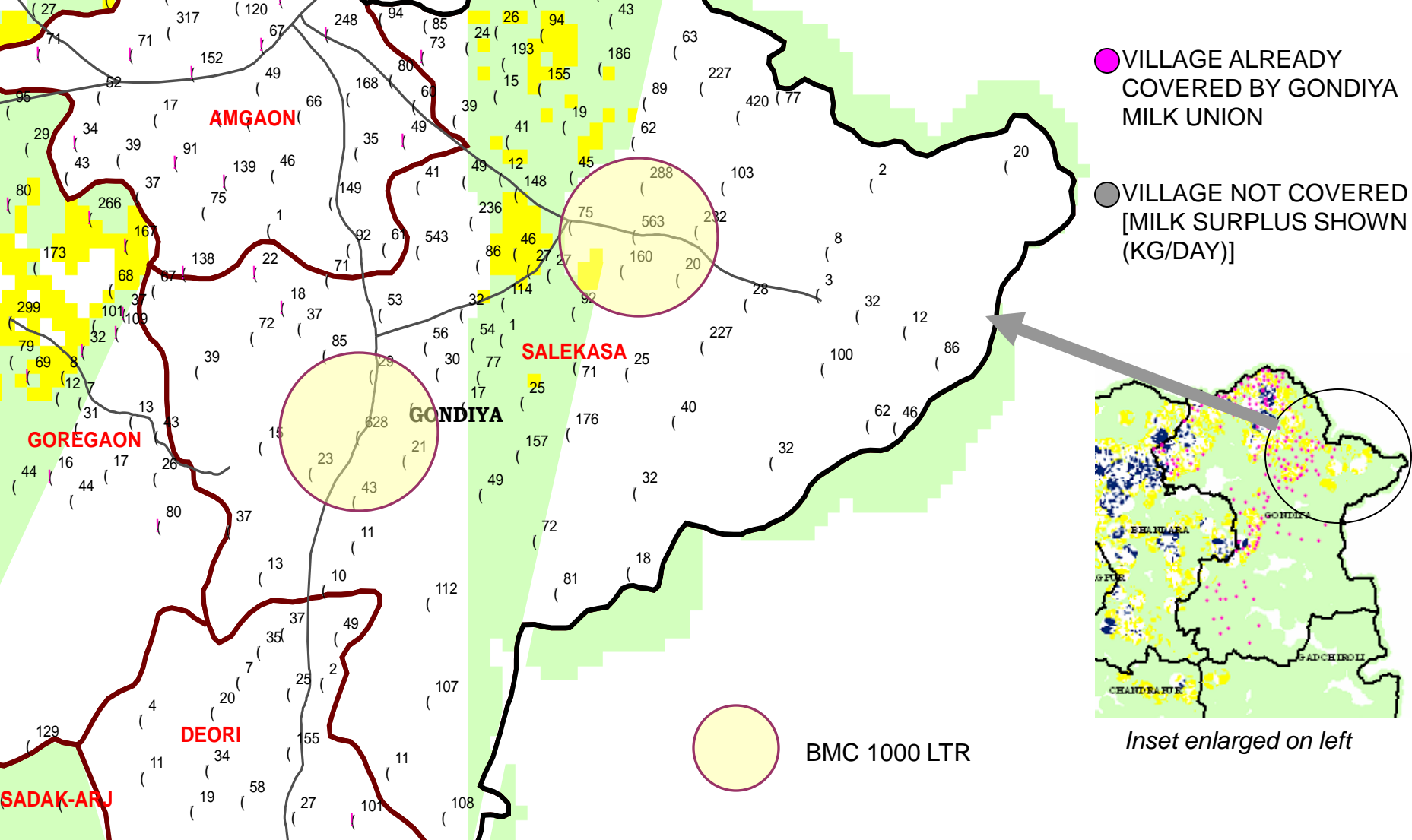


EXHIBIT-3: Finding areas with potential but not covered by Milk Union

Most of the districts in the region have some co-op dairy structures, which have not covered certain potential areas, as shown in the case of Gondiya Milk Union above. There is a scope of adding 2 BMC each of 1000 Ltrs in the area encircled. Both the places have road connectivity. Many such locations can similarly be identified.