CLAIMS

[Claim 1]

A delivery support apparatus comprising:

a product information storage unit that stores a store stock amount and a store sales amount trend for each store and each product sold in the store;

a delivery threshold storage unit that stores a first threshold related to the store stock amount and a second threshold larger than the first threshold for each product;

a first stock amount prediction unit that calculates a predicted value of the store stock amount after a predetermined period for each product based on information stored in the product information storage unit, for one store;

a first candidate extraction unit that extracts a product of which the store stock amount related to the one store is less than the first threshold as a first delivery candidate product;

a second candidate extraction unit that extracts a product of which a predicted value of the store stock amount related to the one store is less than the second threshold as a second delivery candidate product; and

a delivery unit that performs delivery arrangement processing of delivering the first delivery candidate

product and the second delivery candidate product to the one store using one vehicle.

[Claim 2]

The delivery support apparatus according to claim 1, comprising:

a second stock amount prediction unit that calculates a predicted value of the store stock amount after a predetermined period for each product based on information stored in the product information storage unit, for another store; and

a third candidate extraction unit that extracts, as a third delivery candidate product, a product for which a predicted value of the store stock amount related to another store is less than the second threshold, wherein

the delivery unit performs delivery arrangement processing of delivering the third delivery candidate product to another store using the one vehicle.

[Claim 3]

The delivery support apparatus according to claim 2, comprising:

a neighboring store storage unit that stores store grouping information obtained by grouping the stores based on a predetermined criterion including that delivery routes are the same or that locations are within a predetermined distance, wherein

the second stock amount prediction unit calculates a predicted value of the store stock amount for another store belonging to the same group as the one store in the store grouping information.

[Claim 4]

A delivery support method performed in a computer which includes a product information storage unit that stores a store stock amount and a store sales amount trend for each store and each product sold in the store, and a delivery threshold storage unit that stores a first threshold related to the store stock amount and a second threshold larger than the first threshold for each product, the delivery support method comprising:

a step of causing a first stock amount prediction unit to calculate a predicted value of the store stock amount after a predetermined period for each product based on information stored in the product information storage unit, for one store;

a step of causing a first candidate extraction unit to extract a product of which the store stock amount related to the one store is less than the first threshold as a first delivery candidate product;

a step of causing a second candidate extraction unit to extract a product of which a predicted value of the store stock amount related to the one store is less than

the second threshold as a second delivery candidate product; and

a step of causing a delivery unit to perform delivery arrangement processing of delivering the first delivery candidate product and the second delivery candidate product to the one store using one vehicle.

[Claim 5]

The delivery support method according to claim 4, comprising:

a step of causing a second stock amount prediction unit to calculate a predicted value of the store stock amount after a predetermined period for each product based on information stored in the product information storage unit, for another store; and

a step of causing a third candidate extraction unit to extract, as a third delivery candidate product, a product for which a predicted value of the store stock amount related to another store is less than the second threshold, wherein

the delivery unit performs delivery arrangement processing of delivering the third delivery candidate product to another store using the one vehicle.

[Claim 6]

The delivery support method according to claim 5, wherein

the computer includes a neighboring store storage unit that stores store grouping information obtained by grouping the stores based on a predetermined criterion including that delivery routes are the same or that locations are within a predetermined distance, and

the second stock amount prediction unit calculates a predicted value of the store stock amount for another store belonging to the same group as the one store in the store grouping information.

[Claim 7]

A delivery support program for causing a computer to execute the method according to any one of claims 4 to 6.